Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

ROUTED TO: Water Rights

TOWNSHIP!
RANGE-SECTION: 25/44E-3 6c

CONDITIONS ATTACHED? [Hyes [] no REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwant

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	ection				Dat	e <u>Decemb</u>	er 15, 2	009	
FROM	:	Grou	nd Water/	Hydrology	Section		ael Zwart		_			
SUBJE	ECT:	Appli	ication G-	17280			ewer's Name persedes re	eview of		Date of Re	view(s)	
OAR 69 welfare, to deter	90-310-1 safety a mine wh	30 (1) ind heal ether the	The Depart th as descr e presumpt	ibed in ORS ion is establ	presume the S 537.525. Iished. OA	at a propos Departmen R 690-310-	ed groundw t staff reviev 140 allows t	w ground wat the proposed	ensure the prese er applications use be modified icies in place a	ervation of under OA	of the put IR 690-3 tioned to	10-140 meet
A. <u>GE</u>	NERAL	INFO	RMATI	<u>ON</u> : A	applicant's	Name:	Wallowa	County		County:_	Wallov	v <u>a</u>
Al.			ek(s) <u>0.6</u> a River			well		Grande Re	onde			_ Basin,
A2.	Propose	ed use:	_ Co	mmercial (bottling)	Seas	sonality:	Year-roun	d			
Well 1 2	Log WALI	id	Applicant Well #	z's Pr	oposed quifer*	Propos Rate(ct	ed (T	Location (/R-S QQ-Q) (4E-3 SW-N)	2250' 1	n, metes and N, 1200' E S, 148' E	and boun	r S 36
3 4 5						-						
	ım, CRB,	Bedrock	(
Well	Well Elev ft msl	First Water ft bls	I II III	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	3695	506	-39.3	3/17/92	620	0-37	0-37	None	None	300+		Air
				_								
Use data	from app	lication	for proposed	i wells.								
A4.	Commo	ents: A	pplication	reports tha	ıt artesia <u>n</u>	flow is uno	controlled.					
											_	
A5. 🛚	manage (Not all	ment of basin r ents:	ground waules contai	nter hydraul n such prov	ically conn isions.)	ected to sur	face water	□ are, or ⊠	o the developm are not, activ	ated by th	is applic	and/or ation.
A6. 🗌	Name o	# of admin	istrative ar	ea:,		,	, ta	ap(s) an aquif	er limited by an	administ	rative res	

Version: 08/15/2003

RO	UN	D WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 4	00-010, 410-0070										
]	Bas	ed upon available data, I have determined that ground water* for the proposed use:											
ć	a.	is over appropriated, is not over appropriated, or is cannot be determined period of the proposed use. * This finding is limited to the ground water portion determination as prescribed in OAR 690-310-130;											
1	0.	will not or will likely be available in the amounts requested without injury to is limited to the ground water portion of the injury determination as presented.											
(c.	will not or will likely to be available within the capacity of the ground water	resource; or										
(d.	 will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource: The permit should contain condition #(s)											
	a.	Condition to allow ground water production from no deeper than	ft. below land surface;										
I	b.	Condition to allow ground water production from no shallower than	ft. below land surface;										
(Э.	Condition to allow ground water production only from the water reservoir between approximately ft. and ft. below	y land surface;										
		occur with this use and without reconstructing are cited below. Without reconstrustion is filed with the Depa Water Section. Describe injury —as related to water availability—that is likely to occur without we senior water rights, not within the capacity of the resource, etc):	artment and approved by the Groun										
1	nea	ound water availability remarks: <u>The basalt aquifer is not extensively developed</u> rby basalt wells with long-term water-level records. However, Columbia River F rly to development and Condition 7N is typically recommended for permits prop	Basalt aquifers often respond										
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-													

Application G-17280 continued

Date: December 15, 2009

Well		Aquifer or Proposed	Aquifer			Confined	i	J	Unconfined	
1	Basai	t of the Columbia River Basali	Group							
Davis fo		The second secon				a me	11 :	- 6		
Dasis 10	raquii	er confinement evaluation: <u>B</u>	asa <u>it aquiiei</u>	s are typi	carry continue	<u>u. 1111</u>	s well i	s nowing a	ir tesian.	
			_			_				
				annaatian	with aurface	water			1	
:00 00 0.	10 (2)	(2). Evaluation of distance to a	ad bridgerilie e							
		(3): Evaluation of distance to, as								
horizon	tal dist	ance less than 1/4 mile from a sur	face water soi	arce that p	roduce water	from ar	n uncon	nfined aquif	er shall be	
horizon assume	tal dist d to be	ance less than ¼ mile from a sur hydraulically connected to the si	face water soi	arce that p	roduce water	from ar	n uncon	nfined aquif	er shall be	mile
horizon assume	tal dist d to be	ance less than 1/4 mile from a sur	face water soi	arce that p	roduce water	from ar	n uncon	nfined aquif	er shall be	mile
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horizon assume	tal dist d to be evalua	ance less than ¼ mile from a sur hydraulically connected to the si	face water sourface water s	ource. Inc	roduce water lude in this to	from ar	stream	nfined aquifus located b	er shall be eyond one	al for
horizon assume that are	tal dist d to be	ance less than ¼ mile from a sur hydraulically connected to the si ted for PSI.	face water so arface water s	ource. Inc	roduce water	from arable any	stream	nfined aquifus located b ically	er shall be eyond one	al for
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Well	SW #	Well < 1/4 mile?	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?
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				_			_			

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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: _	<u>This section</u>	n does not a	pply.	 	 	

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.

	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May_	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS			_									
Interfere	ence CFS	_											
	outed Well												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	<u></u>	%	%	%	%	%	%	%	%	%	_ %	%	<u>%</u>
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q					_								
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
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(A) = To	tal Interf.		_										_
	% Nat. Q	·	_		_								
	% Nat. Q												
(D) = (A	1) > (C)	V	1	√	1	4	<u>√</u>	√	1	1	4	1	1
	/ 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.

		Basis for impact evaluation: This section likely applies, but it is not known where the basalt aquifer is exposed in the
690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Rights Section. ✓ If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i. ✓ The permit should contain condition (s) — 71 ii. ☐ The permit should contain special condition(s) as indicated in "Remarks" below; SW / GW Remarks and Conditions SW / GW Remarks and Conditions References Used: Local well logs; local reviews; prior experience with alluvial and CRB aguifers; regional geologic		bed of the river. Also, the Hunt/Wozniak model is not well suited for use with deep basalt aquifers.
690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Rights Section. ✓ If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i. ✓ The permit should contain condition (s) — 71 ii. ☐ The permit should contain special condition(s) as indicated in "Remarks" below; SW / GW Remarks and Conditions SW / GW Remarks and Conditions References Used: Local well logs; local reviews; prior experience with alluvial and CRB aguifers; regional geologic		
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under this permit can be regulated if it is found to substantially interfere with surface water: i.).	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the V Rights Section.
ii. The permit should contain special condition(s) as indicated in "Remarks" below; SW/GW Remarks and Conditions SW/GW Remarks and Conditions References Used: Local well logs; local reviews; prior experience with alluvial and CRB aquifers; regional geologic		under this permit can be regulated if it is found to substantially interfere with surface water:
References Used: Local well logs; local reviews; prior experience with alluvial and CRB aquifers; regional geologic		ii. The permit should contain special condition(s) as indicated in "Remarks" below;
References Used: Local well logs; local reviews; prior experience with alluvial and CRB aquifers; regional geologic		
	S	W / GW Remarks and Conditions
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Date: December 15, 2009

Application G-17280 _____continued

Version: 08/15/2003

Applica	ation G- <u>17280</u>	co	ontinued		Date: December 1	5, 2009
D. <u>W</u>	ELL CONSTR	UCTION, (OAR 690-200			
D۱.	Well #:	1	_ Logid:	WALL 663		
D2.	a. review b. field i c. report	v of the well l nspection by t of CWRE			pased upon:	:
D3.	b. comm c. permi d. permi	tutes a health ningles water to ts the loss of a ts the de-wate	deficiency: threat under Division from more than one g artesian head; ering of one or more	ground water reserve	oirs;	
D4.	as follows: "T	<u>he water is d</u>	deficiency is describ irected towards a lo the artesian flow.	ow area on the prop	The application describes the perty." This indicates that the	control of artesian flow ne well owner has not
D5.	THE WELL	_	was, or was not original construction I don't know if it me	or most recent mod		the time of
D6.					ance of the permit until eviden on and the Ground Water Secti	
THIS	SECTION TO	BE COME	PLETED BY ENF	ORCEMENT PE	ERSONNEL	
D7.	Well construct	ion deficiency	has been corrected	by the following act	ions:	
	(Enfo	rcement Secti	on Signature)			, 200
D8. [ction (attach well re	econstruction logs t	o this page).	

WATER RESOURCES DEPARTMENT

МЕМО	December 15, 200 9
TO: FROM: SUBJECT:	Application G- 17280 GW: Mike Zwart (Reviewer's Name) Scenic Waterway Interference Evaluation
YES	The source of appropriation is within or above a Scenic Waterway
YES NO	Use the Scenic Waterway condition (Condition 7J)
inter	ORS 390.835, the Ground Water Section is able to calculate ground water ference with surface water that contributes to a Scenic Waterway. The lated interference is distributed below.
interi the I that	ORS 390.835, the Ground Water Section is unable to calculate ground water ference with surface water that contributes to a scenic waterway; therefore, Department is unable to find that there is a preponderance of evidence the proposed use will measurably reduce the surface water flows stary to maintain the free-flowing character of a scenic waterway.

DISTRIBUTION OF INTERFERENCE

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in Grande Reade Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
										_	

