## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights So	ection				Date	e July 23,	2009		
FROM	:	Grour	nd Water/I	Hydrology	Section _		ael Zwart					
SUBJE	ECT:	Appli	cation G	17213			iewer's Name persedes ro	eview of		Date of Re	view(s)	
OAR 69 welfare, to deter	<b>90-310-1</b> , <i>safety a</i> mine who	30 (1) 7 nd healt ether the	The Departs th as describe presumpt	bed in ORS	oresume the 537.525. Iished. OA	at a propos Departmen R 690-310-	sed groundy t staff revie -140 allows	w ground wat the proposed	ensure the present applications use be modified icies in place a	servation of under OA	of the put AR 690-3 itioned to	10-140 meet
<b>A.</b> <u>GE</u>	NERAL	INFO	RMATIC	<u><b>N</b></u> : A	applicant's	Name:	Bert and	Terri Siddo	way (	County:	Baker	
A1.	Applica	ant(s) se	ek(s) <u>3.3</u> 4	cfs fro	m <u>one</u>	well	(s) in the					_Basin,
	]	Burnt R	liver			subb	oasin Q	uad Map: <b>D</b>	urkee			
A2. A3.									o October 31 d wells as such	under lo	gid):	
Wel 1	Log	id	Applicant s Well #	PI	oposed quifer*	Propos Rate(ct		Location T/R-S QQ-Q)		n, metes a N, 1200' E		
1	Propo	sed	1	В	edrock	3.342	2 11S/	43E-19 NE-N	NE 580' S	5, 310' W f	r NE cor	S 19
3												
4												
5 * Δ1Ιμγίι	um, CRB,	Redrock	-									
Well	Well Elev ft msl	First Water ft bls	SWI	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	2730	360	240		400	150*	0-150	. ,	240-380			
A4.	Comme	ents: <u>Se</u>	or proposed al depth e	stimated, b	out will be ll produce	20 feet int	o competer d quantity.	nt bedrock. I	Based on well lo	ogs on fil	e and pu	blished
A5. 🖾	manage (Not all	ment of basin r	ules contain	iter hydraul 1 such prov	ically conrisions.)	nected to su	ırface water	ules relative t	o the developm <b>A are not</b> , active	ent, class ated by t	ification his applic	and/or cation.
A6. 🗌	Name o	of admin	istrative ar	ea:					er limited by an		rative res	triction.

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B. <u>G</u>	ROUN	ND WATER AV	AILABILITY CONSIDERATIONS	S, OAR 690-310-130, 400-	<u>-010, 410-0070</u>
B1.	Bas	sed upon available	data, I have determined that ground was	ter* for the proposed use:	
	a.	period of the	priated, is <b>not</b> over appropriated, or proposed use. * This finding is limited to as prescribed in OAR 690-310-130;		
	b.		will likely be available in the amounts the ground water portion of the injury		
	c.	will not or	will likely to be available within the ca	apacity of the ground water re	source; or
	d.	i. ⊠ The ii. □ The	permit should contain condition #(s)	N, 7K (150 feet below land so in item 2 below.	surface) ;
B2.	a.	Condition to	allow ground water production from no	deeper than	ft. below land surface;
	b.	Condition to	allow ground water production from no	shallower than	ft. below land surface;
	c.	Condition to water reservo	allow ground water production only from ir between approximately ft.	and ft. below la	ground ground ground
	d.	to occur with withholding i	ruction is necessary to accomplish one of this use and without reconstructing are c ssuance of the permit until evidence of w d Water Section.	ited below. Without reconstru	uction, I recommend
			y –as related to water availability– that is hts, not within the capacity of the resource		
B3.	Gre	ound water availa	bility remarks: <u>There are few wells i</u>	n the area that are construct	ted as proposed.
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A1:	diam C	17212				r	2-4 Il 22, 20	00			
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C. GR	OUND	WAT	ER/SURFACE WATER CON	SIDERA	TIONS,	OAR 690-0	<u> 9-040</u>				
C1. <b>69</b>	0-09-04	40 (1):	Evaluation of aquifer confinement:								
·	Wel 1		Aquifer or Proposed Ac	luifer		C	Confined	Ţ	Inconfined		
	1	Likel	y fluviolacustrine deposits: clay, s	ilt, sandst	one, basal	t	$\boxtimes$				
		(Tfl o	f WSP Paper 1839-I)								
									$ \vdash$		
<u>v</u>		vels ab	er confinement evaluation: <u>Exte</u> cove the depth where water was fi								
_		•									
	C2. <b>690-09-040</b> (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ½ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.										
	Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulic Connecte YES NO AS	ed?	Potential Subst. Int Assume YES	erfer.	
	1	1	Pritchard/Alder Creeks @ confluence	2490±	2680	2000					
	1	2	Burnt River	2490+	2640	5700				$\boxtimes$	

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO
1	1	Pritchard/Alder Creeks @ confluence	2490±	2680	2000		
1	2		2490±	2640	5700		
1	2	Burnt River	2490±	2640	5/00		

Basis for aquifer hydraulic connection evaluation: The proposed well construction condition and generally low-permeability of much of the fluviolacustrine deposits (Tfl) will limit local hydraulic connection.

Water Availability Basin the well(s) are located within: Burnt  $R > Snake\ R$  at mouth (72168); Pritchard  $Cr > Burnt\ R$  ab Durkee Cr (30920217).

C3a. **690-09-040** (4): Evaluation of stream impacts for <u>each well</u> that has been determined or assumed to be **hydraulically** connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked box indicates the well is assumed to have the potential to cause PSI.

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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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:	This section	n does	not apply.						

Comments: _	This section does not apply.	

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-E	Distributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
			l						l				
Distri	buted Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfe	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfe	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well O	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
,	rence CFS												
$(\mathbf{A}) = \mathbf{T}$	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
( <b>D</b> ) = (A	A) > (C)	<b>√</b>											
$(\mathbf{E}) = (\mathbf{A}$	(A / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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CFS; (D) = highlight the checking Basis for impact evaluation	nark for each month where (A) is greater than the section likely application. Hydraulic connection is	80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as atter than (C); (E) = total interference divided by 80% flow as percentage. ies. However, the reach where the targeted aquifer discharges to also likely to be indirect and discharge will be to adjacent and
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-		
C4b. <b>690-09-040</b> (5) (b) Rights Section.	The potential to impair or detri	mentally affect the public interest is to be determined by the Wate
under this permit car	oned, the surface water source(s) on be regulated if it is found to substitute should contain condition #(s)_	can be adequately protected from interference, and/or ground water use stantially interfere with surface water:
ii. The peri	nit should contain special condition	on(s) as indicated in "Remarks" below;
C6. SW / GW Remarks and	Conditions	
Co. Sw / Gw Kemarks and	Conditions	
-		
-		
-		
References Used: Loc	al well logs; reviews of LL-1024	& G-16790; USGS WSP 1839-I, 1967, by Price.
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Appli	ication G-17213 con	ntinued	Date: <u>July 23, 2009</u>
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$\mathbf{D} \mathbf{w}$	VELL CONSTRUCTION, C	AR 690-200	
D. <u>v</u>	VEEL CONSTRUCTION, C	111 000 200	
D1.	Well #:	Logid:	
D2.	THE WELL does not meet	current well construction sta	indards based upon:
<i>D2</i> .	a. review of the well l		muarus buscu upon.
	b. field inspection by		
	c report of CWRE		
	d other. (specify)		
Da		1 00	
D3.	a. constitutes a health	<b>leficiency</b> : threat under Division 200 rules	,.
		rom more than one ground wat	
	c. permits the loss of a	artesian head;	
	*	ring of one or more ground wa	
	e other: (specify)		
D4.	THE WELL construction of	leficiency is described as follo	ows:
			_
D5.	THE WELL a	was, or was not constructed	according to the standards in effect at the time of
		original construction or most re	cent modification.
	b. 🗌	I don't know if it met standards	s at the time of construction.
	_		
D6.			lding issuance of the permit until evidence of well reconstruction
	is filed with the Department	and approved by the Enforcem	ent Section and the Ground Water Section.
THI	S SECTION TO BE COMP	LETED BY ENFORCEM	ENT PERSONNEL
D7.	Well construction deficiency	has been corrected by the following	owing actions:
	(Enforcement Section	on Signature)	
D8.	☐ Route to Water Rights Sec	tion (attach well reconstruct	ion logs to this page).