## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water Rights Section						Date	e Decemb	er 31, 20	008	
FROM	:	Ground Water/Hydrology Section										
SUBJE	ECT:	Applio	cation G	17112		Revi Su	ewer's Name persedes re	view of				
		• •					•			Date of Re	view(s)	
OAR 69 welfare, to deter	<b>90-310-1</b> , <i>safety at</i> mine who	30 (1) T nd healt ether the	<i>h as descril</i> presumption	nent shall p bed in ORS on is establ	resume th 537.525. ished. OA	at a propos Departmen R 690-310-	red groundw t staff reviev 140 allows	wground wat the proposed	ensure the prester applications use be modifie icies in place a	under OA	ÅR 690-3 itioned to	10-140 o meet
<b>A. GE</b>	NERAL	INFO	RMATIO	<u>N</u> : A	pplicant's	Name:	William a	nd Anne G	ivens	County:	Umatil	la
A1.	Applica	ınt(s) see	ek(s) 2.3	cfs froi	n one*	well	(s) in the	Umatilla				Basin,
111.		Walla V				subb		ad Map: W	Vaterman			_ Dusin,
A2.								-	o November 30	)		
A3.									d wells as such		gid):	
Wel 1	Logi	id	Applicant's Well#	PIC	oposed juifer*	Propose Rate(cf		Location /R-S QQ-Q)		n, metes a N, 1200' E		
1	Propo	sed	1		uvium	2.3	6N/3	4E-25 NW-S	SE 80' S.			
3			2*	-	CRB	2.3		same		san	ne	
4												
5 * Alluvi	um, CRB,	Bedrock										
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 2	675 675	100 450	?		4-600 ≤ 2000	?	0-400? 0-450?		300-400? 450-500?			
	0/3	430	•		≥ 2000	•	0-4501		430-3001			
			1									
A4.  present deeper confusi Octobe	Commoded to december to decemb	ents: *T velop ei etion as finding B revised e also n ions of t ement of basin re ents: ents: eter's ba	ther a shall well #2. Ples at B1a ar I the well dot provided the Umatill ground wantes contain The well lossalt wells.	dion is unulated as a note of the different epths, but d and there a ter hydraulic such province a such provin	vial aquife the comm for the a not the or efore this ically conrisions.) everal hu	er or the unents here a alluvial aquither information mected to sundred feet	nderlying band especial ifer versus in action that on was ques  Basin runface water outside the	asalt. The a ly on page to the deep base one would h tioned above  are, or area within	to the developm  ✓ are not, acti  a five-mile rac	eation refew to avo pplicant' ted to necessary tenent, class vated by t	ers to the id any s letter of ed to be in ification his application e city of	and/or cation.
AU. [	Name o	f admin	istrative are	a:			, ta		er limited by an	. aummist	rative les	u icuoii.

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Applic	plication G- <u>17112</u>		continued	Date: Decen	nber 31, 2008			
3. <u>GP</u>	ROUN	ND WATER AVAI	LABILITY CONSIDERATIONS	S, OAR 690-310-130, 400-	010, 410-0070			
B1.	Based upon available data, I have determined that ground water* for the proposed use:							
	a.	cannot be deter the basalt aquif	ated (this finding applies only to the mined to be over appropriated during etc.). * This finding is limited to the gOAR 690-310-130;	any period of the proposed u	se (this finding applies only to			
	b.		will likely be available in the amounts e ground water portion of the injur					
	c.	$\square$ will not $or$ $\square$	will likely to be available within the c	apacity of the ground water re	source; or			
	d.	i. ⊠ The per ii. ⊠ The per	y conditioned, avoid injury to existing mit should contain condition #(s) mit should be conditioned as indicate mit should contain special condition(s)	N d in item 2 below.				
32.	a.	Condition to al	low ground water production from no	deeper than	ft. below land surface;			
	b.	Condition to al	low ground water production from no	shallower than	ft. below land surface;			
	c.	Condition to all water reservoir;	ow ground water production only from	n the <b>basalt</b>	ground			
	d.	to occur with thi	etion is necessary to accomplish one of suse and without reconstructing are cance of the permit until evidence of water Section.	ited below. Without reconstru	action, I recommend			
			as related to water availability—that is, not within the capacity of the resource.		reconstruction (interference w/			
33.	teri is o	m declines are displa	ity remarks: <u>**Water-level trends</u> yed in this aquifer. These trends (h iven this finding, all subsequent fin will be developed.	ydrographs included) are st	rong evidence that the aquifer			
		commended languag	e for well construction follows: The	well shall be cased and seal	ed in such a manner to			
		•						

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C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040 C1. 690-09-040 (1): Evaluation of aquifer confinement:							
j	Wel 1	Aquifer or Proposed Aquifer	Confined	Unconfined			
	2	Basalt of the Columbia River Basalt Group	$\boxtimes$				

Wel 1	Aquifer or Proposed Aquifer	Confined	Unconfined
2	Basalt of the Columbia River Basalt Group	$\boxtimes$	

Basis for aquifer confinement evaluation:	Basalt aquifers are typically confined and local well logs indicate that water								
levels in basalt wells are well above the water-bearing zones.									
	•								

C2. **690-09-040 (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)	Hydraulically Connected? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO
2	1	Dry Creek	600±	680	2800		
2	2	Springs at head Swartz Creek	600±	636	4300		

Basis for aquifer hydraulic connection evaluation: <u>Basalt aquifers are not incised by nearby streams and springs</u>, which are in hydraulic connection with the overlying alluvial aquifer.

Water Availability Basin the well(s) are located within: 30710203 PINE CR> WALLA WALLA R- AT MOUTH

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  $\boxtimes$  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?

This section does not apply.		
	This section does not apply.	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-D	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
Distril	buted Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well O	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well O	as CFS												
	rence CFS												
									1	<u> </u>			
(A) = Tc	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) = (A	A) > (C)	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	$\checkmark$	<b>√</b>						
(E) = (A	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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CFS; (D) = highlight the check	mark for each month where (A) is great	80% exceed. as CFS; (C) = $1\%$ of calculated natural flow at 80% exceed. as ater than (C); (E) = total interference divided by 80% flow as percentage.
C4b. 690-09-040 (5) (b) Rights Section.	The potential to impair or detrin	mentally affect the public interest is to be determined by the Wate
under this permit ca	n be regulated if it is found to substantial should contain condition #(s)	an be adequately protected from interference, and/or ground water us tantially interfere with surface water:
ii. 📙 The per	mit should contain special conditio	on(s) as indicated in "Remarks" below;
C6. SW / GW Remarks an	d Conditions	
		cent local reviews, especially G-17039 & G-17108; GW Reports Resources of the Walla Walla River Basin.

D. <u>W</u>	ELL CONSTRUCTION, OAR 69	00-200
D1.	Well #:	Logid:
D2.	<ul> <li>a.  review of the well log;</li> <li>b.  field inspection by</li> <li>c.  report of CWRE</li> </ul>	nt well construction standards based upon:
D3.	<ul><li>c.  permits the loss of artesian</li><li>d.  permits the de-watering of</li></ul>	under Division 200 rules; ore than one ground water reservoir;
D4.	THE WELL construction deficien	ncy is described as follows:
D5.		was not constructed according to the standards in effect at the time of construction or most recent modification.
	b. I don't	know if it met standards at the time of construction.
D6. [		1. I recommend withholding issuance of the permit until evidence of well reconstruction proved by the Enforcement Section and the Ground Water Section.
THIS	SECTION TO BE COMPLETE	D BY ENFORCEMENT PERSONNEL
D7.	Well construction deficiency has be	en corrected by the following actions:
	(Enforcement Section Sign	
	,	

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