PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights So	ection					Date	e	April 29	, 2009		
FROM	:	Groun	nd Water/I	Hydrology	Section _									
SUBJE	CT:	Applio	cation LL	- 1201			ewer's N persed		view of			Date of Rev	view(s)	
OAR 69 welfare, to deteri	90-310-1 safety a mine who umption	30 (1) <i>T nd healt</i> ether the criteria.	The Departs th as describe presumpt This revie	ment shall placed in ORS ion is estable we is based	S 537.525. Elished. OAR upon avail	t a propos Department R 690-310- lable infor	t staff i 140 all	eview lows t n and	ater use will y ground wat he proposed agency pol	er ap use l icies	plications be modified in place at	under OA d or cond t the time	AR 690-3 itioned to e of eval t	10-140 o meet uation.
A. <u>GE</u> I A1.			RMATIC ek(s) 0.1 1		m <u>two</u>		(s) in th	ne	ederated Ti Umatilla ad Map: B			County:	Umatii	<u>Ia</u> _ Basin,
A2. A3.						Seas	sonality	/:	March 200)9 to	Septembe		gid):	
Wel 1	Log		Applicant s Well #	Ad	oposed quifer*	Propose Rate(cf	fs)	(T/	Location (R-S QQ-Q)		2250' N	, metes a	fr NW co	r S 36
1 2 3	UMAT :		1 2		CRB CRB	0.1114			61E-7 SW-SI 0E-12 NE-S			i, 3212' E N, 126' W		
4 5 * Alluviu	um, CRB,	Bedrock												
Well 1 2	Well Elev ft msl 860 865	First Water ft bls 37 56	SWL ft bls 21 39	SWL Date 1/25/08 1/29/08	Well Depth (ft) 55 105	Seal Interval (ft) 0-19 0-45	Cas Inter (fr 0-19 0-45	vals	Liner Intervals (ft) None None			Well Yield (gpm) 80 40	Draw Down (ft)	Test Type Air Air
Use data A4. A5. 🖂	Comme	ents: <u>Bo</u>	for proposed oth wells re	ecently con					atering.					
нэ. Д	manage (Not all	ment of basin ru	ground wa	ater hydraul n such prov	ically conne isions.)	ected to su	ırface v	vater	are, or	∑ are	e not , activ	ated by the	his appli	cation.
A6. 🗌	Name o	of admin	istrative ar	ea:					o(s) an aquife		ited by an	administ	rative res	triction.

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ation	LL- <u>1201</u>	continued	Date: Ap	ril 29, 2009
OUN	ND WATER AVAILA	ABILITY CONSIDERATION	IS, OAR 690-310-130, 40	00-010, 410-0070
Bas	sed upon available data	, I have determined that ground w	ater* for the proposed use:	
a.	period of the propo	d, is not over appropriated, <i>or</i> sed use. * This finding is limited escribed in OAR 690-310-130;		to be over appropriated during any of the over-appropriation
b.		I likely be available in the amount round water portion of the inju		o prior water rights. * This finding cribed in OAR 690-310-130;
c.	☐ will not or ☐ wil	l likely to be available within the	capacity of the ground water	r resource; or
d.	i. X The permi	onditioned, avoid injury to existir t should contain condition #(s) t should be conditioned as indicate	7N	the ground water resource:
		t should contain special condition		low;
a.	☐ Condition to allow	v ground water production from no	o deeper than	ft. below land surface;
b.	Condition to allow	v ground water production from no	o shallower than	ft. below land surface;
c.	Condition to allow water reservoir bet	ground water production only froween approximatelyf	om theft. below	ground land surface;
d.	to occur with this u		cited below. Without recon	
		related to water availability– that of within the capacity of the resour		ell reconstruction (interference w/
		remarks: <u>Condition 7N is typi</u> will be useful to establish water-		. Although this use will be
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C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

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

Wel 1	Aquifer or Proposed Aquifer	Confined	Unconfined
1, 2	Basalt of the Columbia River Basalt Group		

Basis for aquifer confinement evaluation: <u>Basalt aquifers are typically confined, but where encountered at shallow depth or where they are in hydraulic connection with an overlying alluvial aquifer, unconfined conditions may exist. The aquifers developed at these wells are likely semi-confined since the static water levels are only 16-17 feet above the shallowest water-bearing zone reported.</u>

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 ¼ 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
1	1	Umatilla River	839	839	800		
2	1A	Umatilla River	826	834	1400		
2	1B	Umatilla River	826	800	4300		

Basis for aquifer hydraulic connection evaluation: The water-bearing zone in well #1 is likely exposed within or just below the bed of the river in the adjacent reach. The shallowest water-bearing zone in well #2 is not likely exposed within the bed of the river in the adjacent reach. However, this likely does occur within one mile downstream of the well. The head relationship there also supports a ground-water contribution to base flow.

Water Availability Basin the well(s) are located within: 30710347 UMATILLA R> COLUMBIA R- AB UNN STR.

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?
1	1	\boxtimes		30710347	85.0		45.8		<25%	\boxtimes
2	1B			30710347	85.0		45.8		<25%	

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C3b. **690-09-040 (4):** Evaluation of stream impacts <u>by total appropriation</u> 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 #	v > .	nstream 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-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												
(D) = (A	A) > (C)	√											
$(\mathbf{E}) = (\mathbf{A}$	(A / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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	luation:
-	
690-09-040 (5) (b) Rights Section.	The potential to impair or detrimentally affect the public interest is to be determined by the V
under this permit c	ioned , the surface water source(s) can be adequately protected from interference, and/or ground water an be regulated if it is found to substantially interfere with surface water:
	ermit should contain condition #(s)
ii. The pe	ermit should contain condition #(s)
ii. The pe	ermit should contain special condition(s) as indicated in "Remarks" below;
ii. The pe	ermit should contain special condition(s) as indicated in "Remarks" below;
ii. The pe	ermit should contain special condition(s) as indicated in "Remarks" below;
ii. The pe	ermit should contain special condition(s) as indicated in "Remarks" below;
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ii. The pe	ermit should contain special condition(s) as indicated in "Remarks" below;
ii. The pe	and Conditions

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D. <u>V</u>	VEI	LL CO	NSTRUC	TION, C	OAR 690-	-200												
D1.		Well #:	1, 2		_	Logid:	U	MAT	56074.	, <u>5607</u>	5							
D2.		a.	review of field insper report of	the well lection by CWRE	log;	well consti												;
D3.		a.	permits the permits the	s a health les water i le loss of a le de-wate	threat und from more artesian he ering of on	der Division than one g	ground ground	l wateı d wate	r reser	voirs;								
D4.		THE W	ELL cons	truction	deficiency	is describ	oed as	follow	vs:									
D5.		THE W	ÆLL		original co	was not construction	or mo	st rece	ent mo	dificat	tion.		n effec	at the	time o	of		
D6.						I recomme oved by the										ll reco	onstru	ction
TH	IS S	ECTIO	N TO BI	E COMP	PLETED	BY ENF	ORC	EME	NT PI	ERSC	NNE	L						
D7.		Well co	nstruction	deficiency	y has been	corrected	by the	follov	ving ac	ctions:								
			(Enforcen	nent Secti	on Signatı	ure)				_							, 200	
D8.		Route 1				ach well re	econst	ructio	n logs	to this	s page	e) .						

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