PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Water	Rights S	ection		DateJune 22, 2010								
FROM	[:	Groun	ndwater/H	lydrology S	Section									
SUBJI	ECT:	Appli	cation G-	17395				's Name sedes re	view of			Date of Re	view(c)	
OAR 6 welfare to deter	90-310-1 c, safety as rmine who sumption	30 (1) 7 and healing ther the criteria.	The Depart th as descr e presumpt	ibed in ORS ion is establ ew is based	resume the 537.525. I ished. OAl upon avai	at a propos Department R 690-310- ilable infor	t sta 140 rma	ff review allows t tion and	ater use will v groundwate the proposed l agency pol s Propertie	er app use b icies i	e the pres lications u e modified n place at	ervation of the order OA or cond	of the put R 690-33 itioned to e of evalu	10-140 o meet uation.
A1.	Applica	nt(s) se	ek(s) <u>16.</u>	82 cfs from	m4	well((s) iı	n the	Umatilla F	River				_Basin,
		Walla V	Valla Rive	r		subb	asin	Qu	ad Map: M	<u> Iilton</u>	Freewate	r		
A2.									Year-roun					
A3.	Well an	d aquif	er data (att	ach and nu	mber logs	for existin	ıg w	ells; ma	rk proposed	d wells	s as such	under lo	gid):	
Wel 1	Logi	Logid Applicant's Well #		PIC	Proposed Aquifer*		Proposed Rate(cfs)		Location (T/R-S QQ-Q)		Location, metes and bounds, 2250' N, 1200' E fr NW cor S 3			
1	UMAT5		3A		RBG	5.4								
3	UMATS UMATS	-	4A 4D		RBG RBG	8.8					415' S, 500' W fr Center S 4 375' S, 940' W fr Center S 4			
4	UMAT:		POA5051		RBG	1.5					335' S AND 1516' E fr NW cor S 4			
5														
* Alluvi	um, CRB,	Bedrock	ζ.											
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)		Casing ntervals (ft)	Liner Intervals (ft)		forations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
3A	1148		362	3/29/10	1040	0 - 20 $162 - 495$	0 -	- 645				2000	83.25	pump
4A	1088	479	424.2	3/15/10	1035	0 - 705	_	- 705				2700	9.5	pump
4D 50516	1090 900	280 121	415.1	3/14/10 3/27/10	1056	0 - 460 0 - 414		2 - 640 - 410	666 – 706			3500 1200	9	pump
30310	900	121	220	3/2//10	1109	0 – 414	U-	- 410	000 - 700			1200		Air
A4.			for proposed		aintain fu	ıll ponds to	o pr	otect po	nd liners fro	om we	eather, etc	2.		
Reques	sted discl	narge ra	ate is 7548	.82 gpm = 1	6.82 cfs.									
A5. 🖂	manage (Not all	ment of basin r	ules contai	ter hydrauli n such provi	cally conne	ected to sur	rface	e water	ıles relative t	are	not, activa	ated by th	is applic	
A6. 🗌	Name o	f admin	istrative a	ea: <u>NA</u>					p(s) an aquif		ited by an	administ	rative res	striction.

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pplic	ation	G-17395	continued	Date	June 22, 2010						
. <u>GF</u>	ROUN	NDWATER AVAILABIL	ITY CONSIDERAT	IONS, OAR 690-310-130, 4	<u>400-010, 410-0070</u>						
1.	Bas	sed upon available data, I ha	ve determined that grou	andwater* for the proposed use:							
	a.		ise. * This finding is lin	mited to the groundwater portio	d to be over appropriated during any on of the over-appropriation						
	b.			nounts requested without injury e injury determination as pre	to prior water rights. * This finding scribed in OAR 690-310-130;						
	c.	\square will not or \square will likely to be available within the capacity of the groundwater resource; or									
	d.	i. The permit shows the	uld contain condition #(tag + large monitoring uld be conditioned as in	existing groundwater rights or to (s) 7B - Interference, 7F - P g and reporting with a flow m dicated in item 2 below. dition(s) as indicated in item 3 b	roposed well location, 7N - Annual leter at each well						
2.	a.	☐ Condition to allow gro	undwater production fro	om no deeper than	ft. below land surface;						
	b.	☐ Condition to allow gro	undwater production fro	om no shallower than	ft. below land surface;						
	c.	Condition to allow groundwater reservoir bland surface;	undwater production onletween approximately_	y from theft. and	ft. below						
	d.	to occur with this use ar	nd without reconstructing the permit until evidence	g are cited below. Without reco	litions. The problems that are likely onstruction, I recommend with the Department and approved						
		Describe injury –as relat senior water rights, not wi			well reconstruction (interference w/						
3.	Gro	oundwater availability rema	nrks: <u>7N – Annual Wat</u>	ter Level in February to Marc	ch 15. Reference level given below.						
		Well Name	Reference Leve	1 Date							
		4A - UMAT 55523	416.13	03/15/2008							
		3A - UMAT 55526	359.80	03/25/2008							
		4D - UMAT 56382	419.30	02/18/2010							
		UMAT 50516									

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
3A	CRBG		
4A	CRBG	\boxtimes	
4D	CRBG		
50516	CRBG	\boxtimes	

Basis for aquifer confinement evaluation:	Groundwater levels rose above where they were encountered in the wells.

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
3A							
4A							
4D							
50516							

Basis for aquifer hydraulic connection evaluation: Groundwater levels are well below nearby streams.	
Water Availability Basin the well(s) are located within:	

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?
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-D	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
Distrib	outed Well	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
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												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
$(\mathbf{A}) = \mathbf{T}0$	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
$(\mathbf{D}) = (A$	A) > (C)	√	√	√	√	√	✓	√	√	√	√	√	√
$(\mathbf{E}) = (\mathbf{A}$	/B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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D) = highlight the chec	; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceeds the same for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.
Basis for impact eva	lluation:
_	
690-09-040 (5) (b) Rights Section.	The potential to impair or detrimentally affect the public interest is to be determined by the
under this permit c	ioned , the surface water source(s) can be adequately protected from interference, and/or groundwar 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)ermit should contain special condition(s) as indicated in "Remarks" below;
, , o , , nemains al	nd Conditions
, , G w Achidi As di	nd Conditions
, on Remarks at	nd Conditions
, on Remarks at	nd Conditions
, on Remarks at	nd Conditions
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eferences Used:	d Conditions
	d Conditions

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Application G-17395_____continued

cation G-17395	continued	Date	June 22, 2010
ELL CONSTRUC	ΓΙΟΝ, OAR 690-200		
Well #:	Logid:		
a. review ofb. field inspect	the well log; ction by		
a. constitutes b. commingle c. permits the d. permits the	s a health threat under Division 200 rules water from more than one groundve loss of artesian head; e de-watering of one or more groundve	vater reservoir; vater reservoirs;	
THE WELL const	ruction deficiency is described as fo	ollows:	
THE WELL			at the time of
	b. I don't know if it met standa	ards at the time of construction.	
SECTION TO BE	COMPLETED BY ENFORCE	MENT PERSONNEL	
Well construction of	leficiency has been corrected by the f	ollowing actions:	
			200
(Enforcem	ent Section Signature)		, 200
Route to Water R	ights Section (attach well reconstru	action logs to this page).	
	THE WELL const a. review of the field inspection of the constitutes of the comming of the constitutes of the comming of the co	THE WELL does not meet current well construction a.	ELL CONSTRUCTION, OAR 690-200 Well #: Logid:

