PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights S	ection				Date	e <u>April 18</u>	, 2006		
ROM	*	Grour	nd Water/	Hydrology	Section _		ael Zwart					
SUBJE	CT:	Appli	cation G-	16607			ewer's Name persedes re	eview of	N/A	Date of Re	view(s)	
oar 69 welfare, to deter the pres	90-310-1 safety armine who umption	30 (1) 7 and healther the criteria.	The Depart. th as describe presumption This review	ibed in ORS ion is establi ew is based	resume the 537.525. I shed. OAI upon avai	at a propos Department R 690-310- ilable infor Name:	ed groundways staff review 140 allows to mation and David Du (s) in the	v ground wat the proposed I agency poli yck Hood	ensure the presser applications to use be modified icies in place atCo	ınder OA l or condi	R 690-31 tioned to of evalu	0-140 meet
A2. A3.						Seas	onality:	March 1 to	o October 31 wells as such	under log	gid):	
Well	Logi		Applicant Well #	Ac	posed juifer*	Propose Rate(cf	îs) (T	Location 7/R-S QQ-Q)	2250' N	n, metes a N, 1200' E	fr NW cor	r S 36
2	WASC	2271	L55830	Sar	ıdstone	0.178	3 1N/1	2E-11 SW-N	W 2150° S	S, 924' E 1	r NW cor	·S 11
3												
5												
	ım, CRB,	Bedrock	ζ.				!					
Well	Well Elev ft msl	First Water	SWL	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	1110	212	131	10/24/77	270	0-25	0-220	None	160-220	60	?	Air
\vdash												
-								+				
Use data	from app	lication	for proposed	l wells.		ı		1	- 12			
A4. on the a	Comme							iot be able to	produce the d	esired qu	iantity, b	<u>ased</u>
								- 12				
		Visio										
		_				- 22	-	-00-10-00		111.09.00.00	- 13	
A5. 🗵	manage (Not all	ment of basin r	ules contai	ater hydrauli n such provi	cally conn sions.)	ected to sur	rface water	are, or	to the developm are not, activ	ated by th	is applica	and/or ation.
	Comme	nts:										
16. □	Well(s)	#		,		,	, ta	ap(s) an aquif	er limited by an	administ	rative res	triction.
	Comme	nts:	nistrative ai	ea:								

Applic	ation	G- <u>16607</u> continued	Date: <u>April 18, 2006</u>
B. <u>GI</u>	ROUN	ND WATER AVAILABILITY CONSIDERATION	NS, OAR 690-310-130, 400-010, 410-0070
31.	Bas	sed upon available data, I have determined that ground w	rater* for the proposed use:
	a.		r igotimes cannot be determined to be over appropriated during any d to the ground water portion of the over-appropriation
	b.		ts requested without injury to prior water rights. * This finding ury determination as prescribed in OAR 690-310-130;
	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 i. The permit should contain condition #(s)	7E ; ted in item 2 below.
		iii. The permit should contain special condition	
B2.	a.	Condition to allow ground water production from n	o deeper than ft. below land surface;
	ъ.	☐ Condition to allow ground water production from n	o shallower than ft. below land surface;
	c.	Condition to allow ground water production only from water reservoir between approximately	om the ground ft. and ft. below land surface;
	d.	occur with this use and without reconstructing are cit	or more of the above conditions. The problems that are likely to ted below. Without reconstruction, I recommend withholding ruction is filed with the Department and approved by the Ground
			t is likely to occur without well reconstruction (interference w/
B3.	Gre	ound water availability remarks:	
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	_		
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	7		
		200 200	
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	_	- ASA (ASA (ASA (ASA (ASA (ASA (ASA (ASA	

Application G-16607	continued

Date: April 18, 2006

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

1.	690-09-040	(1):	Evaluation	of aquifer	confinement:
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Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Sandstone and other rocks of the Dalles Formation	\boxtimes	

Basis for aquifer confinement evaluation:	The water-bearing zone is below the static water level.	

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	Brown Creek	979	750	2600		
1	2	Chenoweth Creek	979	700	9000		

Basis for aquifer hydraulic connection evaluation: <u>The regional ground-water flow direction suggests better hydraulic connection with Chenoweth Creek, where several springs are mapped in the Dalles Formation rocks. The generally low transmissivity of this aquifer indicates that the impacts will likely be very localized.</u>

Water Availability Basin the well(s) are located within: Chenoweth Cr > Columbia R at mouth (30410533).

C3a. 690-09-040 (4): Evaluation of stream impacts for each well 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.

	ation and minu	TOTAL MEPTY ME	-						
:	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.

	stributed												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	6/6	9/6	9/6	%	%	%	%	%	%	%
Well Q a	is CFS												
Interfere	nce CFS												
Distrib	uted Well:	5											
Well	SW#	Jan	Feb	Маг	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	9/0	%	%	8/0	9/0	9/ω	%	%	%	9/
Well Q a	s CFS												
	nce CFS												
		%	%	1%	º/o	%	%	0/0	%	0/0	%	º/u	9/
Well Q a	s CFS												
	nce CFS												
		9/0	9/0	%	%	%	0/4	0/0	%	9/0	%	%	0/
Well Q a	s CFS												
Interfere	nce CFS												
		%	9/0	%	%	%	%	9/0	%	0/0	%	%	9/
Well Q a	s CFS		-				i						
Interfere													
		6/o	%	11/0	0/0	%	9/6	%	%	9/0	%	9/6	9/
Well Q a	is CFS						i						
Interfere	nce CFS									İ			
		%	%	9/0	n/o	9/4	9/4	9/n	%	n/n	%	1/0	9/
Well Q a	is CFS												
Interfere	nce CFS										_=		
(A) = Tot	tal Interf.				V.								
(B) = 80 °	% Nat. Q												
(C) = 1 %	4 Nat. Q												
(D) = (A)) > (C)	1	V	1	/	V.	V	V	V	V.	1	V	1
(E) = (A / A)		%	%	9/11	9/0	9/0	%	%	%	9/0	1/11	%	9/

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.

	interference. The Dalles Formation includes numerous semi-isolated water-bearing zones and most are not laterally
	extensive. Watermaster staff report that Brown Creek is effectively dry except during spring runoff.
1	
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- 1	
	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the W Rights Section.
	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water under this permit can be regulated if it is found to substantially interfere with surface water: i. The permit should contain condition #(s)
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;
	in a transfer of the product of the state of
SV	V / GW Remarks and Conditions
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	ferences Used: Local well logs; nearby application reviews; Ground-Water Resources in the Hood Basin, OR, by adv, 1983, USGS WRI 81-1108.
	ferences Used: Local well logs; nearby application reviews; Ground-Water Resources in the Hood Basin, OR, by ady, 1983, USGS WRI 81-1108.

Applica	tion G- <u>16607</u>	continued	Date: April 18, 2006
D. WE	LL CONSTRUCTION,	OAR 690-200	
) 1.	Well #:1	Logid:WASC	2271
D2.	a. review of the well b. field inspection b c. report of CWRE	y	dards based upon:
D3.	b. commingles water c. permits the loss o d. permits the de-wa	th threat under Division 200 rules; r from more than one ground wate	er reservoirs;
D4.	THE WELL construction	n deficiency is described as follo	vs:
THIS	b. Route to the Enforcement is filed with the Department SECTION TO BE COM	original construction or most red I don't know if it met standards at Section. I recommend withhole	ling issuance of the permit until evidence of well reconstruction and the Ground Water Section.
D8.	(Enforcement Sec	tion Signature) ection (attach well reconstruction	on logs to this page).

WATER RESOURCES DEPARTMENT

MEN	10								Ipril.	18,2	200_6	
TO:		Applie	cation (- 166	07	_						
FROM:		GW: Michael Zwart (Reviewer's Name)										
SUBJECT:		Scenic Waterway Interference Evaluation										
	YES											
	NO	The source of appropriation is within or above a Scenic Waterway										
	NO											
	_YES											
V	NO	Use the Scenic Waterway condition (Condition 7J)										
		RS 390.									iter	
		erence wated inte					es to a s	scenic v	v aterwa	iy. The		
	Per Ol	RS 390.	835, the	Ground	d Water	Section	is unal	ole to ca	lculate	ground	water	
	interfe	rence w	ith surfa	ace wate	er that c	ontribut	es to a s	scenic w	aterway	y; there	fore,	
		epartmo he prop									nce	
		ary to i										
D. 1.0.												
	RIBUTI ate the pe					h and fill	in the tab	le below.	If interfe	rence ca	nnot he	
calcula	ited, per c ing Water	riteria in	390.835,	do not fil	ll in the to	ible but c	heck the	"unable"	option a	bove, thu	s	
	ise of th										Scenic	
Water	way by	the follo	wing a	mounts								
which	surface	water f	low is r	educed.								
Jan	Feb	Маг	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	

