## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights S	ection				Dat	e <u>Septeml</u>	oer 29, 2	005	
FROM	<u>:</u>	Groun	d Water/	Hydrology	Section _		ael Zwart					
SUBJE	CT:	Applic	cation G-	16482			iewer's Name persedes re	eview of	N/A	Date of Re	view(s)	
PUBL:	IC INT	EREST	PRESU	MPTION:	GROUN	NDWATE	R					
OAR 69 welfare, to deter	9 <mark>0-310-1</mark> , <i>safety a</i> mine who	30 (1) Tond healthether the	he Depart h as descr presumpti	ment shall p ibed in ORS ion is establ	oresume the 537.525. ished. OA	<i>at a propos</i> Departmen R 690-310-	ed groundw t staff reviev 140 allows t	v ground wat he proposed	ensure the prese er applications to use be modified icies in place at	under OA l or condi	R 690-31 tioned to	10-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIC	<u>ON</u> : A	pplicant's	Name:	Ashley Fa	mily Rane	hCo	unty: V	asco	
A1.	Applica	ınt(s) see	k(s) _1.0	cfs fro	m <u>one</u>	well	(s) in the	Deschutes				_ Basin,
		White R	iver			subb	asin Qu	ad Map: N	<u> [aupin</u>			374
A2. A3.	Propose Well an	ed use: _ id aquife	Ind r data (att	ustrial & I ach and nu	rrigation mber logs	Seas	sonality:	Industrial rk proposed	; vear round; I I wells as such	<u>rr.: 3/1-1</u> under lo	0/31 gid):	
Well	Log	id	Applicant Well #		oposed quifer*	Propos Rate(c:		Location /R-S QQ-Q)		n, metes		
1	WASC	3651	1		luvium	1.0		3E-12 SW-N		V, 1896' S		
2						4						
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	1045	127*	60	6/7/80	142	0-20	0-142	None	137-142	20	0	В
Lice data	from ann	lication 6	or proposed	welle								
A4.	- '		• '		ina zono (	12-14 foot)	was sealed	off				
	Commis	::::::::::::::::::::::::::::::::::::::	Hanower	water-bear	ing Zone (	12-14 1661)	was scareu	011.				
					7/53						- 10,500	
A5. 🛭	Provis	ions of t	he <u>Desch</u> ı	ites	11	. 1	Basin n	ules relative t	to the developm	ent, class	ification	and/or
	(Not all	basin ru	iles contai	n such prov	isions.)				are not, activ	•	• •	ation.
A6. 🗌	Name o	f admini	istrative ar	ea:,				p(s) an aquif	er limited by an	administ	rative res	striction.

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B. <u>GI</u>	ROUN	ND WATER AVA	ILABILITY CONSIDERATION	S, OAR 690-310-130, 400-	010, 410-0070		
B1.			data, I have determined that ground was				
	a.	is over appropries	riated, \( \subseteq \text{ is not over appropriated, } or \) roposed use. * This finding is limited as prescribed in OAR 690-310-130;	cannot be determined to b			
	ъ.		will likely be available in the amounts e ground water portion of the injury determined				
	c.	☐ will not or ⊠	will likely to be available within the c	apacity of the ground water res	ource; or		
	d.	i. The p	rly conditioned, avoid injury to existing termit should contain condition #(s) termit should be conditioned as indicate termit should contain special condition(s)	d in item 2 below.			
B2.	a.		allow ground water production from no				
	b.		allow ground water production from no				
	c.		allow ground water production only from the street street from the street street was a street wa				
	d.	occur with this	uction is necessary to accomplish one of use and without reconstructing are cited permit until evidence of well reconstructions.	d below. Without reconstruction	on, I recommend withholding		
		Describe injury senior water righ	-as related to water availability- that is ts, not within the capacity of the resource	s likely to occur without well rece, etc):	econstruction (interference w/		
B3.	Gre	ound water availab	ility remarks:				
				more well to	71 MS		
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	_						
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Date:	September	29,	2005	

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Interbedded gravel, sand and clay		

Basis for aquifer confinement evaluation: <u>The static water level is reported to be well above the depth where it was</u> first encountered, which is below multiple clay layers.

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	White River	985	1035	250		
					_		

Basis for aquifer hydraulic connection evaluation: <u>The +/- 50 feet of head difference indicates a poor hydraulic</u> connection with the local reach.

Water Availability Basin the well(s) are located within: White R > Deschutes R at mouth (70088).

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.

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.
			(615)		(CIS)	riow:		Assumed?

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.

SW#					May		Jul	Aug	Sep	Oct		Dec
	%	%	%	%	%	1/0	%	%	%	%	0/0	9/
as CFS												
ence CFS												
4												
		Ech	Mar	A ==	May	Tues	T1	Aug	Com	Ont	Non	Das
2 44 #												Dec %
as CFS	74		70		74	74	70	76	70		76	70
ince Cr5	97	97	24		0.4	24						
	%		%a	%	- %	1/0	%		%	%	%	%
ence CFS												
	%	%	%	%	%	%	% 9/a	%	%	%	%	%
as CFS												
nce CFS								Ü.				
	%	9/0	0/6	%	%	%	º/o	%	%	9/0	%	9/4
as CFS											· · · ·	
nce CFS												
	%	%	9/6	%	%	%	%	9/0	9/0	%	0/0	9/6
as CFS				<u>:</u>								
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	%	%	%	%	%	%	9/0	%	0/0	9/0	%	%
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% Nat. Q												
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/ B) x 100	%	%	u/ <sub>0</sub>	%	9/6	%	0/0	9/11	9/0	8/0	%	%
	as CFS ence CFS	as CFS ence CFS  wited Wells SW# Jan  % as CFS ence CFS  as CFS ence CFS  % as CFS ence CFS	SW# Jan Feb  % % as CFS ence CFS  puted Wells SW# Jan Feb  % % as CFS ence CFS  as CFS ence CFS  % % as CFS ence CFS  has CFS ence CFS  % % as CFS ence CFS	SW# Jan Feb Mar  % % % % as CFS ence CFS  Outed Wells SW# Jan Feb Mar  % % % % % as CFS ence CFS  As CFS ence CFS  % % % % % as CFS ence CFS  % % % % % as CFS ence CFS  As CFS ence CFS  ### A ### A ### A ### ###	SW# Jan Feb Mar Apr    %	SW# Jan Feb Mar Apr May    %	SW# Jan Feb Mar Apr May Jun    % % % % % % % % % % % % % % % % % %	SW# Jan Feb Mar Apr May Jun Jul    %	SW# Jan Feb Mar Apr May Jun Jul Aug  % % % % % % % % % % % % % % % % % % %	SW# Jan Feb Mar Apr May Jun Jul Aug Sep    %	SW# Jan Feb Mar Apr May Jun Jul Aug Sep Oct	SW# Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov  as CFS cnice CFS  wited Wells SW# Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov  as CFS  cnice CFS  wited Wells SW# Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov  as CFS  cnice CFS  cnic

(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.

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ication G- <u>16482</u>	continued	Date: September 29, 2005
Basis for impact eval	votion. See below	
Dasis for inipact eval	uation: See below.	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	1.000	
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690-09-040 (5) (b) Rights Section.	The potential to impair or detrimentall	y affect the public interest is to be determined by the Wa
		equately protected from interference, and/or ground water i
	n be regulated if it is found to substantially	
	mit should contain condition #(s) 7J	The state of the s
	mit should contain special condition(s) as i	ndicated in "Remarks" below:
	,	,
reak in slope at the ed nderlying rocks of the liver and lower reach	ge of the Deschutes canyon. Ground was Dalles Formation or Columbia River Broof the White River. Therefore, hydraulich these reaches of the rivers, which are in	adient of White River steepens considerably below the ter in the alluvial deposits may provide recharge to asalt. These rocks are locally incised by the Deschutes c connection with the alluvium is likely to be indirect an more than one mile from the well. I believe that use of t
	77.78164	
	- 32 - Ai	
		300000
N45		
References Used: Re	connaissance Geological Map of the Duft	ur Quad, by Waters, 1968; local well logs.
	3*	
#		No. 100 No. 10
		****
		924

	Well #:1 Logid: <u>WASC 3651</u>
02.	THE WELL does not meet current well construction standards based upon:  a. review of the well log;  b. field inspection by report of CWRE  d. other: (specify)
03.	THE WELL construction deficiency:  a.
04.	THE WELL construction deficiency is described as follows:
D5.	THE WELL  a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.  b. I don't know if it met standards at the time of construction.  Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.
THIS	SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
	Well construction deficiency has been corrected by the following actions:

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## Water Resources Department

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TO	A	pplicat	ion G	1648	2	<b>∃</b> 8							
FROM	G	w: <u>/</u>	1 ichae	1 2	wart								
SUBJEC		Scenic Waterway Interference Evaluation											
Ye	Tl	The source of appropriation is within or above a Scenic Waterway  Use the Scenic Waterway condition (Condition 7J).											
Ye No	Us												
PREPOND	ERAN	CE OF	EVIDE	NCE F	INDING	3. <i>(C</i> h	ale how	omb. iC		es es	57 182 173 - 60		
PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)  At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.													
						(			*		255		
FLOW REDUCTION: (To be filled out only if <u>Preponderance of Evidence</u> box is not checked)													
Exercise of	this per by the f	rmit is o	calculate g amou	ed to rec	luce mo	nthly f	lowe in				Scenic by which		
Jan	Feb	Mar	Apr	May	T	T. 3					- 1		
		1101	Yhr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec		