## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	r Rights S	ection				Date	e Septemb	oer 2, 20	10	
FROM	[ <b>:</b>	Grou	nd Water/l	Hydrology	Section _		el Zwart					
SUBJE	ECT:	Appli	cation G-	17417			ewer's Name persedes re	view of		Date of Re	view(s)	
OAR 6 welfare to deter	<b>90-310-1</b> , <i>safety a</i> mine wh	30 (1) 7 nd heal ether the	The Depart th as descr e presumpt	<i>ibed in ORS</i> ion is establ	presume the 537.525. I ished. OA	at a propos Department R 690-310-	ed groundw staff reviev 140 allows t	v ground wat the proposed	ensure the present applications use be modifie	under OA d or cond	AR 690-3 itioned to	10-140 o meet
<b>A.</b> <u><b>GE</b></u>	NERAL	INFO	RMATIO	<u><b>N</b></u> : A	pplicant's	Name:	Sam Tren	kle		County:	Malheu	<u>ır</u>
A1.	Applica	ınt(s) se	ek(s) <u>1.7</u>	cfs from	m <u>one</u>	well(	s) in the		enry Gulch/Va	nle East		_Basin,
A2. A3.						&S) Seas	onality:	March 1 to	October 31 I wells as such		gid):	
Wel l	Log	id	Applican s Well #	PIC	oposed quifer*	Propose Rate(cf	(Table 1)	Location /R-S QQ-Q)	2250' N	n, metes a		
1 2	Propo	sed	1	Ве	edrock	1.75	18S/4	5E-13 SE-N	W 1050' N	, 2870' W	fr E 1/4 co	or S 13
3												
5												
	um, CRB,	Bedrocl	ζ.									
Well	Well Elev ft msl	First Water ft bls	ft ble	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
A4. shallow	Commo	ents: <u>T</u> sand a	nd gravel	tion propos aquifer (GV	W Report	#34) is thir		therefore pr	ng and seal de esuming that t			the
A5. 🛛	manage (Not all	ment of basin r	ules contai	ater hydraul n such prov	ically conn isions.)	ected to su	rface water	lles relative t  ☐ are, or  ☐	o the developm are not, activ	ent, class vated by t	ification his applic	and/or cation.
A6. 🗌	Name o	of admir		ea:					er limited by an		rative res	striction.

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В. <u>GI</u>	ROUN	ND WATER AVAIL	ABILITY CONSIDERATIO	ONS, OAR 690-310-130, 40	<u>0-010, 410-0070</u>
B1.	Bas	sed upon available dat	a, I have determined that ground	water* for the proposed use:	
	a.	period of the prop	red, is <b>not</b> over appropriated, cosed use. * This finding is limite prescribed in OAR 690-310-130;		<b>o be</b> over appropriated during any of the over-appropriation
	b.		ill likely be available in the amou ground water portion of the ir		prior water rights. * This finding ribed in OAR 690-310-130;
	c.	☐ will not or ☐ w	<b>ill</b> likely to be available within th	e capacity of the ground water	resource; or
	d.	i. ⊠ The perr ii. □ The perr	conditioned, avoid injury to exist in the should contain condition #(s) nit should be conditioned as indicated in the should contain special conditional special condi	7E, 7K (40 feet; the alluvia ated in item 2 below.	al sand and gravel aquifer)
B2.	a.	Condition to allo	ow ground water production from	no deeper than	ft. below land surface;
	b.	Condition to allo	ow ground water production from	no shallower than	ft. below land surface;
	c.	Condition to allo water reservoir be	w ground water production only fetween approximately	from the ft. below	ground land surface;
	d.	to occur with this	<b>tion</b> is necessary to accomplish on use and without reconstructing arnce of the permit until evidence of ater Section.	e cited below. Without recons	truction, I recommend
			as related to water availability—the not within the capacity of the reso		
В3.	<u>Fer</u> con wel	ry Formation include astruct the well much on the could be required.	y remarks: Most local wells do s some thin and likely disconting deeper than is proposed here to There is still insufficient informative water-bearing zones (GW)	uous sand and sandstone layo be able to produce the desire action about this aquifer to be	ers and it may be necessary to
	<u>ucp</u>	or the more produc	ctive water-bearing zones (G W	керог (34).	

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			TER/SURFACE WATER CON	SIDERA	TIONS,	OAR 690-(	<u> </u>			
C1. <b>69</b>	0-09-04	40 (1):	Evaluation of aquifer confinement:							
	Wel 1		Aquifer or Proposed Aq	uifer		C	Confined	Į	Inconfined	
·	1	Sand	sandstone layers within the Gleni	ns Ferry F	ormation					
			er confinement evaluation: <u>GW</u> ery Formation is higher than that						at the head	<u>l in</u>
	horizon assume	tal dist d to be	(3): Evaluation of distance to, and hance less than ¼ mile from a surface hydraulically connected to the surfacted for PSI.	e water soi	urce that p	oduce water	r from an unconfi	ned aqui	fer shall be	
	Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulica Connected YES NO ASS	1?	Potentia Subst. In Assum YES	terfer.
ļ	1	1	Malheur River	2200±	2195	1900				
1								님		_ <u> </u>

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	Malheur River	2200±	2195	1900		
1							

Basis for aquifer hydraulic connection evaluation: <u>The Glenns Ferry Formation may provide some recharge to the overlying alluvial deposits, but the Malheur River is not locally incised into this formation (GW Report 34, figure 3).</u> Any hydraulic conection with the river will be indirect.

Water Availability Basin the well(s) are located within: Malheur R > Snake R at mouth (31011701).

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 cf		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:	This section d	oes not apply.						

<b>Comments:</b>	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												
-	ence CFS												
Distrib	outed 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 Q	as CFS												
,	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
$(\mathbf{A}) = \mathbf{T}\mathbf{o}$	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
$(\mathbf{D}) = (A$	A) > (C)	<b></b>	<b>√</b>	<b>✓</b>	<b>√</b>								
$(\mathbf{E}) = (\mathbf{A}$	/B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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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 ca	<b>ioned</b> , the surface water source(s) can be adequately protected from interference, and/or ground water and be regulated if it is found to substantially interfere with surface water:  wrmit should contain condition #(s)
ii. The pe	rmit should contain condition #(s)
deferences Used: Lo	ocal well logs; local application reviews; Ground Water Report #34 by Marshall Gannett.
References Used: Lo	cal well logs; local application reviews; Ground Water Report #34 by Marshall Gannett.

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D. <u>V</u>	WEL	L CONSTRUC	CTION, OAR 690-200	
D1.	,	Well #:	Logid:	
D2.	1 (	a. review of field insp.	es not meet current well construction standards based upon:  of the well log; pection by  FCWRE pecify)	
D3.	1 (	a. constitute c. comming c. permits t d. permits t	es a health threat under Division 200 rules; gles water from more than one ground water reservoir; the loss of artesian head; the de-watering of one or more ground water reservoirs; pecify)	
D4.	, - -	ΓΗΕ WELL con	astruction deficiency is described as follows:	
	-			
D5.	- ,	THE WELL	<ul> <li>a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.</li> <li>b. don't know if it met standards at the time of construction.</li> </ul>	
D6.			<b>forcement Section.</b> I recommend withholding issuance of the permit until evidence of well reconstruction and approved by the Enforcement Section and the Ground Water Section.	ıction
TH	IS SI	ECTION TO B	E COMPLETED BY ENFORCEMENT PERSONNEL	
D7.	·	Well construction	deficiency has been corrected by the following actions:	
	-			
	-			
	-			
	-			
	-			
	-	(Enforce)	ment Section Signature), 200	)
D8.			Rights Section (attach well reconstruction logs to this page).	

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