PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water				Date	e	Novemb	er 16, 20	009				
FROM	[:	Grou	nd Water/I	Hydrology	Section _			Zwart						
SUBJE			cation G			Su	pers	's Name sedes re	view of			Date of Re	view(s)	
OAR 69 welfare, to deter	90-310-1 , <i>safety a</i> mine wh	30 (1) 7 nd heal ether the	<i>th as descri</i> e presumpti	nent shall p bed in ORS on is estab	oresume the 537.525. Iished. OA	<i>at a propos</i> Departmen R 690-310	sed g it sta -140	ff reviev allows t	ater use will w ground wan the proposed agency pol	ter ap use l	plications be modifie	under OA d or cond	AR 690-3 itioned to	10-140 o meet
A. <u>GE</u>	NERAL	INFO	RMATIC	<u>N</u> : A	pplicant's	Name:	Ge	offrey (Gerg		(County:	Harney	7
A1.	Applica	ant(s) se	eek(s) <u>1.56</u>	cfs fro	m <u>two</u>	well			Malheur I					_Basin,
A2. A3.									May 1 to 0			under lo	gid):	
Wel 1	Log	id	Applicant s Well #	PI	oposed quifer*		- I		Location I		Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36			
1 2	Propo	sed	1	Va	lley Fill	1.56		24S/32.5E-28NW-NW		NW	200' S,	1320' E f	r NW coi	· S 28
3														
4														
5 * Δ1Ιμγίι	um, CRB,	Redrocl	7											
Alluvi					1	ı			1			1	T	
Well	Well Elev ft msl	First Water ft bls	ft ble	SWL Date	Well Depth (ft)	Seal Interval (ft)	Ir	Casing ntervals (ft)	Liner Intervals (ft)	Oı	rforations r Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	4116		26±		375±	0-180±	0-2	200	None	180)-200±			
A4.	Comme	ents: <u>W</u>		ction info					timated who				of confl	icting
A5. 🖾	manage (Not all	ement of basin r	the Malher f ground wa ules contain	iter hydraul n such prov	ically conrisions.)				ıles relative t ☐ are , <i>or</i> [
A6. 🗌	Well(s) Name of	of admir	, istrative are	ea:					p(s) an aquif	er lin	nited by an	administ	rative res	triction.

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Applic	ation	G- <u>17242</u>	continued	Date: No	ovember 16, 2009
В. <u>G</u>	ROUN	ND WATER AV	AILABILITY CONSIDERATIONS.	, OAR 690-310-130, 4	00-010, 410-0070
B1.	Bas	sed upon available	e data, I have determined that ground wate	er* for the proposed use:	
	a.	period of the	priated, is not over appropriated, or proposed use. * This finding is limited to a sprescribed in OAR 690-310-130;	cannot be determined the ground water portion	to be over appropriated during any n of the over-appropriation
	b.		will likely be available in the amounts rule the ground water portion of the injury		
	c.	will not or	will likely to be available within the cap	pacity of the ground wate	er resource; or
	d.	i.	erly conditioned, avoid injury to existing permit should contain condition #(s)	N in item 2 below.	;
B2.	a.	Condition to	o allow ground water production from no c	leeper than	ft. below land surface;
	b.	Condition to	o allow ground water production from no s	shallower than	ft. below land surface;
	c.	Condition to water reserve	allow ground water production only from bir between approximately ft. a	the ft. below	ground v land surface;
	d.	to occur with withholding i	truction is necessary to accomplish one or this use and without reconstructing are cit issuance of the permit until evidence of we d Water Section.	ted below. Without recon	nstruction, I recommend
		Describe injur senior water rig	y –as related to water availability– that is ghts, not within the capacity of the resource	likely to occur without we, etc):	ell reconstruction (interference w/
В3.	Gre	ound water availa	bility remarks: <u>Region Manager Ivan</u>	Gall recommends use o	of condition 7N in this basin.

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C. GR	OUND	WATER/SURFACE WATER CONSIDERATIO	NS, OAR 690-09-040	
C1. 69	0-09-04	40 (1): Evaluation of aquifer confinement:		
	Wel 1	Aquifer or Proposed Aquifer	Confined	Unconfined
	1	Basin-fill sediments; likely Qal of GW Report 16		

Wel l	Aquifer or Proposed Aquifer	Confined	Unconfined		
1	Basin-fill sediments; likely Qal of GW Report 16		\boxtimes		
		·	•		

Basis for aquifer confinement evaluation:	Regionally, this aquifer is unconfined and ground water ultimately	
discharges to Malheur Lake.		

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	Trib to Ninemile Slough	4090±	4114	5000		
1	2	Ninemile Slough	4090±	4111	7400		

Basis for aquifer hydraulic connection evaluation:	Memo by Ivan	Gall of 1/15/2008	indicates that Nir	<u>ıemile & Malheur</u>
Sloughs should not be considered for Division 9 rev	views.			

Water Availability Basin the well(s) are located within: Ninemile Sl. > Malheur Sl. ab Malheur Lake (31200103).

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?
Com	ments: _	This sect	ion does	not apply.						

Comments:	This section do	es 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	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				
Distril	buted 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 O	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
,	rence CFS												
$(\mathbf{A}) = \mathbf{T}\mathbf{c}$	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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S; (D) = highlight the check	mark for each month where (A) is gre	at 80% exceed. as CFS; $(C) = 1\%$ of calculated natural flow at 80% exceed. as eater than (C) ; $(E) = \text{total interference divided by 80% flow as percentage.}$
b. 690-09-040 (5) (b) Rights Section.	The potential to impair or detri	imentally affect the public interest is to be determined by the Wat
under this permit ca i. The per	n be regulated if it is found to submit should contain condition #(s)	can be adequately protected from interference, and/or ground water us stantially interfere with surface water:
ii. The per	mit should contain special condition	on(s) as indicated in "Remarks" below;
5. SW / GW Remarks and	l Conditions	
		s, including especially G-16820; GW Report 16, by Leonard, 1970
		f the Burns Quadrangle, Oregon, USGS Miscellaneous Geologic 08: Stream Assessment for Division 9 Review in the Malheur

	ELL CONSTRUCTIO	N, OAR 690-200	
D1.	Well #:	Logid:	
D2.	a. review of the vb. field inspectionc. report of CWR	meet current well construction standards based upon: well log; n by RE	
D3.	b. commingles w.c. permits the los d. permits the de-	tion deficiency: ealth threat under Division 200 rules; ater from more than one ground water reservoir; es of artesian head; -watering of one or more ground water reservoirs;	
D4.	THE WELL construct	tion deficiency is described as follows:	
D5.	THE WELL a.	was, or was not constructed according to the standards in effect a original construction or most recent modification.	t the time of
	b.	I don't know if it met standards at the time of construction.	
D6. [ment Section. I recommend withholding issuance of the permit until evident and approved by the Enforcement Section and the Ground Water Section.	
THIS	SECTION TO BE CO	OMPLETED BY ENFORCEMENT PERSONNEL	
D7. [Well construction defici	iency has been corrected by the following actions:	
			, 200
	(Enforcement S	Section Signature)	

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