PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS TO: Water Rights Section Date___ March 2, 2006 Ground Water/Hydrology Section Michael Zwart FROM: Reviewer's Name Supersedes review of N/A SUBJECT: Application G- 16597 Date of Review(s) **PUBLIC INTEREST PRESUMPTION; GROUNDWATER** OAR 690-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation. Applicant's Name: Jeff Maupin County: Harney A. GENERAL INFORMATION: Applicant(s) seek(s) 1.0 cfs from one well(s) in the Malheur Lake A1. Quad Map: Crane subbasin Proposed use: Irrigation Seasonality: March 1 to October 31 A2. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid): A3. Applicant's Proposed Proposed Location Location, metes and bounds, e.g. Well Logid (T/R-S QQ-Q) Well# Aquifer* Rate(cfs) 2250' N, 1200' E fr NW cor S 36 1 **HARN 1050** 1 bedrock 1.0 24S/33E-36 NW-SE 3880' S, 1340' W fr NE cor S 36 2 3 4 5 Alluvium, CRB, Bedrock Well First Well Well Seal Casing Liner Perforations Draw **SWL** SWL Test Well Elev Water Depth Interval Intervals Yield Intervals Or Screens Down ft bls Date Type ft msl ft bls (ft) (ft) (ft) (ft) (ft) (gpm) (ft) 10/12/04 4131 470 44 505 0-19 0-180 1 None None 200 70 P Use data from application for proposed wells. Comments: Well was deepened (HARN 51090). A4.

management of ground water hydraulically connected to surface water \square are, or \boxtimes are not, activated by this application.

A5. Provisions of the Malheur Lake

Comments:

Comments: ___

A6. Well(s) #

(Not all basin rules contain such provisions.)

Version:: 08/15/2003

Basin rules relative to the development, classification and/or

Applic	ation	G- <u>16597</u>	continued	Date: Mar	ch 2, 2006						
В. <u>GF</u>	ROUN	ND WATER AVA	ILABILITY CONSIDERATION	VS, OAR 690-310-130, 40	00-010, 410-0070						
B1.	Bas	sed upon available (data, I have determined that ground wa	nter* for the proposed use:							
	a.	period of the p	riated, is not over appropriated, or roposed use. * This finding is limited as prescribed in OAR 690-310-130;								
	ъ.	☐ will not or ☐ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the ground water portion of the injury 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.	i. 🛭 The p ii. 🔲 The p	rly conditioned, avoid injury to existing the condition of the condition of the conditioned as indicated the conditioned as indicated the condition of the cond	7C ed 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 fro								
	d.	occur with this issuance of the Water Section.		ed below. Without reconstru- uction is filed with the Depar	ction, I recommend withholding tment and approved by the Ground						
			-as related to water availability- that ts, not within the capacity of the resour								
			### ## HI ###								
В3.	Gr	ound water availab	ility remarks:	to average of the contract of	<u> </u>						
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Date	March 2	2006	
Date.	IVIALUII Z	2000	

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	Pumice, cinders, basalt		

Basis for aquifer confinement evaluation: <u>The static water level is well above the water-bearing zone and the aquifer is overlain by a significant thickness of clay.</u>

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)	(ydraulically Connected? NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO		
1	_1	Crowcamp Creek	4087	4115	12800				X	
1	2	Malheur Lake	4087	4095	23500				X	

Basis for aquifer hydraulic connection evaluation: <u>Malheur Lake is the regional discharge area for the ground-water flow system, however, the hydraulic connection is likely to be diffuse and indirect, as ground water moves through interbedded and overlying sediments.</u>

Water Availability Basin the well(s) are located within: No WAB data at the well site.

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?
						<u></u>				
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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.

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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:	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-Dist Well	SW#	Vveiis Jan	Feb	Mar	Λ	Man	T	Jul	A	C	0-4	NT	Des
Well	5 W #	Jan %	reo %	Mar %	Apr %	May %	Jun %	Jui %	Aug %	Sep %	Oct	Nov	Dec %
W !! O	ana	70	70	74	70	70	70	70	70	70	º/a	%	1/0
Well Q as													
Interference	e CFS												
Distribut	ed Well	S											
Well	SW#	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	9/6	%	%	%	%	0/a	%	0/0	%
Well Q as	CFS												
Interference	e CFS												
		%	%	%	%	%	%	%	e/a	0/0	%	0/4	%
Well Q as	CFS												
Interference													
		%	0/0	%	4/6	%	1/0	%	%	"/a	%	9/B	%
Well Q as	CFS												
Interference	e CFS								V				
		%	ū/ ₀	9/6	%	%	%	0/0	%	1/0	0/0	9/0	9/0
Well Q as	CFS												
Interference	e CFS						i						
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Well Q as	CFS												
Interferenc	e CFS												
		%	%	9/0	%	%	n/ ₀	9/0	%	%	9/4	%	9/11
Well Q as	CFS				10								
Interferenc	e CFS	j											
4.5. 000 . 0													
(A) = Total													
(B) = 80 %													
(C) = 1 % 1	Nat. Q												
(D) = (A) >	·(C)	7	7	1	1	V.	1	1	V	1	1	1	1
$\frac{(B) = (A/B)}{(E) = (A/B)}$		%	%	9/0	1/0	1/6	%	%	9/0	9/0	9/0	%	1/0
						7° 200/		, CEC. (C			. 10	. 000/	

(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.

pplication G- <u>16597</u>	continued	Date: March 2, 2006
use are not adequate to	non: <u>This section likely</u> calculate impacts.	applies. However, I believe that the Jenkins/Hunt models currently in
and mid iide adequate to	outediate impacts.	
	5.7.8	
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		<u> </u>
-	***************************************	
4b. 690-09-040 (5) (b) T Rights Section.	he potential to impair or	detrimentally affect the public interest is to be determined by the Wat
under this permit can b	ed, the surface water source e regulated if it is found to t should contain condition	re(s) can be adequately protected from interference, and/or ground water use substantially interfere with surface water:
ii. The permi	should contain condition should contain special co	m(s)
– .		(- <i>,</i>
5. SW / GW Remarks and C	onditions	
(d.) (d.)		
	<u> </u>	140 313 V 93 3 3357 W
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References Used: Recen	t nearby application revi	iews; local well logs; GW Report # 16; WSP #841.
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Appli	tion G-16597 Continued Date: March 2, 2006	_
D. <u>W</u>	LL CONSTRUCTION, OAR 690-200	
D1.	Well #:1 Logid:HARN 1051/51090	_
D2.	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)	
D3.	THE WELL construction deficiency: a.	
D4.	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.	
D6.	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	_
D7.	Well construction deficiency has been corrected by the following actions:	
		_
		_
		_
		_
	, 200	.58
	(Enforcement Section Signature)	-
D8. [Route to Water Rights Section (attach well reconstruction logs to this page).	
		-

WATER RESOURCES DEPARTMENT

MEM	0							10	arch	2,2	006
TO:	M:	Application G-16597 GW: Michael Zwart (Reviewer's Name)									
SUBJ	ECT:		,		,	— ice Eva	lustion				
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	_YES										
1/	NO	Use the	e Scenio	Water	way con	dition (Condition	on 7J)			
		RS 390.8									ter
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		RS 390.8 rence w									
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informi	ng Water	Rights th	at the De	partment	is unable	to make	a Prepon	derance (of Eviden	ce finding	3-
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