PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water Rights Section						Date	January	9, 2009		
FROM:		Grou	nd Water/	Hydrology	Section							
SUBJE	CT:	Appli	cation G-	17120			ewer's Name persedes rev	view of		Date of Rev	view(s)	
OAR 69 welfare, to determ	00-310-1 <i>safety ar</i> mine whe	30 (1) <i>I ad heal</i> ether the	The Depart th as descr e presumpt	<i>ibed in ORS</i> ion is establi	resume tha 537.525. D shed. OAR	<i>t a propose</i> Department 2 690-310-	ed groundwa staff review 140 allows tl	ground wate he proposed	ensure the press er applications use be modified cies in place at	under OA l or condi	R 690-31 tioned to	10-140 meet
A. GEN	ERAL IN	NFORN	MATION:	Applicant's	Name: Jo	nathan ar	nd Margarit	ta White	County: H	<u>larney</u>		
A1.	Applica	nt(s) se	ek(s) 1.5	cfs f	rom <u>one</u>	_well(s) in	the	Malheur L	ake			_Basin,
	F	Poison	Creek Slo	ugh		subb	oasin Qua	ad Map: <u>Ni</u>	nemile Slough			
A2. A3.				igation, 125 ach and nu				March 1-0 rk proposed	ectober 31 wells as such	under log	gid):	
Well	Logi	id	Applicant	's Propose	d Aquifer*	Propose		Location		n, metes a		
1	Propo		Well #	_	in Fill	Rate(cfs				' N, 1200' E fr NW cor ' N, 1815' E fr SW co		
2 3												
4												
5 * Alluvin	m, CRB,	Dadraal	7									
Alluviu	iii, CKD,	Bedroci	Λ.									
Well	Well Elev ft msl	First Water ft bls	r 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	4135				250	0-18	0-80					
Use data			for proposed									
A5. 🖂	manager	ment of		ater hydrauli	cally conne	ected to sur	Basin ru	les relative to ☐ are, or ☐	o the developmod are not, activ	ent, classi ated by th	fication a	and/or ation.
				n such provi								
A6. 🗌	Name of	f admir	nistrative an	rea:					er limited by an	administr	rative res	triction.
	Comme	nts:										

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Bas	ased upon available data, I have determined that ground water* for the proposed use:						
a.	is over appropriated, is not over appropriated, or cannot be determined to be over appropriated during period of the proposed use. * This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;						
b.	will not or will likely be available in the amounts requested without injury to pris limited to the ground water portion of the injury determination as prescribed in O.						
c.	\square will not or \square will likely to be available within the capacity of the ground water re	esource; or					
d.	will, if properly conditioned, avoid injury to existing ground water rights or to the i. The permit should contain condition #(s)						
a.	Condition to allow ground water production from no deeper than	ft. below land surface;					
b.	Condition to allow ground water production from no shallower than	ft. below land surface;					
c.	Condition to allow ground water production only from the water reservoir between approximately ft. and ft. below la	ground ground surface;					
d.	■ Well reconstruction is necessary to accomplish one or more of the above condition to occur with this use and without reconstructing are cited below. Without reconstructing withholding issuance of the permit until evidence of well reconstruction is filed with by the Ground Water Section.	uction, I recommend					
	Describe injury –as related to water availability– that is likely to occur without well senior water rights, not within the capacity of the resource, etc):						
Gro							
Gro	senior water rights, not within the capacity of the resource, etc):						
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Gro	senior water rights, not within the capacity of the resource, etc):						

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Date: January 9, 2009

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				ected to the surface								
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						1					Potentia	al for
	SW				GW	SW	Distance		ydraulicall		Subst. In	
Well	#	S	urface W	ater Name	Elev	Elev	(ft)		Connected?		Assum	
					ft msl	ft msl	, ,	YES	NO ASSU	MED	YES	N
1	1			(WAB 31200105)	4115±	4135	500					
1	2	Rattlesna	ke Creek	(WAB 31200104)	4115±	4140	4800					
								<u> </u>	<u> </u>			
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Confined

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Unconfined

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Well

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

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

Aquifer or Proposed Aquifer

Basin-fill sediments; likely Qal/Qvs of GW Report 16

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C3b. **690-09-040 (4):** Evaluation of stream impacts <u>by total appropriation</u> 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.

 	m and mint	т.	pry us in est						
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.

	stributed V		Б.1	3.6		3.6		T 1		C	0.4	N.T.	ъ
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
Distrib	uted Wells												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
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Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
(A) = To	tal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) = (A	A) > (C)	✓	√	✓	√	✓	✓	√	√	√	√	√	√
$(\mathbf{E}) = (\mathbf{A}$	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

(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.

Basis for impact evaluation:

5

plication: G- 17120 continued	Date: <u>January 9, 2009</u>
6. 690-09-040 (5) (b) The potential to impair or detrimentally Rights Section.	affect the public interest is to be determined by the W
☐ If properly conditioned, the surface water source(s) can be ade	
under this permit can be regulated if it is found to substantially it	
 i. The permit should contain condition #(s) ii. The permit should contain special condition(s) as in 	
ii. The permit should contain special condition(s) as in-	dicated in "Remarks" below;
SW / GW Remarks and Conditions:	
References Used: <u>Local well logs; local recent reviews, includin</u> <u>Leonard, 1970; Greene, Walker, and Corcoran, 1972, Geologic I</u> <u>Miscellaneous Geologic Investigations Map I-680; Memo by Ivan</u>	Map of the Burns Quadrangle, Oregon, USGS
Review in the Malheur Lakes Basin.	, ,
AND TAKE IN THE PRODUCTION OF	

D1.	Well #:	Logid:
D2.		LL does not meet current well construction standards based upon:
		eview of the well log;
	0. 11 c re	ield inspection by
	d. o	ther: (specify)
D3.		LL construction deficiency:
		onstitutes a health threat under Division 200 rules;
		ommingles water from more than one ground water reservoir;
	c. po	ermits the loss of artesian head;
		ermits the de-watering of one or more ground water reservoirs; ther: (specify)
	С	mer. (speeny)
D4.	THE WE	LL construction deficiency is described as follows:
D		
D5.	THE WE	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.
D6. [the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction the Department and approved by the Enforcement Section and the Ground Water Section.
THIS	SECTION	TO BE COMPLETED BY ENFORCEMENT PERSONNEL
	_	
D'/. L	_ Well const	truction deficiency has been corrected by the following actions:
	-	
	-	
	-	
		, 200
	(H	Enforcement Section Signature), 200, 200

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SOLDIER CR> POISON CR SL- AT MOUTH MALHEUR LAKE BASIN

Water Availability as of 1/8/2009

Watershed ID #: 31200105

Exceedance Level:

8

Date: 1/8/2009 Time: 11:41 PM

Water Availability Calculation Consumptive Uses and Storages Instream Requirements Reservations Water Rights Watershed Characteristics

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	0.74	0.08	0.66	0.00	0.00	0.66
Feb	2.61	0.17	2.44	0.00	0.00	2.44
Mar	5.35	5.52	-0.17	0.00	0.00	-0.17
Apr	9.72	25.40	-15.70	0.00	0.00	-15.70
May	6.36	64.30	-57.90	0.00	0.00	-57.90
Jun	3.48	52.10	-48.60	0.00	0.00	-48.60
Jul	0.73	17.30	-16.60	0.00	0.00	-16.60
Aug	0.26	6.97	-6.71	0.00	0.00	-6.71
Sep	0.16	3.61	-3.45	0.00	0.00	-3.45
Oct	0.13	1.76	-1.63	0.00	0.00	-1.63
Nov	0.28	0.04	0.24	0.00	0.00	0.24
Dec	0.52	0.05	0.47	0.00	0.00	0.47
Storage Acre-Feet at 50%	4,530.00	10,700.00	1,770.00	0.00	0.00	1,770.00

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RATTLESNAKE CR> NINEMILE SL- AT MOUTH MALHEUR LAKE BASIN

Water Availability as of 1/8/2009

Watershed ID #: 31200104

Date: 1/8/2009 Time: 11:42 PM

Exceedance Level:

Water Availability Calculation

Consumptive Uses and Storages

Instream Requirements

Reservations

Water Rights

Watershed Characteristics

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	0.69	0.16	0.53	0.00	0.00	0.53
Feb	1.80	0.35	1.45	0.00	0.00	1.45
Mar	3.61	1.54	2.07	0.00	0.00	2.07
Apr	7.23	4.11	3.12	0.00	0.00	3.12
May	5.58	9.01	-3.43	0.00	0.00	-3.43
Jun	2.68	6.65	-3.97	0.00	0.00	-3.97
Jul	0.74	1.36	-0.62	0.00	0.00	-0.62
Aug	0.32	0.08	0.24	0.00	0.00	0.24
Sep	0.26	-0.09	0.35	0.00	0.00	0.35
Oct	0.27	0.11	0.16	0.00	0.00	0.16
Nov	0.41	0.06	0.35	0.00	0.00	0.35
Dec	0.56	0.10	0.46	0.00	0.00	0.46
Storage Acre-Feet at 50%	3,510.00	1,420.00	2,190.00	0.00	0.00	2,190.00

