PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights So	ection				Date	<u> </u>	une 25,	2008		
FROM:		Groun	nd Water/I	Hydrology	Section _		ael Zwart					110	
a	O.T.			4=00=			ewer's Name	+ C					
SUBJE	CT:	Appli	cation G	17005		Sup	persedes re	view of			Date of Re	view(e)	
OAR 69	0-310-1	30 (1) 7	he Departi	MPTION; ment shall p	resume tha	it a proposi	ed groundw	ater use will o	<i>ensure</i> er appli	the prese	ervation o	of the pub	olic 0-140
to deteri	nine who	ether the	presumpti	on is establ	ished. OAP	८ 690-310-1	i 40 allows t	he proposed i I agency poli	use be	modified	or condi	tioned to	meet
A. <u>GE</u> I	NERAL	INFO	RMATIC	<u> </u>	pplicant's l	Name:	Patti Wils	on			County:	Harney	
A1.	Applica	ınt(s) se	ek(s) <u>0.66</u>	65 cfs from	m <u>one</u>	well(Malheur L				<u> </u>	_Basin,
A2. A3.						Seas	onality:	March 1 to	Octo	ber 31 _	nder lo	oid).	
Well	Log		Applicant Well #	's Pr	oposed quifer*	Propose Rate(cf	ed	Location /R-S QQ-Q)		Location	, metes :	and boun	
1	HARN	837	1	Basin-fill Seds.		0.665			SE	860' S, 820' E fr CS 1			
3	<u> </u>								-				
4						+			_				
5				+								-	
	ım, CRB,	Bedrock	C			•	•					_	
Well	Well Elev ft msl	First Water	SWL Oble	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Or S	orations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	4165	36	25	6/6/80	425	0-50	0-142	None	100-1		800	160	P
<u> </u>													
Use data	from app	lication	for proposed	wells.									
A4.	Comm	ents: <u>W</u>	ell was de	epened (HA	ARN 835).								
				1.6			- 1,300				50.00		
A5. 🛛	Provis	ions of	the <u>Malhe</u>	ur Lake	ically conn	acted to cu	Basin r	ules relative t	to the d	levelopm	ent, class	ification	and/or
	(Not all	l basin r	ules contai	n such prov	isions.)			are, or					
A.C. 🗆	3V-11(-)	. 41		0.000				(-)	San Hand	tod hu an	a desimina	Latina sa	·····
A6. □	Name o	of admir	nistrative ar	ea:				ap(s) an aquif					SUICUON.

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<u>our</u>	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 40	0-010, 410-0070								
Bas	sed upon available data, I have determined that ground water* for the proposed use:									
a.	is over appropriated, is not over appropriated, or is cannot be determined to be over appropriated during any 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.										
c.	will not or will likely to be available within the capacity of the ground water r	esource; or								
d.	will, if properly conditioned, avoid injury to existing ground water rights or to the i. The permit should contain condition #(s) 7N ii. The permit should be conditioned as indicated in item 2 below. iii. The permit should contain special condition(s) as indicated in item 3 below.									
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	ground								
	Condition to allow ground water production only from the water reservoir between approximately ft. and ft. below?	and surface;								
	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):									
Bas tha	ound water availability remarks: <u>Region Manager Ivan Gall recommends use of sin. Nearby SOW 174 (HARN 813) displays reasonably stable water levels. Current in the 1970s. There may be a decadal-scale climatic signature to the hydrograph cutations appear to be greater sinct the mid-1980s, but this may be in part a result of the mid-1980s.</u>	nt levels are not much different Seasonal water-level								
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Date: June 25, 2008

_____ continued

Application G-17005

	10 (1):	Evaluation of aquifer confinement						,			
Well		Aquifer or Proposed A			C	onfined	i	U	nconfined	l	
1	Valle	y fill deposits and possibly volcar									
									<u> </u>		
						Ä			一一		
Racic for	· sanif	er confinement evaluation: Reg	ionally th	e hasin-fil	l agnifor is 1	ıncanfii	ned and	l discharge	e to Malh	our	
		discharge may be to surface was					ilea aire	oisenar ge	.5 to 1114111	Cui	
								90	360		
		(3): Evaluation of distance to, and									
horizon	tal dist	ance less than ¼ mile from a surfac	e water so	urce that pr	oduce water	from ar	unconi	fined aquife	er shall be		
horizon assume	tal dist d to be	ance less than ¼ mile from a surface hydraulically connected to the surface.	e water so	urce that pr	oduce water	from ar	unconi	fined aquife	er shall be		
horizon assume	tal dist d to be	ance less than ¼ mile from a surfac	e water so	urce that pr	oduce water	from ar	unconi	fined aquife	er shall be eyond one	mile	
horizon assume	tal dist d to be evalua	ance less than ¼ mile from a surface hydraulically connected to the surface.	e water so	urce that pr	oduce water ude in this ta	from ar	stream:	fined aquife s located be	er shall be eyond one Potenti	mile al fo	
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C the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not dist 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. 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.

	istributed												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	=	%	9/4	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
Distrib	uted Well	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	11/0	%	%	%	%
Well Q	as CFS												
	nce CFS												
		1%	1/u	%	%	%	%	%	°/o	º/o	%	9/0	%
Well Q	as CFS												
	ence CFS												
		8/6	11/0	11/0	¶/ ₀	%	9/0	n/a	0/n	9/0	9/0	%	%
Well Q	as CFS	İ											
Interfere	nce CFS						_						
		%	9/0	0/0	¶/6	%	%	9/0	11/0	%	%	%	%
Well Q	as CFS												
	nce CFS												
		%	9/0	9/0	9/10	%	%	%	11/0	%	%	%	%
Well Q	as CFS		6										
Interfere	nce CFS												
(A) = To	tal Interf.												
	% Nat. Q	-	·	9,									
	% Nat. Q			2.2									
(D) = (A		×	V	√	1	4	4	1	V	V	~	V	1
(E) = (A	/ B) x 100	%	%	9/0	%	%	%	%	%	%	%	%	9/4

(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.

ation G-1/005 continued	Date: <u>June 25, 2008</u>
Basis for impact evaluation:	
1 1 - W 1	

1907	
690-09-040 (5) (b) The potential to impair or detrimentally affect the	e public interest is to be determined by the \
Rights Section.	•
If properly conditioned, the surface water source(s) can be adequately pr	rotected from interference, and/or ground water
under this permit can be regulated if it is found to substantially interfere w	ith surface water:
i. The permit should contain condition #(s)	
ii. The permit should contain special condition(s) as indicated in	"Remarks" below;
* **	·
/ / GW Remarks and Conditions	
7 GW Remarks and Conditions	
	1000
	44.2
	99.4

- 100 CONTROL	
200-200-200-200-200-200-200-200-200-200	
	300 300
	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
ferences Used: <u>Local well logs; local recent reviews; GW Report 16, l</u> rcoran, 1972, Geologic Map of the Burns Quadrangle, Oregon, USGS	Miscellaneous Geologic Investigations Map
; Memo by Ivan Gall, 1/15, 2008, Stream Assessment for Division 9 Re	view in the Malheur Lakes Basin.

D. <u>'</u>	WELL CON	NSTRUCTION,	, OAR 690-200	
D1.	Well #:	1	Logid: <u>HARN 837/835</u>	
D2.	a.	review of the well field inspection b report of CWRE	eet current well construction standards based upon: log;	
D3.	a. b. c. d.	commingles water permits the loss of permits the de-water	Ith threat under Division 200 rules; er from more than one ground water reservoir;	
D4.	THE W	ELL construction	n deficiency is described as follows:	
	is filed v	b. to the Enforcement with the Department	ent Section. I recommend withholding issuance of the permit until evidence of well rent and approved by the Enforcement Section and the Ground Water Section.	econstruction
TH	IS SECTIO	ON TO BE COM	APLETED BY ENFORCEMENT PERSONNEL	
D7.	☐ Well cor	nstruction deficien	ncy has been corrected by the following actions:	
	<u> </u>			
	· ·			
				, 200
		(Enforcement Sec	ction Signature)	
D8.	Route t	to Water Rights S	Section (attach well reconstruction logs to this page).	

Date: June 25, 2008

Application G-17005

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WATER RESOURCES DEPARTMENT

MEM	О							J	une:	25,2	00_8
TO:		Applic	eation C	1700	15						
FRON	1 :	GW:_	Mike	Zwa.	+						
SUBJ	ECT:	GW: Mike Zwart (Reviewer's Name) Scenic Waterway Interference Evaluation									
	YES										
	NO	The so	urce of	appropr	iation is	within	or abov	e a Scei	nic Wat	erway	
	_140										
	YES										
/	NO	Use the	e Scenic	Water	way con	dition (Condition	on 7J)			
	Don Of	200	025 tha	Granna	Water	Saatian	ia abla	40	.1_4		4
	interfe	rence w	ith surfa	ice wate	er that c	Section on tribut					ter
	calcula	ited inte	rference	e is distr	ributed l	below.					
						Section ontribut					
	the De	partme	nt is un	able to	find th	at there	e is a pr	eponde	rance o	f evide	
						bly redi ing cha					
		ON OF				h and fill	in the tab	le below.	If interfe	rence cai	not be
calculai	ed, per c	riteria in	390.835,	do not fil	I in the ta	ble but ci to make	heck the	'unable"	option al	ove, thus	;
Exerci	se of thi	is permi	t is calc	ulated to	o reduce	e month	ly flows	in		5	Scenic
Water	way by		wing a	nounts		ed as a p			e consu		
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



Hydrograph for State Well HARN 813, State Observation Well # 174

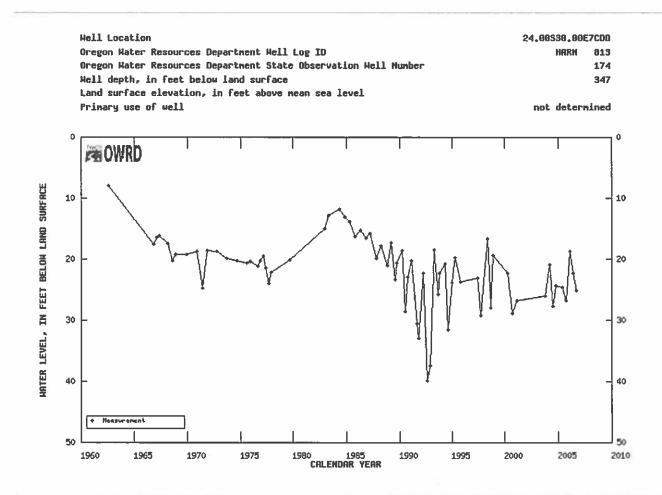


Table showing water-level data for State Well HARN 813, State Observation Well #174

