WATER RESOURCES DEPARTMENT 3/23 ,200 MEMO TO: Application G- 17443 FROM: Scenic Waterway Interference Evaluation SUBJECT: X YES The source of appropriation is within or above a Scenic Waterway NO × YES Use the Scenic Waterway condition (Condition 7J) NO Per ORS 390.835, the Ground Water Section is able to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below. X Per ORS 390.835, the Ground Water Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway. DISTRIBUTION OF INTERFERENCE Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in	Scenic
Waterway by the following amounts expressed as a proportion of the consumptive	use by
which surface water flow is reduced.	
and the state of t	

Jan	Feb	Mar	Apr	Мау	Fun	Jul	Aug	Sep	Oct	Nov	Dec
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PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	r Rights Se	ection				Date	<u>3/23/201</u>	.1		
FROM	1 :	Grou	nd Water/F	lydrology	Section	K. Li	te					
CLIDII	CT.	A 1:	antina C	17442			ewer's Name	:				
SUBJE	ECT:	Аррп	cation G	1/443		Su	persedes re	view oi		Date of Re	view(s)	
	- ~						_					
					; GROUNI						-Cal1	L.1: -
									ensure the preser applications i			
									use be modified			
									cies in place at			
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>N</u> : A	Applicant's N	lame:	David Rot	h	(County:	Deschu	ıtes
A1.	Applica	ınt(s) se	ek(s) <u>3.13</u>	cfs fro	om <u>2</u>	well((s) in the	Deschutes				_ Basin,
]	Hampto	on Valley			subb	asin Qu	ad Map: <u>W</u>	est of Hampto	n		
A2.	Propose	ed use:	Irris	ation		Seas	sonality:	April 1 – C	October 15			
A3.				ch and ni	ımber logs f	or existin	g wells; ma	rk proposed	wells as such	under log	gid):	
			Applicant	'e p	roposed	Propos	ed	Location	Locatio	n, metes	and hour	nds e a
Well	Log	id	Well #		quifer*	Rate(c		/R-S QQ-Q)		n, 11000' E N, 1200' E		
1	PROP9	99999	3		& Volcanics			S/20E-4ABD	1240'	S, 1930' V	V fr NW c	cor S 3
2	PROP9	99999	4	Seds	& Volcanics	1.56	22	S/20E-3BCB	1540'	' S, 660' E	fr NW co	or S 3
3												
5												
	ium, CRB,	Redrock	<u> </u>									
7111411	rum, eres,	Dearon	`									
	Well	First		SWL	Well	Seal	Casing	Liner	Perforations	Well	Draw	Test
Well	Elev ft msl	Water ft bls	r ft ble	Date	Depth (ft)	Interval (ft)	Intervals (ft)	Intervals	Or Screens (ft)	Yield	Down	Type
1	4430	It bis				Prop 40	Prop 40	(ft)	(11)	(gpm)	(ft)	1
^	1420				400	110p 40	1100 40					
2	4430					Prop 40	Prop 40					
					400							
										+		-
		17			-					-		-
Use data	a from app	lication	for proposed	wells.	<u>'</u>		_	·				
A 1	C	4 33	ELLOXUII	I DE CC		DD INTO	CEDIMEN	IOD A TO SZ. A SATE	NAME OF THE	DEDOG	rance XXVIIac	STITE A
A4.) VOLCANIC ELS ARE BEL			
									S UNCERTA			
					CAN VALLI							
A5.		ions of	the		1: 11		Basin rı	ales relative t	o the developm] are not, activ	ent, class	ification	and/or
			t ground wa rules contain			cted to su	rface water	□ are, or □	J are not, activ	ated by tr	us applic	ation.
							THE PARTY OF THE P					
A6. \Box	l W ALKA	. #					4.0	un(a) an aguif	ar limited by a	adminis	trative re-	etriction
ಗು. ∟	Name o	of admir	istrative are	: ea:	, ,	,	, ta	ip(s) an aquii	er limited by ar	i aummins	nauve 168	5ti (Ct1011.
	Comme	ents:										
										-		

plic	ation	G- <u>17443</u>	continued	Date	3/23/2011
<u>GR</u>	ROUN	ND WATER AV	AILABILITY CONSIDERATIONS	5, OAR 690-310-130, 40	<u>0-010, 410-0070</u>
1.	Bas	sed upon available	e data, I have determined that ground wa	<u>er</u> * for the proposed use:	
	a.	period of the	priated, is not over appropriated, or proposed use. * This finding is limited to as prescribed in OAR 690-310-130;		
	b.		will likely be available in the amounts the ground water portion of the injur		
	c.	will not or	will likely to be available within the ca	apacity of the ground water	resource; or
	d.	i. ⊠ The ii. □ The	permit should contain conditioned as indicated permit should contain special condition(s	B, 7E d in item 2 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 water reserve	allow ground water production only from between approximately ft.	and ft. below	ground land surface;
	d.	to occur with withholding i	ruction is necessary to accomplish one of this use and without reconstructing are c ssuance of the permit until evidence of w d Water Section.	ited below. Without recons	struction, I recommend
			y –as related to water availability– that is hts, not within the capacity of the resource		
	OR RE AN	PLANNED IN T LATIVELY LON D SHOWS A SLI	bility remarks: SEVERAL HIGH YI HE VICINITY OF THE WELLS ON T G-TERM MEASUREMENT RECOR GHT, STEADY DECLINE (3.5 FEET CSC 55145 HAS A SIMILAR TREND	THIS APPLICATION. T DS. DESC 53516 HAS BI OVER THE PERIOD O	WO NEARBY WELLS HAVE EEN MEASURED SINCE 1993 D RECORD. A ANOTHER

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	SEDIMENTARY AND VOLCANIC UNITS		\boxtimes
2	SEDIMENTARY AND VOLCANIC UNITS		\boxtimes

Basis for aquifer confinement evaluation: <u>THE WATER-BEARING UNITS MAY BE LOCALLY SEMI-CONFINED BECAUSE OF THE HETEROGENITY OF THE SEDIMENTARY DEPOSITS AND SPATIAL VARIABILITY IN PERMEABILITY INHERENT TO THE LAVA FLOWS.</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)	Hydraulically Connected? YES NO ASSUMED	YES NO
1	1	CAMP CREEK	Est. 4280	4500	63,360		
2	1	CAMP CREEK	Est. 4280	4500	63,360		

Basis for aquifer hydraulic connection evaluation: <u>GROUND WATER LEVELS ARE BELOW THE ELEVATION OF SPRINGS AND CAMP CREEK AT THE NEAREST DISTANCE.</u>

Water Availability Basin the well(s) are located within: 70358; S. FK CROOKED RIVER

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?

Version: 08/15/2003

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	Instream Water Right Q	Qw > 1%	80% Natural Flow	Qw > 1% of 80% Natural	Interference @ 30 days	Potential for Subst. Interfer.
		ID	(cfs)	ISWR?	(cfs)	Flow?	(%)	Assumed?

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		~ .				_						_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS							-)					
Interfere	ence CFS												
		- N								- 1970			
	uted Well		T 1				*				0 .		
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a													
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Well Q a	as CFS												
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											tulu		2 10
(A) = Tot	tal Interf.				F - 1								1/
(B) = 80	% Nat. Q												
(C) = 1 %			_										
(0) - 17	o ivali Q			0.00	- 1								
(D) = (A) > (C)	√.	1	✓	1	V	√	1	V	√	1	V	√
	/ 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.

690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wat under this permit can be regulated if it is found to substantially interfere with surface water. i. The permit should contain condition f(s) The permit should contain condition f(s) The permit should contain in special condition(s) as indicated in "Remarks" below; W/GW Remarks and Conditions GROUND WATER FLOW DIRECTION IS UNCERTAIN, BUT MAY BE OWARDS THE NORTHWEST (MILLICAN VALLEY). INTERFERENCE WITH THE NEAREST STREAM (GREEK) IS HIGHLY UNLIKELY GIVEN THE HYDRAULIC HEAD RELATION AND THE NEARBY CCURRANCE OF EARLY TO MIDDLE TENTIARY GEOLOGIC UNITS THAT ARE TYPICALLY HARACTERIZED AS BOUNDARIES TO REGIONAL GROUND WATER FLOW.	Basis for	impact eva	aluation: _									
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	References	s Used:U	JSGS GEO	DL MAP I-4	193; USGS	S WRIR 00	0-4162; OV	WRD GW		31; TO	PO MAPS:	; APP

Application G-17443 continued

Date 3/23/2011

D. WELL CONSTRUCTION, OAR 690-200

DI.		Well #: Logid:	
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:	
~-			<u> </u>
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. I don't know if it met standards at the time of construction.	
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.	n
TH	IS S	ECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	_
D7.		Well construction deficiency has been corrected by the following actions:	
			_
			_
		(Enforcement Section Signature), 200	<u> </u>
D8.		Route to Water Rights Section (attach well reconstruction logs to this page).	

G-17443: West of Hampton Quadrangle





