## WATER RESOURCES DEPARTMENT

MEM	Ю							Ju	re 5	,2	200_7	<u></u>
TO:		Applio	cation S		L - 10	<u>65</u>						
FRO	M: ECT:		Don (Re	wiewer's N	ame)	—	luation					
SUBJ	ECI.	Scenic	, water	way in	ici ici ci	ice isva	luativii					
	_YES	The so	urce of	annront	iation is	s within	or abox	ve a Sce	nic Wat	erway		
_ ১	_NO	, The se		шрргорг	iution i		or upo v		ino, wai	·		
	_YES	Use the	e Scenic	Water	way con	dition (	Conditie	on 7J)				
	_110											
	interfe	rence w	835, the ith surfa	ace wate	er that c	ontribut			-		iter	
8	the De	rence w partme	835, the ith surfact is ur	ace wate	er that c	ontribut at ther	es to a s e is a pr	scenic w eponde	aterway e <b>rance</b> (	y; there of evide	fore,	
			naintai			•						
Calcula calcula	RIBUTI ate the per ted, per c ing Water	centage riteria in	of consum 390.835,	iptive use do <mark>n</mark> ot fil	by monti	ible but c	heck the	"unable"	option al	bove, thu	<b>S</b>	е
Water	ise of thi way by surface	the follo	wing a	nounts					e consu		Sceni use b	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
										1	1	

Water Right Conditions	
Tracking Slip	
Groundwater/Hydrology Section  FILE # #LL - 1065  ROUTED TO:	June 5, 200 7 valuation
	nin or above a Scenic Waterway
Reviewer: Dom Male	
	n (Condition 7J)
interference with surface water that calculated interference is distributed  Per ORS 390.835, the Ground Water interference with surface water that the Department is unable to find that the proposed use will measure.	er Section is able to calculate ground water contributes to a Scenic Waterway. The d below.  er Section is unable to calculate ground water contributes to a scenic waterway; therefore, that there is a preponderance of evidence tably reduce the surface water flows wing character of a scenic waterway.
calculated, per criteria in 390.835, do not fill in the informing Water Rights that the Department is unab Exercise of this permit is calculated to redu	le to make a Preponderance of Evidence finding.
	Jul Aug Con Oct Nov. De-
Jan Feb Mar Apr May Jun	Jul Aug Sep Oct Nov Dec

## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	Vater Rights Section					Date	e <u>6/5/07</u>						
FROM:	:	Grou	nd Water/	Hydrology	Section _		Miller								
SUBJE	CT.	A1	ination C	TT 1065			iewer's Name	wiew of							
ZORIE	CI:	Appii	ication G-	LL-1065	<u>,                                     </u>	Su	persedes re	view of		Date of Re	view(s)				
OAR 69 welfare, to deterr the press	oo-310-1 safety a mine who umption NERAL	30 (1) 2 nd heal ether the criteria	The Depart th as descr e presumpt . This revi	ibed in ORS ion is establ ew is based ON: A	oresume the 537.525. ished. OAl upon ava	at a propos Departmen R 690-310- ilable infor Name:	eed groundwa t staff review 140 allows t rmation and	v ground wat he proposed l agency poli	ensure the preer applications use be modificated in place are received.	eservation of under OA	of the pub R 690-31 itioned to e of evalu	neet nation.			
						subb	asin Qu	ad Map:B	ridal Ve <u>il</u> and	l Multnon	nah Falls				
A2. A3.				ach and nu	mber logs	for existin	ng wells; ma			under lo	gid):				
Well	Log	id	Applican		oposed	Propos		Location		ocation, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36 600'N, 1230'W fr SE cor S 12					
1	MULT		Well # Benson S		quifer* edrock	Rate(c1		/R-S QQ-Q) <b>R5E-S12 SE</b> -				Basin,  h Falls  d):  nd bounds, e.g. r NW cor S 36			
2		10.2	20110011			1022									
3															
5															
_	ım, CRB,	Bedrock	k		_										
							<u>.</u>			777 11					
Well	Well Elev ft msl	First Water ft bls	r SWL	SWL Date	Well Depth (ft)	Seal Interval (ft)	Interval Intervals O		Perforations Or Screens (ft)	Well Yield (gpm)	Down				
1	40	176	21	3/26/73	184	0-31	0-57, 0-176		174-184	60	16	P			
								_							
Lian data	from one	liantian	for man 222	1110											
Use data	Irom app	lication	for proposed	i wells.											
A4. <u>final sw</u>				er log entry he level of t				reflects the	location of "	significant ———	<u>" water.</u>	<u>The</u>			
This use	from tl	his well	was previ	ously revie	wed for L	L-863. Th	e review is t	he same.							
		_													
A5. 🛚	manage (Not all	ment of basin r	ules contai		ically connisions.)	ected to sur	rface water	☐ are, or ⊠	o the develop	vated by th	is applica	and/or ation.			
A6. 🗌	Name o	f admir ents:	NA NA	ea:,				p(s) an aquif	er limited by a	n administ	rative res	triction.			

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B. <u>GR</u>	<u> OUN</u>	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
B1.	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.	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.	will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:  i.   The permit should contain condition #(s) 7G (per Sandy Basin rule in OAR 690-503-060)  ii.  The permit should be conditioned as indicated in item 2 below.  The permit should contain special condition(s) as indicated in item 3 below;
B2.	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 water reservoir between approximately ft. and ft. below land surface;
	d.	Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.
		Describe injury —as related to water availability— that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc):
В3.	Colinfo con	ound water availability remarks: The ground water supply is probably modulated by its proximity to the umbia River and other surface water sources. The strength of the connections are not clear from available ormation. The proposed use is small and should not place a burden on the supply. The implementation of dition 7G for water level and pumpage measuring and reporting will be a help when a permit application comes in the day.

Date 6/5/07\_\_\_\_\_

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application G-<u>LL-1065</u> continued

pplication G	- II-1065	continued
application G	- LL-1002	continued

Date	6/5/07				
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## 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	bedrock		

Basis for aquifer confinement evaluation: <u>well report information on MULT 1542. Semi-confined may be a better</u> description.

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 <u>unconfined aquifer</u> 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 ms1	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO
1	1	Columbia River	20	E20	400		
1	2	Wahkeena Creek	20	E20	400		
1	3	Benson Lake	20	E20	750		
1	4.	Fish Rearing Pond	20	E20	500		

Basis for aquifer l	hydraulic connecti	on evaluation: <u>T</u>	<u>he head relatioi</u>	<u>iships are very (</u>	<u>close between the</u>	<u>well and the</u>	
various surface w	ater source. The w	ell is in the mids	t of the various	sources. In sizi	ng up the log, I th	hink that there	
must be enough ve	ertical permeabilit	y locally to norm:	alize the heads.	I know that the	e log only indicat	es first water at	176
feet.				,			

Water	Availability	Dogin th	a wall(a) aw	located w	ithins	None
water	Avallability	Basin in	e well(s) are	· iocated w	ntnin:	None

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?
1	1	$\square$							NA	$\boxtimes$
1	2								NA ·	$\boxtimes$
1	3								NA	
1	4	$\boxtimes$							NA	
				_						
				_						

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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.

#	Qw > 5 cfs?	Water Right ID	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?
	<del>-</del>							<u> </u>

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.

Well Q as C Interference Well S Well Q as C Interference Well Q as C Interference	e CFS	Jan %	Feb %	Mar	Apr %	May %	Jun %	Jul %	Aug %	Sep %	Oct	Nov	Dec
Distribute Well Q as C Interference Well Q as C Interference	e CFS ed Wells		,,,	70	,,	, ,,		Ψ/ <b>α</b> Ι	Ψ/n	V/0	9/0	%	9/
Distribute Well Q as C Interference Well Q as C Interference	e CFS ed Wells							,,,		70			
Well Q as Conterference	ed Wells												
Well Q as C Interference Well Q as C Interference													
Well Q as C Interference Well Q as C Interference													
Well Q as C	~ 11 //	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Well Q as C		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as C	CFS												
Interference	e CFS												
Interference		%	%	%	%	%	%	%	%	%	%	%	%
Interference	CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as C	CFS												
Interference	e CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/0
Well Q as C	CFS												
Interference	e CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as C	CFS												
Interference	e CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as C	CFS												
Interference	e CFS												
(A) = Total I	Interf.		П						Т		Т		_
(B) = 80 % N													_
(C) = 1 % N	_												
$(\mathbf{D}) = (\mathbf{A}) > 0$	(()		ge <sup>2</sup>		No.	J.	4		V		ช้	1	<b>√</b>
$\frac{\mathbf{(B)} - \mathbf{(A)} > \mathbf{(E)}}{\mathbf{(E)} = \mathbf{(A/B)}}$						-	7	-	,				

(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.

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	uation: NA
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690-09-040 (5) (b) Rights Section.	The potential to impair or detrimentally affect the public interest is to be determined by the
under this permit can	oned, the surface water source(s) can be adequately protected from interference, and/or ground water be regulated if it is found to substantially interfere with surface water:
i. The per	mit should contain condition #(s) mit should contain special condition(s) as indicated in "Remarks" below;
	•
amsl. That said, the st water at 176 feet w	Conditions The head relationships from the available data are telling. All of the sources are well source appears to be connected to the surface water sources. The well report talks aborhich I view as inaccurate. There needs to be a head difference to convince me that there is
amsl. That said, the	e well source appears to be connected to the surface water sources. The well report talks abordich I view as inaccurate. There needs to be a head difference to convince me that there is
amsl. That said, the st water at 176 feet w	e well source appears to be connected to the surface water sources. The well report talks abordich I view as inaccurate. There needs to be a head difference to convince me that there is
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amsl. That said, the st water at 176 feet w	e well source appears to be connected to the surface water sources. The well report talks about thich I view as inaccurate. There needs to be a head difference to convince me that there is
amsl. That said, the st water at 176 feet w	e well source appears to be connected to the surface water sources. The well report talks about thich I view as inaccurate. There needs to be a head difference to convince me that there is
amsl. That said, the st water at 176 feet w	e well source appears to be connected to the surface water sources. The well report talks about thich I view as inaccurate. There needs to be a head difference to convince me that there is
amsl. That said, the st water at 176 feet w	e well source appears to be connected to the surface water sources.  Thich I view as inaccurate. There needs to be a head difference to co
. That said, the er at 176 feet w	e well source appears to be connected to the surface water sources. The well report talks about thich I view as inaccurate. There needs to be a head difference to convince me that there is
amsl. That said, the st water at 176 feet we nominal connection.	e well source appears to be connected to the surface water sources. The well report talks about thich I view as inaccurate. There needs to be a head difference to convince me that there is

App	lication	G- LL-	065continued Date 6/5/07
D. V	WELL	CONS	TRUCTION, OAR 690-200
D1.			Logid:
D2.	a. b. c.	☐ rev	L does not meet current well construction standards based upon: iew of the well log; d inspection by
	d.	otl	er: (specify)
D3.	a. b. c. d. e.	Co Co pe pe	L construction deficiency:  Institutes a health threat under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health threat under Under Division 200 rules;  Institutes a health
D4.	TF	HE WEL	L construction deficiency is described as follows:
	_		
D5.	TH	HE WEL	<ul> <li>a.  was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.</li> <li>b.  Idon't know if it met standards at the time of construction.</li> </ul>
D6.			ne 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.
ТН	IŜ SEC	CTION	TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7.	□ W	ell consti	action deficiency has been corrected by the following actions:
			, 200
		(E:	forcement Section Signature)
D8.	□ R	oute to V	Vater Rights Section (attach well reconstruction logs to this page).