## Water Right Conditions . Tracking Slip

Groundwater/Hydrology Section

FILE # # G-17632 ROUTED TO: Water Rights - Kerry TOWNSHIP/ RANGE-SECTION: 65/3W-1 cc
CONDITIONS ATTACHED?: [1) yes [] no
REMARKS OR FURTHER INSTRUCTIONS:  Reviewer: Mike Zwart

## WATER RESOURCES DEPARTMENT

ME	ON								lay 3	<u>, 0                                    </u>	20 <b>\$</b> 3_
TO: FRO SUB	M: JECT:		ication  Mike (E) (E) (E)		•		aluatioi	ı			
	_yes _no	The s	ource of	f approp	oriation	is withii	n or abo	ve a Sce	enic Wa	iterway	
	_YES _NO	Use tl	ne Sceni	c Water	rway co	ndition	(Condit	ion 7J)			
	Per Olinterfe the De	erence vated interested interested at the series of the se	.835, the with surference 835, the with surferent is understanding tails.	face wat the is dist the Ground face wat able to the will n	ter that of tributed d Water er that of the tributed of the tributed of the tributed areasura	contribut below.  Section contributiat ther lbly red	tes to a  is una tes to a e is a pouce the	Scenic ble to cascenic vereponda	Waterwalculate vaterwaerance e water	ground y; there of evide flows	water
Calculo calcula informi Exerci Water	te the per ted, per c ng Water se of th way by	rcentage riteria in Rights th is permi	INTER of consum 390.835, nat the De it is calc owing an	nptive use do not fit partment culated t mounts	e by mont ll in the to is unable to reduc	able but c e to make e month	heck the a Prepor ly flows	"unable" nderance s in	option a of Eviden	bove, thu ice findin	s g. Scenic
an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights Se	ction			DateMay 30, 2013							
FROM	:	Grou	nd Water/H	lydrology	Section_		ael Zwar							
SUBJE	CT:	Appl	ication G	17632			iewer's Name persedes 1	review of		Date of Re	wiew(e)			
OAR 69 welfare, to determ the press	90-310-1 safety a mine who umption NERAL	and head ether th criteria	th as descrite presumption. This revie	nent shall poed in ORS on is estable w is based N: A	presume the 537.525. ished. OAl upon ava	at a propos Departmen R 690-310- ilable infor	t staff revi 140 allows mation an	ew ground wa the proposed ad agency pol ke Investme	ensure the pre- ter applications use be modifie icies in place a nts, LLC	servation of sunder OA d or condi	of the pub AR 690-3 tioned to e of evalu	10-140 meet nation.		
Al.	Applica	ant(s) s€	eek(s) <u>1.0</u>	cts tro	m <u>one</u>	well subb		Willamett	e Iission Bottom			_ Basin,		
A2. A3.						Seas	sonality: _	September	1 to Novemb	er 30	gid):			
Well	Log	Proposed 1  Proposed 1  n, CRB, Bedrock		ogid Applicant's Proposed Well # Aquifer*		Propos Rate(cf		Location T/R-S QQ-Q)		n, metes a				
1 2	Propo	sed	1_		uvium_	1.0		6S/3W-1 SW-SW		770' N, 840' E fr SW cor S				
3														
5			_			_								
_	ım, CRB,	Bedrock	(											
Well	Well Elev ft msl	First Water ft bls	I tt ble	SWL Date	Well Depth (ft)	Seal Interval (ft) 0-25±	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft) 30-90±	Well Yield (gpm)	Draw Down (ft)	Test Type		
						_								
A4. propose	Comme	ents: <u>Pr</u> specific	cally hazeln	construct ut washing	g, which e	xplains the	limited se	ason. The wa	mates appear ash water will minor.	be divert	ed to set	tling		
A5. 🛚	manage (Not all	ment of basin r	ules contain	er hydrauli such provi	cally conn sions.)	ected to sur	face water	rules relative t	o the developn are not, activ	nent, class vated by th	ification a	and/or ation.		
A6. 🗌	Name o	f admin	istrative are	a:					er limited by an			triction.		

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. <u>GR</u>	OUN	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
31.	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.	☐ 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.	$\square$ will not or $\square$ 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) 7C  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;
2.	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.	<ul> <li>Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely 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 Grour Water Section.</li> <li>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):</li> </ul>
	Gro	ound water availability remarks:

Date: May 30, 2013

Application G-17632

\_\_\_\_\_continued

Application G- <u>17632</u>	_continued	Date: May 30, 2013

## 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	Alluvial sands and gravels		

Basis for aquifer confinement evaluation:	In this area, there is litt	le to no confining layer	consisting of Willan	<u>nette Silt.</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 PS1.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO
1	1	Deep Lake	100±	98	1400		
1	2	Finney and Egan Lake	100±	98	2600		
1	3	Willamette River	100±	90	11300		

Basis for aquifer hydraulic connection evaluation:	Locally, the groundwater elevation is nearly coincident with the
lakes and rivers, suggesting an efficient hydraulic c	onnection

Water Availability Basin the well(s) are located within: Willamette River > Columbia River ab Molalla River (182).

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 < ½ 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				n/a		3830		<25%	
1	2				n/a		3830		<25%	
									_	
									<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

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:	_	_			_	<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	istributed SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
***	<u> </u>	%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CES				_			_					
	ence CFS											_	
Distrib	uted Well	s											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	- %
Well Q	as CFS												
Interfere	ence CFS												
_		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
(A) = To	tal Interf.												
	% Nat. Q			-									
	% Nat. Q												
(D) = (A		0/	0/	0/	0/	0/	0/	0/	%	%	%	%	%
$(\mathbf{E}) = (\mathbf{A}$	/ B) x 100	%	%	%	%	%	%	%	<b>%</b>	%	<b>%</b> 0	<u> </u>	%

(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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plication G- <u>17632</u>	continued	Date: May 30, 2013
Pasis for impost a	aluation	
Basis for impact ev	aluation:	<del></del>
<del> </del>		
. 690-09-040 (5) (t Rights Section.		tally affect the public interest is to be determined by the W
under this permit	tioned, the surface water source(s) can be can be regulated if it is found to substantial ermit should contain condition #(s)	adequately protected from interference, and/or ground water ally interfere with surface water:
	ermit should contain special condition(s)	as indicated in "Remarks" below;
		_
References Used: <u>G</u> Lowland Aquifer Sys	annett, Marshall W., and Caldwell, Rotem, Oregon and Washington: U.S. Ge	dney R., 1998, Geologic Framework of the Willamette eological Survey Professional Paper 1424-A, 32p, 8 plates
Conlon and others, 20 Investigations Report		illamette Basin, Oregon: U.S Geological Survey Scientific
	s, 1998, Hydrogeologic framework of the bological Survey Professional Paper 1424	ne Willamette lowland aquifer system, Oregon and 4-B,
Nearby well loos and	recent reviews, notably G-17469.	
THE TOTAL WELL TO BE A HU	recent reviews, notably U-1/407.	
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Applic	lication G-17632 continued	Date: May 30, 2013
D. W	WELL CONSTRUCTION, OAR 690-200	
D1.	Well #: Logid:	
D2.	THE WELL does not meet current well construction standard	s based upon:
	a. review of the well log;	
	b.  field inspection by c.  report of CWRE	
	d. other: (specify)	
D3.	THE WELL construction deficiency:	
	a.   constitutes a health threat under Division 200 rules;	
	b commingles water from more than one ground water reser	voir;
	c. permits the loss of artesian head;	
	<ul> <li>d.  permits the de-watering of one or more ground water rese</li> <li>e.  other: (specify)</li> </ul>	
	c onto (speeny)	
D4.	THE WELL construction deficiency is described as follows:	
D4.	THE WELL construction deficiency is described as follows:	
		<del>-</del>
D5.	THE WELL a. $\square$ was, $or$ $\square$ was not constructed according	
	original construction or most recent m	odification.
	b. I don't know if it met standards at the	time of construction.
	_	
D6. [	Route to the Enforcement Section. I recommend withholding is	
	is filed with the Department and approved by the Enforcement Sec	non and the Ground water Section.
THIS	IS SECTION TO BE COMPLETED BY ENFORCEMENT	PERSONNEL
D7. [	☐ Well construction deficiency has been corrected by the following a	ctions:
		, 200
	(Enforcement Section Signature)	,
D8. [	☐ Route to Water Rights Section (attach well reconstruction log	s to this page)
Ju. [	I Noute to water regard section (attach well reconstruction log	to this page).

