## Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE #	#_	G-	17	124

ROUTED TO: WRS

TOWNSHIP/

RANGE-SECTION: T395/R19E-15

CONDITIONS ATTACHED?: [x] yes [] no

REMARKS OR FURTHER INSTRUCTIONS:

Potential for Substantial Interference

see item C6.

Reviewer: Donn Miller

## WATER RESOURCES DEPARTMENT

MEM	Ю							Fel	bruary	18-,	20 <b>\$ 10</b>
TO:		Appli	cation (	G- 17	/24						
EDO	M.										
FRO	VI:	GW: Donn Willer (Reviewer's Name)									
SUBJ	ECT:	Sceni	c Water	way In	terfere	nce Eva	luation	l			
									•		
	Tma										
	_YES	The so	ource of	approp	riation i	s within	or abov	ve a Sce	nic Wa	terway	
8	The source of appropriation is within or above a Scenic Waterway  NO										
	YES										
	Use the Scenic Waterway condition (Condition 7J)										
	_NO										
<b>-</b>	interfectalcular  Per Olinterfecthe Details	rence wated into	vith surferferences 835, the vith surferent is unosed us	ace water is districted ace water to the control of	er that cributed  d Water er that crimd the neasura	Section ontribut Section ontribut at ther bly red ing cha	is unal tes to a se is a pruce the	Scenic V ble to ca scenic w reponde surface	Waterwalculate vaterwalerance	ground y; there of evide flows	water
Calcula calcula	ted, per c	rcentage riteria in	of corisur 390.835,	nptive use do not fil	by mont	h and fill able but c e to make	heck the	"unable"	option a	bove, thu	5
Exerci	se of th	is nermi	it is calc	ulated t	o reduc	e month	· Iv flow	s in			Scenic
		•				ed as a p	•		e consu		
which	surface	water f	low is re	educed.				•			
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	ection				Dat	e <u>2/18/20</u> 1	0		
FROM	:	Grou	nd Water/	Hydrology	Section _		Miller_					
SUBJE	ECT:	Appl	ication G-	17124			ewer's Name persedes		1/15/200	Date of Re	view(s)	
OAR 69 welfare, to determ the press	90-310-1 safety a mine who umption	30 (1) and head either the criteria	The Depart th as descr e presumpt . This revi	ibed in ORS ion is establi ew is based ON: A	resume that 537.525. I ished. OAR upon avail	t a propos Department 690-310- lable infor	ed ground t staff revi- 140 allows mation and Burt and	ew ground wat the proposed and agency policed I Reba Swing		under OA I or condi I the time County:_	R 690-31 tioned to of evalu	10-140 meet nation.
Al.									Summer Lake	es		_ Basin,
A2. A3.												
Well	Log	id	Applican Well #		oposed	Propose		Location T/R-S QQ-Q)		n, metes a		
1	To be	built	1		Aquifer* See comments		Rate(cfs) (T/R 1.0 39S/19			2250' N, 1200' E fr NW cor S 90'S, 360'W fr NE cor S 1		
2												
3												
5												
* Alluvi	ım, CRB,	Bedrock	<u> </u>									
Well 1	Well Elev ft msl	First Wates ft bls	r SWL	SWL Date	Well Depth (ft) E350	Seal Interval (ft) 0-125	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft) 130-350	Well Yield (gpm)	Draw Down (ft)	Test Type
A4.	• • • • • • • • • • • • • • • • • • • •	ents: <u>T</u>	for proposed		ntry on the	e applicati	on simply	says below 13	30'. Nearby w	ell logs re	port sha	llow
SWL is	mine, be	eing co	mmensura	te with the	water leve	l elevation	<u>estimate</u>	on the origina	es of this re-reval well estimate	<b>?•</b>	e estimat	<u>ed</u>
A5.	Provis manage (Not all	ions of ment of basin r	the Goose f ground warders contain	and Summater hydrauli	er Lakes cally conne	ected to sur	Basin	rules relative t	to the developm are not, activ	ent, class ated by th	is applica	ation.
A6. 🗌	Name o	of admir	nistrative ar	ea:					fer limited by ar		rative res	striction.

Applic	ation	G- <u>17124</u>	continued	Date	2/18/2010						
В. <u>GF</u>	ROUN	D WATER AVAI	LABILITY CONSIDERATIONS	S, OAR 690-310-130, 40	0-010, 410-0070						
B1.	Bas	ed upon available da	ata, I have determined that ground wat	er* for the proposed use:							
	a.	period of the pro		is not over appropriated, $or \boxtimes$ cannot be determined to be over appropriated during any use. * This finding is limited to the ground water portion of the over-appropriation ibed in OAR 690-310-130;							
	b.		will likely be available in the amounts are ground water portion of the injur								
	c.	☐ will not or ☐	will likely to be available within the ca	pacity of the ground water	resource; or						
	d.	i. ⊠ The per ii. ☐ The per	y conditioned, avoid injury to existing rmit should contain condition #(s)7 rmit should be conditioned as indicated rmit should contain special condition(s	D, 7F I in item 2 below.							
B2.	a.	☐ Condition to al	low ground water production from no	deeper than	ft. below land surface;						
	b.	Condition to al	low ground water production from no	shallower than	ft. below land surface;						
	c.	Condition to all water reservoir l	low ground water production only from the petween approximately ft.	andft. below	ground land surface;						
	d.	occur with this u	ction is necessary to accomplish one of use and without reconstructing are cited permit until evidence of well reconstructions.	l below. Without reconstruc	ction, I recommend withholding						
			-as related to water availability- that is, not within the capacity of the resourc								
В3.	<u>sho</u> dat	w rather stable wate a. The ground wate	ity remarks: There is limited grouer levels. Data for closer wells that her report and well information lead ronse to the strength of precipitation.	ave measuring and report ne to conclude that any gr	ing conditions provide little nev						
	Gre	ound water flow is to	the southeast locally. Ultimately, d	ischarge is to Goose Lake	or tributaries.						
	It a	ppears that irrigation	on of the valley floor with surface wa	ter also aids considerably	to ground water recharge.						
	Wa	ter level tracking at	the well by permit condition is reason	onable. It's the most pract	tical way to get data at the site.						
	See	review of 1/9/2009 a	and associated materials for addition	al_information.							
	_										
	_										
	_										

Applic	ation G-		17124	contin	ued			Γ	Date	2/18/2010	
						ONSIDERA	<u>ATIONS,</u>	OAR 690-(	<u> </u>		
Cl. <b>6</b> 9	90-09-0	40 (1)	: Evaluatio	n of aqui	fer confinem	ent:					
	Well			Aquife	r or Proposed	l Aquifer		C	Confined	U	nconfined
	1	alluv	ium						Ĭ		
	Basis fo	r aqui	fer confine	ement ev	aluation:	<u>There is nomi</u>	nal confin	ement per n	earby well lo	g entries whi	ich show
											ide that lenses
											feet but none
						eflect a subdu					
			mais that a wing at lar			urrent set of	wells (~40	<u> leet total d</u>	eptn) may b	e strongly co	nnnea ana
						nd hydraulic o	connection	with surface	water source	es All wells lo	ocated a
- Z. U						face water so					
											yond one mile
			ated for PS						•		
		_									Potential for
		sw				GW	SW	Distance	Hydrau		Subst. Interfer.
	Well	#	Su	irface Wa	iter Name	Elev	Elev	(ft)	Conne		Assumed?
						ft msl	ft msl		YES NO	ASSUMED	YES NO
	1	1	Thomas	Creek T	rib to south	E4800	~4805	2600			
	1	2		vood Cre	ek	E4800	~4835	6000			
	1	3	North C			E4800	~4837	650			
	1	4			rib to north		~4808	1850			
	1	5	Thomas	Creek T	rib to south	E4800	~4785	5400			
	<b> </b>								<del></del>		
	<u> </u>										
	<del></del>								<del>                                     </del>	$ \vdash$	
										<u> </u>	
											able geologic
						n with the tri certain based					th. Connection
						above the gro					orth canal is
-	unnkery	Since	the Canar	is propar	ny pereneu a	above the gre	Junu wate	i ievei at tile	proposeu w	CII	
;	There is	anotl	ner unnam	ed tribut	ary to Thon	nas Creek to	the south	hat about o	ne mile from	the new pro	posed well
						t cited in the					
-		,						_			
			-			ted within:'					
						for each well					
											stream flows that outary. Compare
											s not distributed
						$1 \boxtimes box indicate$					
,		300 10								Potential to the	
		CII.	W7-11 ≥		Instream	Instream	Qw>	80%	Qw > 1%	Interference	Potential
	Well	SW	Well <	Qw>	Water	Water	1%	Natural	of 80%	@ 30 days	for Subst.
		#	¼ mile?	5 cfs?	Right ID	Right Q	ISWR?	Flow (cfs)	Natural Flow?	(%)	Interfer. Assumed?
ŀ	1	1				(cfs)		8.24-151	Flow?	0.27%	Assumed?
ŀ	1	1	· <u> </u>		none	none		0.24-151		U.4/70	+
ŀ			H				ㅡ片ㅡ				+
ŀ									Ħ		

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 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: _	NA			_					

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 SW#												
WCII SWII	Jan	Feb	Mar	Apr	May	Jun	Jul_	Aug	Sep	Oct	Nov	Dec
1 2	0.29%	0.39%	0.00%	0.00%	0.00%	0.00%	0.01%	0.02%	0.04%	0.08%	0.14%	0.21%
Well Q as CFS	0	0	1	1	1	1	1	1	1	1	0	0
Interference CFS	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002
Distributed Wel	ls .											
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NA	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
(A) = Total Interf.	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002
(B) = 80 % Nat. Q	16.7	38.7	76.6	151.0	111.0	41.7	13.1	8.24	8.98	10.40	14.50	19.1
(C) = 1 %  Nat.  Q	.167	.387	.766	1.51	1.11	.417	.131	.0824	.0898	.104	.145	.191
(D) = (A) > (C)			· ·	<b>√</b>	<b>*</b>		v′	<b>√</b>	- V	<b>√</b>	<b>√</b>	
$(E) = (A / B) \times 100$	.02%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%

(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.

neation G- <u>17124</u> continued	Date
Basis for impact evaluation: The basis is the possible hydra	
conditions between the new proposed well and Cottonwood confined environment, we know that the estimated impact w	
commed environment, we know that the estimated impact w	in be very sman
	·
·	
690-09-040 (5) (b) The potential to impair or detrimenta Rights Section.	lly affect the public interest is to be determined by the Wat
☐ If properly conditioned, the surface water source(s) can be a under this permit can be regulated if it is found to substantiall i. ☐ The permit should contain condition #(s)	adequately protected from interference, and/or ground water use by interfere with surface water:
ii. The permit should contain special condition(s) as	s indicated in "Remarks" below;
SW / GW Remarks and Conditions The ground water is shallout surface water heads near the site are close to that estimated for the big picture. The connection with the nearby tributary of for "the potential for substantial interference." Some addition	or the well. The connection with surface water is certain in Thomas Creek to the south is the important administrative nal on-the-ground information about that tributary may be
all the difference between permit issuance and non-issuance. Indicating perennial flow. That may be in conflict with actual information. The applicant may wish to provide knowledgeab watermaster on such information would be warranted.	observation but at this point it is the best available
The connection with Cottonwood Creek is weak at best. In an surface water impacts.	y event, it probably has no real impact on the evaluation for
The north canal is near the proposed well site. The canal appears to the canal appears to the proposed well use.	ears to be perched above the water level in the well. As suc
At the originally proposed well location, there was the potential tributary to the south 1500 feet. That was based on the well be	
being less than 1 mile from the tributary; and the requested flo	
availability basin (WAB) flows at the 80% exceedance level. The tributary. The analysis is the same. There was talk of the new tributary. That could have been beneficial for the applicant be misunderstanding occurred such that a different tributary to the same.	The new proposed well location is 2600 feet from the same proposed well location being just over a mile from the out that change didn't happen. I believe that some
The second by a second	
There may be a modest permitting path for the applicant to consider the potential for substantial interference goes away. The requeste flow. That is the situation at both the original and the new probe much less than the desired rate.	ed rate becomes less than 1% of the lowest monthly WAB
Sometimes a deep casing and sealing will be another way to ge sections 10, 11, 14, and 15, looking for strong confined condition connection with local surface water. I found no such condition for producing confinement. Those layers seem to be rather the flowing well would be perfect to show that the aquifer and creconditions occur at depth in this area but the wells aren't deep	ons that would lead to a conclusion of no hydraulic ns. The well reports include some clay layers that are good in and not extensive since there are no flowing wells. A sek are not hydraulically connected. Perhaps favorable
flowing well would be perfect to show that the aquifer and cre	sek are not hydraulically connected. Perhaps favorable o enough to tell. The applicant would need to explore for

App	lication G	17124	_continued		Date	2/18/2010	
D A	VELL CO	NCTDUCTION	, OAR 690-200				
υ. <u>ν</u>							
D1.	Well #:	NA	Logid:				_
D2.	THE V	VELL does not m	eet current well construct	ion standards based 1	upon:		
		review of the we	<b>O</b> ,		-		
	ъ. Ц	field inspection	by				_;
							:ـ
	u. 🗀	other. (specify)					_
D3.	THE	VELL construction	on deficiency:				
<i>D</i> 3.	a. $\Box$		lth threat under Division 20	0 rules:			
			er from more than one grou				
	с. 🔲	permits the loss	of artesian head;				
			ratering of one or more grou				
	e. 📙	other: (specify)					_
<b>D</b> .	COVER VI	UDV K		e 11			
D4.			on deficiency is described a				_
							_
							_
D5.	THE V	VELL a. [	was, or was not consoriginal construction or r			fect at the time of	
		b. [	I don't know if it met sta	indards at the time of c	construction.		
D6.			ent Section. I recommend vent and approved by the Enf			evidence of well reconstruction or Section.	
TH	IS SECTION	ON TO BE CO	MPLETED BY ENFOR	CEMENT PERSO	NNEL		_
D7	□ Well c	onetruction deficie	ncy has been corrected by the	he following actions:			
<i>D1</i> .	☐ Well co	mstruction deficie	mey has been corrected by the	ne tonowing actions			_
							_
							_
		_					_
							_
			·				
						. 200	
		(Enforcement Se	ection Signature)	_			
D8.	□ Poute	to Water Bights	Section (attach well recon	struction logs to this	nage)		
טט.	Koute	w water Aights	Section (attach wen recon	struction logs to this	Page).		

