# Water Right Conditions . Tracking Slip

Groundwater/Hydrology Section

ROUTED TO: W.R

TOWNSHIP/ RANGE-SECTION: 5//

CONDITIONS ATTACHED?: Ves [] no

REMARKS OR FURTHER INSTRUCTIONS:

## WATER RESOURCES DEPARTMENT

MEM	Ю							M	ay 8	,	2012 2 <del>00</del>
TO: FROI SUBJ	M: ECT:	GW:	M <sub>(R</sub>	<u>cuel</u> eviewer's N	,	nce Eva	luation				
	_YES _NO	The so	ource of	approp	riation i	s within	or abov	ve a Sce	nic Wat	terway	
	_YES	Use th	e Sceni	c Water	way cor	ndition (	Conditi	on 7J)			
	interfe	rence w	ith surf	ace wat		Section ontribut below.		,	_		ater
<u>/</u>	interfe the De that th	rence w partme le prop	ith surfa ent is ur osed us	ace wate nable to e will m	er that c find th leasura	Section ontribut at therebly red ing cha	es to a se is a proceed the	scenic w eponde surface	vaterway erance ( water	y; there of evide flows	fore,
Calcula calculat informin Exerci Waterv	ted, per cong Water se of thi	rcentage oriteria in Rights th is permi	of consum 390.835, at the De t is calc owing an	nptive use do not fil partment ulated t nounts	by month lin the to is unable o reduce	h and fill able but contake to make month ed as a p	heck the a Prepon ly flows	"unable" derance o	option at of Eviden	bove, thu ce finding	s g. Scenic
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

## PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Wate	er Rights S	ection				Date	<u> M</u> :	ıy 9, 2	012			
FROM	:	Grou	ındwater S	ection	Marc No	rton								
CLUD ID						Revi	ewer's Nam							
SUBJE	CT:	App	lication G-	17 <u>518</u>		Suj	persedes	rev	view of			Date of Re	view(c)	
												Date of Re	view(s)	
oar 69 welfare, to determ the pres	90-310-1 safety a mine who umption	30 (1) nd hea ether the	The Depart elth as descr ne presumpt a. This revi	ibed in ORS ion is establi ew is based	resume that 537.525. D shed. OAR upon availa	a proposi epartment 690-310- able infor	ed groun t staff rev 140 allow mation a	iew vs th and	ater use will a groundwater ne proposed u agency poli	r applica use be me cies in p	tions un odified ace at	nder OAI or condi- the time	R 690-310 tioned to of evalu	0-140 meet ation.
A. GE	NERAL	INF	ORMATIC	<u>ON</u> : A <sub>1</sub>	oplicant's N	ame:	<u>William</u>	Pel	lletier		(	County:	<u>Umatilla</u>	<u> </u>
A1.	A1. Applicant(s) seek(s) <u>0.218</u> cfs from <u>2</u> well(s) in the <u>Umatilla River</u> Basin Subbasin Quad Map: Stanfield											_ Basin,		
						suoo	asin	Qua	ad Map. <u>St</u>	annew_				
A2. A3.									March 1 th				id):	
Well	Logic	1	Applicant	's Propos	ed Aquifer*	Prop	osed		Location			ion, mete		
			Well #			Rate	$\overline{}$		(T/R-S QQ-			N, 1200'		
2	UMAT 5		1		luvium Iuvium	0.2			5N/29E-31 NE 5N/29E-31 NE			'S, 1850' ]		
3														
5														
	ım, CRB,	Bedroo							'					
	, e.a.,													
	Well	Firs	SWI.	SWL	Well	Seal	Casing		Liner	Perfora		Well	Draw	Test
Well	Elev ft msl	Wate ft bl	r ft ble	Date	Depth (ft)	Interval (ft)	Interva (ft)	ls	Intervals (ft)	Or Scr (ft		Yield (gpm)	Down (ft)	Type
1	450	52	14	07/26/1984	60	0-20	+1 - 58	3		(11		200		Air
1			13.48	04/17/2012										
2	46 <u>0</u>		18.83	04/17/2012	64		+3 - 55	5		55 -	?			
				,										
Use data	from app	lication	for proposed	i wells.										
A4.	Mayna well de- on the	rd, Ea velope maps.	st Region, and water from The prope	a Well Inforom the alluver	mation Rej ium, the sa NE/4 of the	oort was : me aquife e NW/4.	generate er as We Both we	d. ]    #1   s a	Il inspection Based on the I. Also, then re visible on mbers were	e inspect e are a o the 200	ion, it conside 9 air p	was dete erable nu photo. T	rmined imber of he metes	errors
	Reques	ted di	scharge rat	e is 98 gpm	= <u>0.21</u> 8 cfs.									
A5. 🗌	Requested discharge rate is 98 gpm = 0.218 cfs.  Provisions of the Umatilla River  Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water □ are, or ☑ are not, activated by this application. (Not all basin rules contain such provisions.)  Comments:													
A6. 🗆	Well(s) Name o	# of admi	nistrative ar	ea: <u>NA</u>	,,	,	,	tap	p(s) an aquifo	er limited	l by an	administ	rative res	triction.

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#### B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 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 ⊠ cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the groundwater 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 groundwater portion of the injury determination as prescribed in OAR 690-310-130;
c.	$\square$ will not or $\boxtimes$ will likely to be available within the capacity of the groundwater resource; or
d.	will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:  i. ☑ The permit should contain condition #(s) 7P – Well Tag ;  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 groundwater production from no deeper than ft. below land surface;
b.	Condition to allow groundwater production from no shallower than ft. below land surface;
c.	☐ Condition to allow groundwater production only from the groundwater reservoir overlying the Columbia River Basalts;
d.	Condition to allow production only from a single aquifer in the Columbia River Basalt groundwater reservoir;
e.	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 Groundwater Section.
	<b>Describe injury</b> —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):
	oundwater availability remarks: <u>The wells, UMAT 3764 and UMAT 57016, develop water from the shallow</u> Ivial material overlying the basalts. Available data from nearby alluvial wells indicates a relatively stable resource.
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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	Sand and Gravel		$\boxtimes$						
2	Sand and Gravel		$\boxtimes$						
Basis fo	Basis for aquifer confinement evaluation: Groundwater levels indicate an unconfined aquifer.								

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	Potential for Subst. Interfer. Assumed? YES NO	
_								

Basis for aquifer hydraulic connection evaluation: <u>There are no perennial streams within a one-mile radius of the well.</u> There is a canal, but it is not considered as part of this determination. This portion of the form is not applicable.
Water Availability Basin the well(s) are located within:

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?

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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?
		_ <u> </u>					<u> </u>		<u> </u>
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.

	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
Interfer	ence CFS												
	outed Well		T.1	<b>N</b> 6	A		T	T1	A	C	0.4	Mari	Das
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
	Q as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	
	Q as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well	Q as CFS												
	ence CFS												
_		%	%	%	%	%	%	%	%	%	%	%	%
Well (	Q as CFS	,,	7.0	7.0	7.0	,,							
	ence CFS												
michie		%	%	%	%	%	%	%	%	%	%	%	%
Wall	Q as CFS	70	70	70	/•	/•	70	70	70	,,	,,	- 14	
	rence CFS												
meric	che Cr 3												
(A) = T	otal Interf.												
(B) = 80	% Nat. Q												
	% Nat. Q												
(D)	(4) > (6)	· /	√ <sup>′</sup>	<b>√</b>	<u>.</u> √	√	V	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
	(A) > (C)				%	%	%	%	%	%	<b>%</b>	%	%
(E) = (A	/ B) x 100	%	%	%	<b>%</b>	<b>%</b> 0	70	6FC (C		7/0	70	70	70

(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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I	Basis for impact evaluation:
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	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Winghts Section.
	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater under this permit can be regulated if it is found to substantially interfere with surface water:  i.   The permit should contain condition #(s)
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;
011	
<b>SW</b>	V / GW Remarks and Conditions
_	
Re	ferences Used:
	onthier, J.B., 1990, Geology, structure, and thickness of hydrostratigraphic units in part of the Columbia Plateau Oregon: U ological Survey Water-Resources Investigations Report 86-4001, 6 sheets.
	genson, G., 1964, Geology and ground water of the Umatilla River Basin, Oregon: U.S. Geological survey Water-Supply I 20, 162 p.
	·
no.	wcomb, R.C., 1961, Storage of ground water behind subsurface dams in the Columbia River basalt: Northwest Science, v.

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D1.	Well #:	Logid:	
D2.	<ul> <li>a.  review of the we</li> <li>b.  field inspection</li> <li>c.  report of CWRE</li> </ul>	eet current well construction standards based upon:    log;	
D3.	<ul> <li>b.</li></ul>	Ith threat under Division 200 rules; er from more than one groundwater reservoir;	
D4.		on deficiency is described as follows:	
D5.		<ul> <li>was, or  was not constructed according to the standards in effect at the time original construction or most recent modification.</li> <li>1 don't know if it met standards at the time of construction.</li> </ul>	ne of
D6.		ent Section. I recommend withholding issuance of the permit until evidence of the permit and approved by the Enforcement Section and the Groundwater Section.	well reconstruction
THIS	S SECTION TO BE CO	MPLETED BY ENFORCEMENT PERSONNEL	
D7.	Well construction deficie	ncy has been corrected by the following actions:	
			, 200
	(Enforcement Se	ction Signature)	_

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