PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	ΓO: Water Rights Section						DateFebruary 16, 2017						
FROM	FROM: Ground Water/Hydrology Section												
SUBJECT: Application G- 183			18347			ewer's Name persedes re	Septemb	September 6, 2016 Date of Review(s)					
OAR 69 welfare, to deter	safety amine who umption NERAL Applica	30 (1) 7 and heal ether the criteria INFO	th as describe e presumption. This review DRMATION bek(s) 2.0	ent shall ped in ORS n is estable is based A: Cfs fro	resume than 537.525. E ished. OAR upon avail pplicant's M	t a proposo Department & 690-310- lable infor Name: well	ed groundware staff review 140 allows to rmation and Root Orch	y ground wate the proposed I agency poli nards	ensure the presser applications use be modified cies in place at	under OA d or condi t the time	R 690-31 tioned to of evalu	10-140 meet	
		<u>Mosier</u>	Creek			subb	asin Qu	ad Map: Ly	yle				
A2. A3.	Propose Well an	ed use: { d aquif	Suppl. Irriga er data (attac	tion: 170 h and nu	<u>.5 ac</u> mber logs			arch 1 to Oc rk proposed	tober 31 wells as such	under log	gid):		
Well	Logid Applicant's		Proposed		1 1		Location /R-S QQ-Q)		Location, metes and bounds, e.g.				
1			Well # 1	Aquifer* Grande Ronde		2.0		2E-7 NW-N		2250' N, 1200' E fr NW cor S 36 1380' S, 1575' W fr NE cor S 7			
2													
3 4									_				
5		r							-	î			
* Alluvii	ım, CRB,	Bedroc	k		٧.								
Well	Well Elev ft msl	First Water ft bls	r SWL	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type	
1	680				Prop 1,600	Prop 0-1260	Prop +1-1260						
Use data	from app	lication	for proposed w	vells.		L				,			
A4. permitt	Commo	ents: <u>P</u> in 1988 s in the	OA will targ	et a Gran undwater ek basin.	level decli The Gran	nes are oc de Ronde	curring in t aquifers ar	the Pomona, e not known	Rapids aquifer Priest Rapids to be connecte	, and Fre	<u>nchman</u>		
A5. □	(Not all	ment o	the f ground waterules contain	such prov	ically connoisions.)	ected to su	rface water	are, or	o the developm are not, activ	ent, class vated by the	ification a	and/or cation.	
A6. 🗌	Name o	f admir	nistrative area	ı:				p(s) an aquifo	er limited by an	administ	rative res	triction.	

B. <u>G</u> I	ROUI	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 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)
B2.	a.	Condition to allow ground water production from no deeper thanft. 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 water reservoir between approximately 1300 ft. and 1700 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.	rep	ound water availability remarks:The applicant proposes to use groundwater from a Grande Ronde aquifer as a lacement for using their Water Rights in the Pomona and Priest Rapids aquifers. There are no other Grande ade aquifer users in this vicinity. The Grande Ronde aquifer may not yield the amount requested.
	Spe	cial Condition: In the event that a sufficient amount of water is found in the base of the lowermost Ginkgo flow of
	agu	Frenchman Springs Basalt, that source may be used in-lieu of a Grande Ronde aquifer if the lowermost Ginkgo ifer is determined by a Department Hydrogeologist to be separate from the upper Frenchman Springs aquifers not hydraulically connected to Mosier Creek.
	and	not hydraulically connected to Mosier Creek.
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Date: September 6, 2016

Application G-18347_

____ continued

Date: September 6, 2016

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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: _								

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	Wells											
SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	%	%	%	%	%	%	%	%	%	%	%	%
s CFS												
ice CFS									-			
										<u> </u>		
										•		•
SW#										Oct		Dec
	%	%	%	%	%	%	%	%	%	%	%	%
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ice CFS												
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> (C)	√	V	√	√	1	V	√ _	. 1	V	1	√	√
B) x 100	- %	%	%	%	%	%	%	%	%	. %	%	%
	SW# S CFS ACE	% CFS ace CFS	### Jan Feb % % % % % % % % %	### Jan Feb Mar	Section Sect	Second Color Seco	SW# Jan Feb Mar Apr May Jun	Stributed Wells SW# Jan Feb Mar Apr May Jun Jul SCFS SCEC SW# Jan Feb Mar Apr May Jun Jul SW# Jan Feb Mar Apr May Jun Jul Jul SCFS SCEC SW# Jan Feb Mar Apr May Jun Jul SCFS SCEC SW# SW#	Second S	Sep	Sep Oct Oct	Sep

(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.

plication G- <u>18347</u> continued	Date: September 6, 2016
Basis for impact evaluation: Grande Ronde Basalt aquifers	s are not hydraulically connected to Dry Creek.
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. 690-09-040 (5) (b) The potential to impair or detrimental Rights Section.	lly affect the public interest is to be determined by the Wa
☐ 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)	y interfere with surface water:
ii. The permit should contain special condition(s) as	indicated in "Remarks" below:
	,
-	
References Used: <u>Application file G-18347;OWRD observat</u>	ion well data; OWRD Groundwater Report #33 (1988):
Mosier Withdrawal Orders; USGS SIR 2012-5002; SB 839: M	

D1.	Well #: Logid: Proposed We	ell
D2.	THE WELL does not meet current well construction standard a. review of the well log; b. field inspection by 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 reserved. permits the loss of artesian head; d. permits the de-watering of one or more ground water reserved. other: (specify)	rvoirs;
D4.	THE WELL construction deficiency is described as follows:	
D5. D6. [THE WELL a. was, or was not constructed accord original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original constructed accord original constructed accord original constructed accord original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most recent medical by a second original construction or most rec	odification.
	is filed with the Department and approved by the Enforcement Sec	
THIS	SECTION TO BE COMPLETED BY ENFORCEMENT F	ERSONNEL
D7. [Well construction deficiency has been corrected by the following a	ctions:
		, 200
	(Enforcement Section Signature)	

Date: September 6, 2016

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G-18347: Lyle Quadrangle



