PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	Water Rights Section								Date	e	October	30, 200	9	
FROM	[:	Ground Water/Hydrology Section												
SUBJE	UBJECT: Application G- 17260							ver's Name ersedes re	view of			Date of Re	view(s)	
OAR 6 welfare to deter	90-310-1 , safety ar mine who	30 (1) <i>T nd healt</i> ether the	The Depart th as descr e presumpt	ibed in ORS	oresume the 537.525. Iished. OA	<i>at a pr</i> Depart R 690-	oposed ment s 310-1	d groundw staff reviev 40 allows	ater use will w ground wat the proposed d agency pol	ter app	olications e modifie	under OA d or cond	AR 690-3 itioned to	10-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>ON</u> : A	applicant's	Name:	<u>A</u>	lan Clea	ver		(County:	Morro	W
A1.	Applica	ant(s) see	ek(s) <u>7.7</u>	cfs fro	m <u>3</u>		well(s)		Umatilla ad Map: C					_ Basin,
A2. A3.						<u>s</u>	Seaso	nality:	March 1 –	- Octo		under lo	gid):	
Wel l	Logi	id	Applican s Well #	Λ.	Proposed Aquifer*		Proposed Rate(cfs)		Location 7/R-S QQ-Q)		Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36			
1	MORR		11		Alluvium				26E-35 NW NW			5, 110' E fi		
3	MORR MORR		12 F		luvium luvium		2.9 6.7		N/26E-34 SE NE N/26E-34 SE NW		1540' S, 1210' W fr NE S 34 150' N, 2070' E fr W ¹ / ₄ cor S 34			
4														
5 * Δ1luvi	um, CRB,	Redrock	-											
7111411				1	1	ı	ı			T		_		1
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Sea Inter (ft	val	Casing Intervals (ft)	Liner Intervals (ft)		Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
11	314	43	43	9/25/71	87	0 – 4	_	0-87		67 -	. ,	1557	23	PT
12	318	44	44	10/8/71	81	0 – 4		0 – 81		71 –		1865	26	PT
F	320	32	32	8/20/71	52	0 - 3	2	0 – 52		42 –	52	628	22	PT
A4.	Comme	ents: <u>Tł</u>	or proposed ne wells for d not hav	r this appli	cation are for well F	locate	ed less Grou	than 2 mi nd Water	iles north of Section cor	the O	rdnance d MORR	Critical (Ground Well F.	<u>Water</u>
Reques	sted discl	narge ra	ate is 5600	gpm = 12.	5 cfs, but l	imited	to 7.7	7 cfs.						
A5. 🖂	manage (Not all	ment of basin rents:	ules contai	ater hydraul in such prov develop wa	isions.) ater from	nected an unc	to surf	face water	ıles relative t ☐ are, or [] I aquifer, bu	⊠ are ıt are y	not, activ	ated by t	his applic	cation.
A6. 🗌	Name o	f admin	istrative a						p(s) an aquif				rative res	triction.

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B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

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;
☐ will not <i>or</i> ☐ 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;
\square will not or \square will likely to be available within the capacity of the ground water resource; or
 will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource: The permit should contain condition #(s) 7B - Interference, 7N - Annual WL, 7P - Well tag + large monitoring and reporting with a flow meter at each well The permit should be conditioned as indicated in item 2 below. The permit should contain special condition(s) as indicated in item 3 below;
Condition to allow ground water production from no deeper than ft. below land surface;
Condition to allow ground water production from no shallower than ft. below land surface;
Condition to allow ground water production only from the ground water reservoir between approximately ft. and ft. below land surface;
☐ 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):
ound water availability remarks: <u>There is limited ground water level data for alluvial wells in this area. The</u> lls develop water from coarse-grained, flood deposits that are hydraulically connected to the Columbia River. The uifer should be stable over the long-term, but water level data should be collected and reported to monitor the ound water system.
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C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. **690-09-040** (1): Evaluation of aquifer confinement:

Wel 1	Aquifer or Proposed Aquifer	Confined	Unconfined
11	Sands and gravels		
12	Sands and gravels		\boxtimes
F	Sands and gravels		\boxtimes

Basis for aquifer confinement evaluation: <u>Based on a review of well logs in the area and hydrogeologic reports, the wells develop water from an unconfined aquifer; water level did not rise above where it was encountered in the well.</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 ½ 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
11	1	Columbia River	271	240	10300		
12	1	Columbia River	274	240	11700		
F	1	Columbia River	288	240	13400		

basis for aquiter fryuraunc confiection evaluation: <u>wells develop water from an uncomfined, and vial aquiter that is</u>
connected to the Columbia River. Based on work by Wozniak (1995), ground water flow is toward the northwest.

Pagic for aguifor hydroulic connection evaluation. Wells develon water from an unconfined alluvial aguifor that is

Water Availability Basin the well(s) are located within: Columbia River

C3a. **690-09-040** (4): Evaluation of stream impacts for <u>each well</u> 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 \boxtimes 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?

Comments:	I could not locate in-stream water right values or 80 % natural flow values, but based on the flow in the							
Columbia River, the 1% values would be considerably higher than the requested discharge rate.								

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.

Non-D	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
Distrib	outed Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
(A) T-	otal Interf.												
, ,													
	% Nat. Q												
(C) = 1	% Nat. Q												
$(\mathbf{D}) = (A$	A) > (C)	/	√	_	√	\checkmark	√	\checkmark	√	\checkmark	\checkmark	\checkmark	\checkmark
$(\mathbf{E}) = (\mathbf{A}$	/B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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CFS; (D) = highlight the check	kmark for each month where (A) is gi	at 80% exceed. as CFS; $(C) = 1\%$ of calculated reater than (C) ; $(E) = \text{total interference divided by}$	natural flow at 80% exceed. as by 80% flow as percentage.
C4b. 690-09-040 (5) (b) Rights Section.	The potential to impair or det	rimentally affect the public interest is to b	oe determined by the Wate
under this permit ca	in be regulated if it is found to su	can be adequately protected from interference betantially interfere with surface water:	nce, and/or ground water use
C6. SW / GW Remarks an	d Conditions		
References Used:			
1995 Report on Hydro Management Area, V		nistry and Land Uses in the Lower Uma	atilla Basin Groundwater

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D W	ELL CONSTRUCTION	J OAR 690-200		
D. <u>w</u>	ELL CONSTRUCTION	1, OAK 090-200		
D1.	Well #:	Logid:		
		_		
D2.		neet current well construction star	ndards based upon:	
	a. review of the w			
		by		
	u omer. (speeny)	_		
D3.	THE WELL constructi			
	—	alth threat under Division 200 rules	,	
		ter from more than one ground water	er reservoir;	
		of artesian head; vatering of one or more ground wat	er reservoirs	
	<u> </u>			
D4.	THE WELL constructi	on deficiency is described as follo	ws:	
D5.	THE WELL a. L		according to the standards in effect a	at the time of
		original construction or most rec	cent modification.	
	b. Г	I don't know if it met standards	at the time of construction.	
	<u>-</u>			
D6.			ding issuance of the permit until evid	
	is filed with the Departm	ent and approved by the Enforcement	ent Section and the Ground Water Se	ction.
THIS	S SECTION TO RE CO	MPLETED BY ENFORCEME	INT PERSONNEI	
11110	SECTION TO BE CO.	WILETED BY ENTORCEME	ENTTERSONNEL	
D7.	Well construction deficie	ency has been corrected by the follo	wing actions:	
		_		
				200
	(Enforcement S	ection Signature)		, 200
	(Zinoreement D	Jenon Signature)		
D8.	☐ Route to Water Rights	Section (attach well reconstruction	on logs to this page).	

