# WATER RESOURCES DEPARTMENT

·MEI	OM							A	gnit	20	, 20 <b>∮</b>
TO:	M:		lication				•				
SUB	JECT:					ence Ev	'aluatio	n			
	YES								•		
L	NO	The s	source o	f approp	priation	is withi	n or abo	ove a Sc	enic W	aterway	•
	_YES								*		
L	NO	Use t	he Scen	ic Wate	rway co	ndition	(Condi	tion 7J)			
					· · ·			:			; ;
	interfe	erence v		face wa	ter that	r Sectio contribu below.					
	interfe the D that t	erence v epartm he prop	vith surf ent is u osed us	face wat nable to se will n	ter that of find the	r Section contribution hat then ably rec ving cha	ites to a re is a p luce the	scenic v repond surfac	waterwa erance e water	y; ther of evid flows	efore, ence
Calcula calcula	ite the pe ted, per c	rcentage riteria in	390.835,	nptive us do not fi	e by moni ll in the t	th and fill able but c e to make	heck the	"unable"	option a	bove, thu	s
Water	way by	the follo		mounts		e month ed as a	-		e consu		Scenic use by
an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

#### PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Wate	er Rights S	ection				Date	e <u>Au</u>	gust 2	<u>0, 2014</u>		
FROM	[:	Grou	ındwater S	ection			Zwart						
SUBJE	ECT:	App	lication G-	17877			ewer's Nam persedes	review of		I	Date of Re	view(s)	
oar 69 welfare, to deter the pres	90-310-1 , safety as mine who sumption	30 (1) nd hea ether th criteria	The Depart lth as descr ne presumpt	ibed in ORS ion is establi ew is based	resume that 537.525. Dished. OAR upon avail	t a proposo Department 1 690-310- able infor	ed ground staff revi 140 allow mation a	dwater use will item ground waters the proposed and agency police.  Marilyn Ma	er applica use be me icies in pl	ations u odified lace at	nder OA or condi the time	R 690-3 tioned to of evalu	10-140 meet aation.
Al.	Applica	nt(s) s	eek(s) <u>1.0</u>	cfs from	n <u>one</u>	well(	(s) in the _	Malheur					_ Basin,
		Willo	w Creek			subb	asin (	Quad Map: <u> </u>	rogan				
A2. A3.								March 1 t			nder log	gid):	
Well	Logic	i	Applicant Well #	's Propos	ed Aquifer*	Prop Rate		Location (T/R-S QQ				s and bou E fr NW	
1 2	MALH	106	1	Terti	ary Seds.	1.		15S/42E-23 S		1275'	S, 1452'	W fr SE	cor S 14
3						·							
4													
5 * Alluvit	um, CRB,	Bedroo	:k			.1							
Well	Well Elev ft msl	First Wate ft bls	SWL f bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)		Perforation Or Screen (ft)	eens	Well Yield (gpm)	Draw Down (ft)	Test Type
1	2695	220	70	11/04/1985	605	0-30	0-36	None	Non	e	1000	180	Pump
Use data	from appl	ication	for proposed	l wells.									<u>.                                    </u>
A4.	Comme	ents: _	<del></del>										
											<del>*************************************</del>		
A5. 🖾	manage (Not all	ment o	of ground wrules contain	ater hydrauli n such provi	cally conne sions.)	ected to sur	rface wate	rules relative ter are, or	are not	elopme t, activa	nt, classi	fication nis applic	and/or cation.
A6. 🗌	Name o	f admi	nistrative a	rea:				tap(s) an aquife					striction.

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

Base	d 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 period of the proposed use. * This finding is limited to the ground water portion determination as prescribed in OAR 690-310-130;	
b.	will not or will likely be available in the amounts requested without injury to is limited to the ground water portion of the injury determination as prescribed in	
c.	will not or will likely to be available within the capacity of the ground water	er resource; or
d.	will, if properly conditioned, avoid injury to existing ground water rights or to 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 be	100000000000000000000000000000000000000
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
•	Condition to allow ground water production only from the water reservoir between approximately ft. and ft. below	w land surface;
	senior water rights, not within the capacity of the resource, etc):	Part of the state
	The state of the s	
	und water availability remarks: The nearby observation wells (MALH 220 and	
Fer	vial aquifer, so they are not especially useful to evaluate groundwater availability y Formation) penetrated here. It appears that there is limited but increasing lo	
<u>aqu</u>	fer for irrigation.	
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#### C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1.	690-09-040	(1):	Evaluation	of a	aquifer	confinement	
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Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Glenns Ferry Fm. or equiv. (Tig in GW Rpt. 34)		

Basis for aquifer confinement evaluation:	The water-bearing zones in the Glenns Ferry Formation are relatively deep
relative to the static water level.	

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
1	1	Willow Creek	2625	2635	2650		

Basis for aquifer hydraulic connection evaluation: <u>The aquifer developed likely discharges to the overlying or adjacent alluvial deposits and therefore is in indirect and inefficient hydraulic connection with the creek. The nearby reach of the creek is not a gaining reach, based on the head relationship and conversation with the local Watermaster.</u>

Water Availability Basin the well(s) are located within: Willow Cr > Malheur R ab Gum Cr (31011910).

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 < <sup>1</sup> / <sub>4</sub> 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?
			,					<del>                                     </del>

Comments:	This sectio	n does not	apply.				
					,		
					 		All a

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						_			_	_		_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	9
Well Q	as CFS												
Interfer	ence CFS						S. A198/80 811	38.833			GS-1898 II S 121 ISC	30000E21112	
Distrib	uted Well	S			369 W 860 CO	Island and send and	557779 S. FAN		7000 PANG - 128 C	and different in a sec		una Maralla (1960)	200
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	9
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	4
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	,
Well Q	as CFS												
Interfer	ence CFS												
		%	. %	%	%	%	%	%	%	%	%	%	9
Well Q	as CFS		*****										
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	-
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	9
Well Q	as CFS	-											
Interfer	ence CFS												
												(V)P-1/AGESV	A Tray York
	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q	100000000000000000000000000000000000000							AC	-			23.520.0.4.4F-3.0
(D) = (	(A) > (C)	<b>✓</b>	1	<b>/</b>	<b>√</b>	✓	1	<b>✓</b>	1	<b>/</b>	<b>/</b>	1	1
$(\mathbf{E}) = (\mathbf{A}$	/B) x 100	%	%	%	%	%	%	%	%	%	%	%	9/

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(A) = total interference as CFS; (B) = WAB calculated natural flow CFS; (D) = highlight the checkmark for each month where (A) is Basis for impact evaluation:	greater than (C); (E) = total interference divided by	y 80% flow as percentage.
C4b. 690-09-040 (5) (b) The potential to impair or de Rights Section.	trimentally affect the public interest is to be	e determined by the Wate
25.   If properly conditioned, the surface water source(sunder this permit can be regulated if it is found to so i.   The permit should contain condition #(ii.   The permit should contain special condition #(iii.   The permit should contain special condition #(iiii.   The permit should contain special condition #(iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	ubstantially interfere with surface water:	ce, and/or ground water use
C6. SW / GW Remarks and Conditions		
References Used: Ground Water Report #34 by Man	rshall Gannett; local well logs; local reviews	

## D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	Logid:	
D2.	a. review	oes not appear to meet current well construction standards based upon: of the well log; nspection by of CWRE (specify)	;
D3.		onstruction deficiency or other comment is described as follows:	
D4. [	Route to the W	Well Construction and Compliance Section for a review of existing well construction.	
Water	r Availability Tab	oles	

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