WATER RESOURCES DEPARTMENT

MEM	Ю							Ap	r;/	<u>//</u>	20 / 3
TO: FROI SUBJ	M: ECT:	GW:	M _Q	eviewer's N	19: Name) terfere	to	luation				
	_YES	The so	ource of	approp	riation i	s within	or abov	ve a Sce	nic Wat	terway	
	_YES _NO	Use th	e Scenie	c Water	way cor	ndition (Conditi	on 7J)			
/	Per OF interfe	rence wated into a second control water wa	rith surfarferences 835, the rith surfacent is unosed us	ace water is districted ace water to be will me	er that c ributed d Water er that c o find the neasura	ontribut below. Section ontribut at ther bly red	is unal tes to a s e is a pr uce the	Scenic V ble to ca scenic w reponde surface	ulate growante waterwayerance (e water nic water	ground y; there of evide flows	water fore,
Calcula calculat informin Exerci Waterv	te the per ted, per c ng Water se of thi way by	riteria in Rights th is permi	of consum 390.835, at the De t is calc owing an	iptive use do not fil partment ulated t nounts	e by montall in the to is unable o reduce	able but c to make e month	heck the a Prepon ly flows	"unable" derance s in	If interfe option a of Eviden e consu	bove, thus ce finding	s g. Scenic
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov_	Dec

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Water	· Rights Se	ection					Date	Ap	ril <u>10,</u>	2013		
FROM:	:	Grour	ndwater Se	ection	Marc No									
SUBJE	CT:	Appli	cation LL	1453			ewer's Name persedes		iew of			Date of Rev	view(s)	
OAR 69 welfare, to determ	90-310-1 safety ar mine whe	30 (1) 7 nd heali ether the	The Departi th as descri presumpti	<i>bed in ORS</i> on is establi	resume that 537.525. Do shed. OAR	<i>a propos</i> epartment 690-310-	ed ground staff revi 140 allow	iew g s the	er use will e groundwater e proposed u ngency polic	applicates a see be	ions u dified	nder OAF or condi	8 690-310 tioned to	0-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIC	<u>N</u> : A	oplicant's N	ame:	Capri W	alla	Walla		(County:	<u>Umatill</u> 2	1
Al.	Applica	nt(s) se	ek(s) <u>0.31</u>	cfs from	n <u>1</u>	well((s) in the _		<u>Umatilla</u>					_Basin,
		Walla V	Valla			subb	asin (Quac	d Map: <u> </u>	wlus Hi	II			
A2. A3.									4/1/2013 th k proposed				id):	
Well	Logic	j	Applicant' Well #	s Propos	ed Aquifer*	Prop Rate	osed		Location (T/R-S QQ-		Locat	ion, mete ' N, 1200'	s and bour	nds, e.g.
1	UMAT 5	7059	1	(CRBG	0.3		0:	5N/36E-23 NI			S, 435' W		
3														_
5		-	_											_
* Alluviu	ım, CRB,	Bedrock												
Well	Well Elev ft msl	First Water ft bls	It bis	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Interval (ft)	s	Liner Intervals (ft)	Perfora Or Ser (ft)	eens	Well Yield (gpm)	Draw Down (ft)	Test Type
1	1615	278	175	7/15/80	295	0 - 30	+1 - 30	<u>'</u>				400		Air
					_						_			
Use data	from app	lication	for proposed	wells.						24				
A4.	Comme	ents: <u>T</u>	here are tv	vo wells on	the proper	ty. UMA	T 4042 is	loca	ated about	70 % feet w	est of	the prop	osed PO	A.
	Reques	ted disc	charge rate	e is 140 gpn	1 = 0.31 efs									
A5. 🗌	manage (Not all Comme	ment of basin r ents: Th	ules contain ne well is w	er hydraulic such provi	cally connect sions.) we mile bou	ted to sur	face water	r 🗌	es relative to] are, or Milton-Fre	are not,	activa	ted by th	is applica	and/or tion.
		_				_	_							
A6. 🗌	Name o	of admir	istrative ar	ea:					(s) an aquif			_		striction.
		_												

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

BI.	Bas	ed upon available data, I have determined that groundwater* 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 \square 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) 7B - Interference, 7N - Annual WL (February/March), 7P - Well Tag, 7T - Measuring Tube, Large measuring and reporting with flow meter on each well 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;
B2.	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 a single aquifer in the Columbia River Basalt groundwater reservoir between approximately 270 ft. and 300 ft. below land surface;
	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.
		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.	Fre gro the	oundwater availability remarks: The well is located within the five-mile boundary around the City of Milton-ewater wells. Based on the information on the Water Well Report and the location of the well, a barrier to undwater separates the proposed well from the City's wells and a limited license could be issued. If, in the future, well is deepened, that determination might change. Therefore, condition B2 (c) limits the well to the aquifer that is rently developed.
	The	ere is concern about the well construction. The well log, UMAT 57059, indicates that there is "broken rock" from
		to 210 feet below land surface. The well constructor, Goral LaPorte, indicated that this was a fractured area but re was no water. Goral LaPorte also indicated that a nearby well, UMAT 4042, encountered the same
	hyd	Irogeological conditions. UMAT 4042 indicates a black cinder and lava rock – very porous with a small amount of
		ter (3 – 5 gpm). The static water level reported on UMAT 4042 was 145' on 12/29/1980. The static water level in IAT 57059 was 175' on 7/15/1980. The two wells are located about 90 feet apart and at similar elevations, not
	eno	ough to account for the 30 foot difference in water levels. Additional information needs to be collected to determine
		here is borehole flow prior to issuing a permit. See attached cross section. Allow irrigation through November 31, 3, then have the pump(s) pulled and do a video and temperature log for each well.
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C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

CI. 69	0-09-040	(1):	Evaluation	of aquifer	confinement:
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Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	CRBG	\boxtimes	
Rasis fo	r squifer confinement evaluation. Groundwater levels ro	ose above where water was en	counter

Basis for aquifer confinement evaluation:	Groundwater levels rose above where water was encounter.

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>Groundwater was encountered at an elevation of 1337', over 140'</u> below the elevation of the valley floor. Even allowing for sediments in the valley floor of 30 – 40', the aquifer is well
below the river and not hydraulically connected within a one mile reach.
iction the first and not hydraumeany connected within a one mine reach.
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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<u> </u>			 -							⊢⊢
		<u> </u>	- H					 		
		<u> </u>	\vdash							- H $ H$
									_	

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Date: April 10, 2013

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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.

	istributed												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS							_					
Distrib	uted Well	<u> </u>	_					_			_		
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS				-							_	
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS								_				
		0/0	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS											_	
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
) as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfer	ence CFS					_							
(A) = Tc	otal Interf.							•				_	
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) =	(A) > (C)												
	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

(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.

	asis 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 Rights Section.
	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwate 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;
3887	/CW Daniel and Card Com
SW	/ GW Remarks and Conditions
	
Dot	arances Head:
Ref	erences Used:

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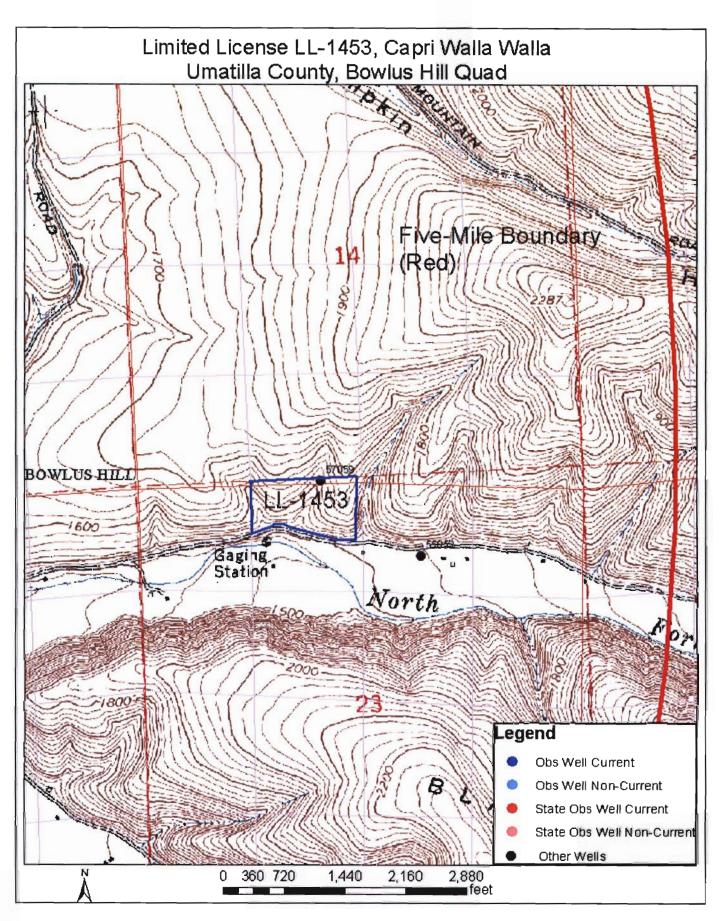
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D. WELL CONSTRUCTION, OAR 690-200

D1.	Well	#: Logid:						
D2.	a. [b. [c. [b. in field inspection by interpretation by interpretation in the field inspection in the field in t						
D3.	THE WELL construction deficiency: a.							
D4.	THE	WELL construction deficiency is described as follows:						
			_					
			_					
D5.	THE	WELL a. □ was, or □ was not constructed according to the standards in effect at the time of original construction or most recent modification.						
		b. \(\subseteq \text{I don't know if it met standards at the time of construction.} \)						
D6.	Rour is file	te to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstructed with the Department and approved by the Enforcement Section and the Groundwater Section.	n					
THI	S SECT	ION TO BE COMPLETED BY ENFORCEMENT PERSONNEL						
D7.	☐ Well	construction deficiency has been corrected by the following actions:						
			_					
		, 200						
		(Enforcement Section Signature)						
D8.	Rou	te to Water Rights Section (attach well reconstruction logs to this page).						



		:	7	
	amar	22 90' Who 105'	Marc Norto 4/1,12013	r
/ L 0Ð	broker boulds	Blat Brockin Bi		
1500	Black Brok 305 all 305 all	Broker Black Bosalt		
1400	Black Cinder Q Lava very perous 3-59 fm Hard Dense barsalt	Hard Block Baratt	1/15/1980	
1300	nedf Black cender very po vous water	Red Erroy Porous basalt		
Tops. 85500				10301. 00/13/200.