## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	Water Rights Section					Date <u>October 8, 2004</u>							
FROM	[:	Groui	nd Water/H	- Iydrology	Section		ael Zwart						
SUBJE	ECT:	Appli	cation G	16318			iewer's Name persedes re	view of	N/A	Date of Re	view(s)		
OAR 6 welfare to deter the pres	90-310-1 , safety a mine who sumption NERAL	30 (1) 7 and healt ether the criteria.	The Departi th as descri presumption This revie	nent shall p bed in ORS on is establ w is based	oresume the 537.525. ished. OA upon ava	Departmen R 690-310- ilable infor Name:	sed groundwa t staff review 140 allows t rmation and	v ground wat he proposed l agency poli mily Trust	ensure the presser applications use be modified icies in place at	inder OA l or condi	R 690-31 tioned to of evalu	l0-140 meet	
		_				subb	oasin Qu	ad Map: T	he Dalles Sout	<u>n</u>			
A2. A3.									o October 31	under lee	id).		
Well	Log		Applicant	s Pre	oposed quifer*	Propos Rate(c	ed	Location /R-S QQ-Q)	Location	n, metes a	and boun		
1 2	Propo	sed	1		CRB	1.48		3E-35 SW-S		, 1005' N			
3													
4	_			-									
5													
* Alluvi	um, CRB,	Bedrock	:										
Well	Well Elev ft msl	First Water ft bls	I II INIC I	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	900	25	Flow		3-400	0-45	0-45	0-110	None				
A4.	Comme	ents: <u>W</u>	or proposed ASC 2685 head of 94	was provid	led as an e	example, b	ut the appli	cant_will like	ely drill deeper	. A flow	ing artes	ian	
						- IIIe							
	7)————————————————————————————————————						4.00	- ¥					
A5. 🛭	manage (Not all	ment of basin r	the <u>Hood</u> ground wa ules contain	such provi	cally conn	nected to su	Basin ru	ıles relative t ☐ are, or ∑	o the developm are not, activ	ent, classi	ification a	and/or	
A6. 🔲		f admin	istrative are	ea:,	,	,	, ta	p(s) an aquif	er limited by an	administ	rative res	triction.	

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B. <u>G</u>	ROUI	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070											
B1.	Bas	Based 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.	will not or 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) 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 below;											
B2.	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 water reservoir between approximately ft. and ft. below land surface;											
	d.	<ul> <li>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.</li> <li>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):</li> </ul>											
В3.	eve sma wit B1c not	ound water availability remarks: Potential for water-level declines and overdraft of the resource exists virtually rywhere the Columbia River Basalt aquifers are developed, especially east of the Cascades where recharge is all. If no measurement/decline condition is used, as recommended above, then I would need to re-review the file, he the likely result being that one or both of the boxes 'will not likely be available' being checked under B1b or c. Also, the attached hydrograph for nearby State Observation Well #1030 displays moderate water-level declines, ably within the last 7-8 years. If future water-level monitoring in this area discloses continued declines, I will likely that the basalt ground water resource is over appropriated.											
	_												

Date: October 8, 2004

Application G-16318

\_\_\_\_\_ continued

1	Basa	ılt of the C	olumbia	River Basal	t Group			X		
								i era		100
		fer confine			n this area, l	pasalt aqui	fers are typi	cally confine	ed. The head	l is likely to
horizon assume	ntal dis	tance less t	han ¼ m ally conn	ile from a sui	nd hydraulic face water so urface water	ource that p	roduce water	from an unco	onfined aquif	er shall be
337 11	sw		, ·	. 37	GW	SW	Distance	Hydrau		Potentia Subst. Int
Well	#	Su	irtace Wa	ater Name	Elev ft msl	Elev ft msl	(ft)	Conne YES NO	ected? ASSUMED	Assum YES
1	1	Fivemile			950	880	300			
1	2		e Hollow		950	1000	3100			
1	3	Eightmi	<u>le Creek</u>		950	900	9700			
	<u> </u>									
							1		[1] [27.2]	
						1				
water-behalter behalter behalt	earing mbia t near vailal  040 (4 ed and nent to	zone that River. Ho by wells a bility Basin ): Evaluate l less than o that surface ate against	is likely owever, I lso sugge the wel ion of stre mile from the water s the 1% o	targeted. He am not able est that hydrell(s) are local earn impacts om a surface source, and not 80% nature	ation: All no lydraulic core to estimate aulic connected within:  for each well water source ot lower SW all flow for the low indi	these distance distan	likely at dov inces, due to r or distant Cr > Eightmi en determine luation to ins which the stre Water Availa ell is assume	vinstream rest the uncertal from the welle Cr at mound or assumed tream rights are am under evibility Basin (d) to have the	to be hydra and minimum aluation is to Quantity (3041053).	s. Water le 5). ulically a stream flow butary. Con is not distri- cause PSI.
	sw	Well <	Qw>	Water	Instream Water	Qw>	80% Natural	Qw > 1% of 80%	Interference	
Well	#	¼ mile?	5 cfs?	Right	Right Q	1%	Flow	Natural	@ 30 day:	Inter
				ΙĎ	(cfs)	ISWR?	(cfs)	Flow?	(%)	Assun
		П								
										<del>                                     </del>
					<del>-</del>	Н			-	
								1 1 1		

Date: October 8, 2004

Application G-16318 continued

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

C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

Application G-	16318	continued

Date: October 8, 2004

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:	This section does not apply.		

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.

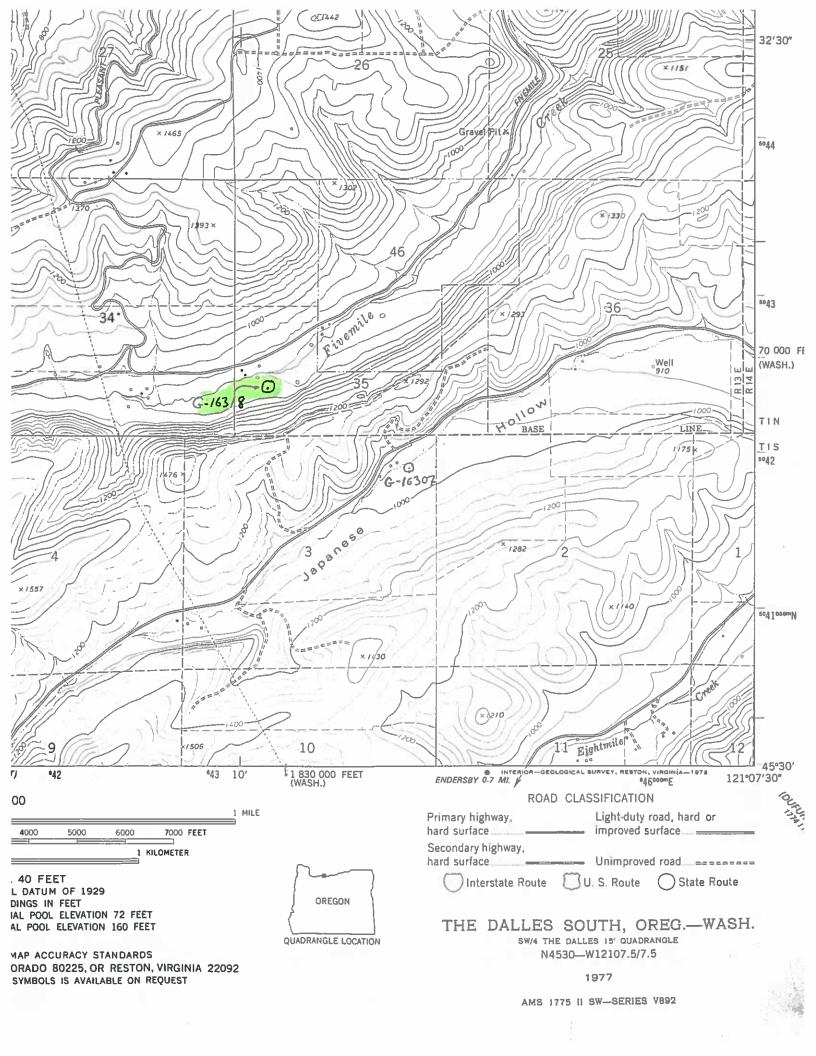
Non-Distribute	ed Wells						- 5					
Well SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
						_						
Distributed Well SW#	ells Jan	Feb	Маг	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS									Ì			
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS											_	
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS												
Interference CFS												
(A) = Total Interf.												
(B) = 80 % Nat. Q												
(C) = 1 %  Nat.  Q									-			
(D) = (A) > (C)	1	1	V	✓	<b>V</b>	1	<b>√</b>	<b>1</b>	<b>√</b>	/	1	1
$(E) = (A / B) \times 100$	%	%	%	%	%	%	%	%	%	%	%	%

Application G-1631	18continued	Date: October 8, 2004
CFS; (D) = highligh	ce as CFS; (B) = WAB calculated natural the checkmark for each month where (apact evaluation: This section does	al flow at 80% exceed, as CFS; (C) = 1% of calculated natural flow at 80% exceed, as A) is greater than (C); (E) = total interference divided by 80% flow as percentage, as not apply.
	0 (5) (1) (1)	
24b. <b>690-09-04</b> <b>Rights</b> \$	U (5) (b) The potential to impair ( Section.	or detrimentally affect the public interest is to be determined by the Wate
under this	y conditioned, the surface water sou permit can be regulated if it is found The permit should contain condition	arce(s) can be adequately protected from interference, and/or ground water use to substantially interfere with surface water:
		condition(s) as indicated in "Remarks" below;
26. SW / GW Ren	narks and Conditions	
References Us	ed: Local well logs; local knowle	edge; reviews of nearby files; personal communication with Marc Norton.

App	licati	n G- <u>16318</u> continued Date: <u>October 8, 2004</u>	_
D. <b>V</b>	VEI	CONSTRUCTION, OAR 690-200	
D1.		/ell #: 1 Logid: Proposed	
D2.		HE WELL does not meet current well construction standards based upon:  review of the well log; field inspection by report of CWRE other: (specify)	_;
D3.		HE WELL construction deficiency:  constitutes a health threat under Division 200 rules;  commingles water from more than one ground water reservoir;  permits the loss of artesian head;  permits the de-watering of one or more ground water reservoirs;  other: (specify)	
D4.		HE WELL construction deficiency is described as follows:	
			_
			_
D5.		HE WELL  a. □ was, or □ was not constructed according to the standards in effect at the time of original construction or most recent modification.  b. □ I don't know if it met standards at the time of construction.	
D6.		toute to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction filed with the Department and approved by the Enforcement Section and the Ground Water Section.	
TH	IS S	CTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7.		rell construction deficiency has been corrected by the following actions:	
		77 - 197 600 L 200-1	_
			_
		200	
		(Enforcement Section Signature)	_
D8.		Route to Water Rights Section (attach well reconstruction logs to this page).	
-			-

## Water Resources Department

M	(EM	O						Octo	ber	8	, 200 <u>4</u>		
FI	O_ ROM JBJE		GW:	Michael Watery	el Zi		ce Eva	luation			W #		
	/	les lo	The sou	irce of a	рргоргі	ation is	within	or above	e a Scer	nic Wat	erway		
	] Y	es U	Jse the :	Scenic \	Waterwa	ay condi	tion (C	onditio	ı 7J).	2			
PRE	PONI	ev su	t this ti ridence rface w	me the that the ater flow	Departi	FINDIN ment is psed use essary to ecessary	unable of gr	to find	l that the	here is	a prepo	nue) onderance reduce of a sc	e of the enic
Water	way be water	DUCT	ION: (T	o be fill	ed out o	only if <u>P</u>	repond	erance (	of Evide	ence bo	x is not	checked) Sce	
J	lan	Feb	Mar	Apr	May	Jun	Jul	Aug				- 10	





## Hydrograph for State Well WASC 2672, State Observation Well # 1030

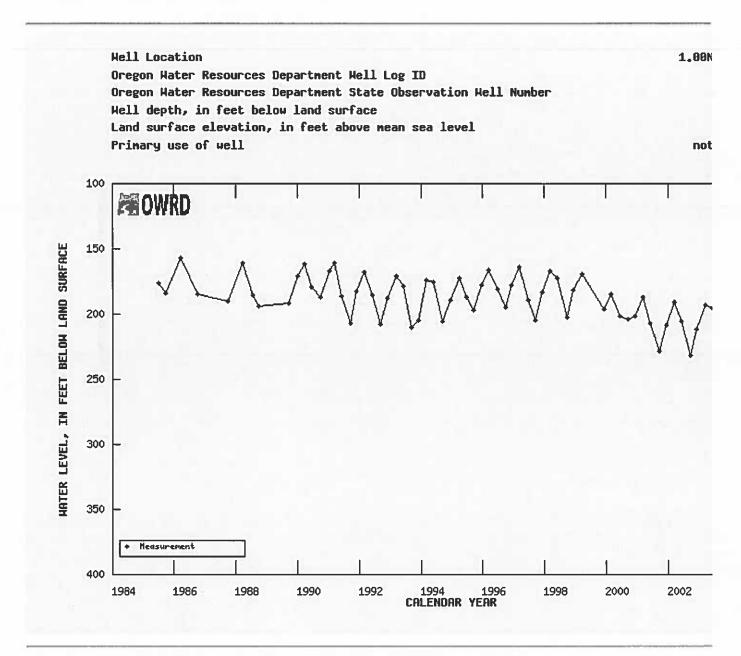


Table showing water-level data for State Well WASC 2672, State Observation Well # 1030

## Wells in the vicinity of application G 16318 Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application wall(s) Application well(s) in this 1/4-1/4 section Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s) Critical GW Area Well(s) identified in this section from OWRD's well log database within 1 mi-radius of application well(s) Regulated GW Area Permitted well(s) in this 1/4-1/4 section within 1 mi- radius of application well(s) OWRD Observation well and well-id within 5 mi-radius of application well(s) 36 A 103 Endersby 1 3 E

ABANDON:	0	
RECONDITIONED:	7	
REPAIRED:	3	
CONVERSION:	0	
DEEPENINGS:	10	
NEW CONSTRUCT:	54	
COMMUNITY USE:	0	
DOMESTIC USE:	56	
INDUSTRIAL USE:	1	
INJECTION USE:	0	
IRRIGATION USE:	15	
THERMAL USE:	0	
LIVESTOCK USE:	0	
*****	****	*******

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 16318

\$RECNO	APPI	LICATION	PERI	TIM	CLAIM		LOC-QQ	USE_CODE
1	G	13673	G	12708		0	1.00N13.00E27NWNW	IC
1	G	13690	G	12929		0	1.00N13.00E27NWNW	IR
1	G	13690	G	12929		0	1.00N13.00E27NWNW	IS
1	G	15254	G	15184		0	1.00N13.00E27NWNW	IS
1	G	15254	G	15184		0	1.00N13.00E27NWNW	DN
1	S	22295	S	17580		0	1.00N13.00E27NWNW	IR
1	S	39834	S	29656		0	1.00N13.00E27NWNW	IR
2	G	8638	G	8294		0	1.00N13.00E27NENW	FR
2	G	8638	G	8294		0	1.00N13.00E27NENW	IC
2	G	7186	G	6618		0	1.00N13.00E27NENW	IS
3	G	10667	G	9762		0	1.00N13.00E34NENW	IR
4	G	2699	G	2511		0	1.00N13.00E36NWNW	IS
4	G	2699	G	2511		0	1.00N13.00E36NWNW	IR
5	G	134	G	38		0	1.00N13.00E36NWSE	IR
5	G	406	G	281		0	1.00N13.00E36NWSE	IR
6	G	1354	G	1233		0	1.00N13.00E34NESW	IR
7	G	6620	G	6198		0	1.00N13.00E34SWSW	IR
8	G	16307		0		0	1.00S13.00E 3NENE	IR
	**	*****	***	*****	*****	* * 1	**********	

NO CONDITIONED WELLS WITHIN 1 MILE OF APPLICATION G 16318

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APPLICATION G 16318 FALLS WITHIN THESE QUAD(S)

THE DALLES SOUTH

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The following OWRD Groundwater Management Areas are within the map extent:

\$RECNO		NAME1		NAME2	NAME2		STATUS
	1	THE	DALLES				CRIT
	2	THE	DALLES	THREEMILE	RESERVOIR		CRIT
	******						