Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## 6-17473

ROUTED TO: Water Rights - Kerry

TOWNSHIP/

RANGE-SECTION: 35/3W-33 + 34

CONDITIONS ATTACHED? Lives [1 no REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwnt

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	ection				Date	e	October	10, 201	1		
FROM	:	Grou	nd Water/l	Hydrology	Section _			Zwart						
SUBJE	CT:	Appli	ication G	17473				s Name edes re	view of			Date of Re	view(s)	
OAR 69 welfare, to deter	90-310-1 safety and mine who umption	30 (1) 2 nd heal ether the criteria	The Departs th as descri e presumpti This revie	ibed in ORS on is establi w is based ON: A	resume the 537.525. I ished. OAF upon avai	at a propos Departmen R 690-310- lable info	sed g it stat 140 rmat	f review allows the ion and and and and and and and and and an	ater use will ground wate he proposed agency poli Properties, Willamette	er app use be cies i	re the preso plications use modified in place at	ervation of under OA I or condi	of the pub R 690-31 tioned to of evalu	10-140 meet ation.
						subb			ad Map: D					
A2. A3.									March 1 to rk proposed			under log	gid):	
Well	Logid Proposed		Applicant's Prop Well # Aqu		oposed quifer*	Propos Rate(c:	fs)	Location (T/R-S QQ-Q) 3S/3W-34 SW-NW		w	Location, metes and bounds 2250' N, 1200' E fr NW cor S 2070' S, 420' E fr NE cor S			r S 36
2	Propo		6		CRB				W-33 NW-SE		3025' S, 1350' W fr NE cor S 33			
3 4														
5	077.0							_						
* Alluviu	ım, CRB,	Bedrock	C						_					
Well	Well Elev ft msl	First Water ft bls	f bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	In	Casing tervals (ft)	Liner Intervals (ft)		forations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1 2	680 825				400± 400±	0-60	0-0							
2	025				400±	0-00	U-()U						
Use data	from app	lication	for proposed	wells.										
A4.	Comme	ents: <u>Pr</u>	oposed co						well logs su					400
A5. 🛛	manage (Not all	ment of basin r	ules contair	ter hydrauli n such provi	cally conno	ected to su	rface	water [iles relative t □ are, or 🗵] are	not, activa	ated by th	is applic	
A6. 🗌	Name o	f admir	istrative ar	ea:	_ZZ				p(s) an aquif			administ	rative res	triction.

Version: 08/15/2003

<u>GR</u>	OUN	D WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
1.	Bas	ed upon available data, I have determined that ground water* for the proposed use:
	a.	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;
	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)
	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.	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):
	this reso hea the	ound water availability remarks:
		en may be adequate to prevent comminging.
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	_	

Date: October 10, 2011

Application G-17473 continued

Ann	lication	G_{-1}	17473
ADD	псаноп	(1-	1 /4 /)

CO	ntın	ued

Date: October 10, 2011

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

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

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1, 2	Basalt of the Columbia River Basalt Group		

Basis for aquifer confinement evaluation:	Basalt aquifers are typically confined, and most nearby well logs report the	<u>1e</u>
static water level above the depth where gi	oundwater ws first encountered.	

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 Elev Elev Connected? YES NO ASSUMED		Potential for Subst. Interfer. Assumed? YES NO			
1	1	Unn. trib., Willamette River	Unk.	580	1470		
1	2	Unn. trib., Hess Creek	Unk.	400	1560		
2	1	Unn. trib., Willamette River	Unk.	580	1350		
2	2	Unn. trib., Hess Creek	Unk.	670	1350		
				C- m-L			

Basis for aquifer hydraulic connection evaluation: The recommended well construction condition will prevent hydraulic connection with nearby stream reaches. Hydraulic connection is possible with more distant reaches, but it is not possible to determine the distances with certainty due to the unknown geologic structure in the area.

Water Availability Basin the well(s) are located within: Willamette R > Columbia R ab Molalla R

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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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 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.

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS							_					
	nce CFS												
	uted Well												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
	_	%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS												
Interfere	ence CFS												
(A) = Tot	tal Interf.												
• •	% Nat. Q												
(C) = 1 %						-							
(D) = (A)) > (C)	1		v'		· √	<u></u> √	1		√	√	√	√′
. , ()	/ 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.

Applic	ation G- <u>17473</u> continued	Date: October 10, 2011
,		
	Basis for impact evaluation:	
C4b.	690-09-040 (5) (b) The potential to impair or detring Rights Section.	nentally affect the public interest is to be determined by the Water
C5. 🗀	under this permit can be regulated if it is found to substation. The permit should contain condition #(s)	<u> </u>
	ii. The permit should contain special condition	(s) as indicated in "Remarks" below;
26. SV	V / GW Remarks and Conditions	
_		
_		
_	<u> </u>	
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_		
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_		
_		
_		
_		
<u>A</u> c	quifer System, Oregon and Washington, USGS Profess	eviews; Hydrogeologic Framework of the Willamette Lowland ional Paper 1424-B, by Woodward, Gannett and Vaccaro, 1998: System, Oregon and Washington, USGS Professional Paper
14 Sc	24-A, by Gannett and Caldwell, 1998; Ground-Water	Hydrology of the of the Willamette Basin, Oregon, USGS al, 2005; Origin, Extent, and Thickness of Quaternary Geologic
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D1.	Well #:	Logid:	
D2.	a. review of the welb. field inspection bc. report of CWRE	eet current well construction standards based upon: log; v	
D3.	b. commingles watec. permits the loss ofd. permits the de-wate	th threat under Division 200 rules; er from more than one ground water reservoir;	
D4.	THE WELL construction	n deficiency is described as follows:	
D5. D6. [b. Route to the Enforceme	 was, or was not constructed according to the standards in effect at the time of original construction or most recent modification. I don't know if it met standards at the time of construction. nt Section. I recommend withholding issuance of the permit until evidence of well reconstruction. 	uction
	is filed with the Departme	nt and approved by the Enforcement Section and the Ground Water Section.	
THIS	SECTION TO BE COM	APLETED BY ENFORCEMENT PERSONNEL	
D7. [Well construction deficier	ncy has been corrected by the following actions:	
			<u>_</u>
		, 20	00
	(Enforcement Sec		
D8. [Route to Water Rights 9	Section (attach well reconstruction logs to this page).	

Date: October 10, 2011

Application G-17473 continued

STATE OF OREGON WATER RESOURCES DEPT WATER SUPPLY WELL REPORT SALEM, OREGON (as required by ORS 537.765) (1) LAND OWNER: Well Number: Name: Jim Crawford Address: 6291 NE Breyman Orchards Rd Zip: 97114 City: Dayton State: OR (2) TYPE OF WORK: (ropair/ New Well □Deepening □Alteration recondition)□Abandonment (3) DRILL METHOD: ⊠Rotary Air □Rotary Mud □Cable □Auger `∐Other: (4) PROPOSED USE: ☑Domestic ☐Community Industrial Irrigation Livestock Other Injection Thermal (5) BORE HOLE CONSTRUCTION: Special Construction approval ☐Yes ☒No Depth of Completed Well 454 Explosives Used ☐Yes ☒No Type Amount HOLE SEAL sacks or Diameter From To Material From pounds 10" 0 295 bent chps 0 50 24 inc bf cement 58 292 70 bags 6.25 295 454 How was seal placed: Method □A □B ☒C □D □E Other poured-probed Backfill placed from 50 to <u>58</u> Material bent chps Gravel placed from_ Size of gravel to (6) CASING/LINER: CASING: Diameter Steel Plastic WeldedThreaded From Gauge To \boxtimes 6" +18 295 .250 $\overline{\Box}$ LINER: 4" 274 414 160# 414 454 sch40 \boxtimes Drive Shoe used Inside Outside ☐ None Final location of Shoe(s): 295 (7) PERFORATIONS/SCREENS: □Perforations Method: saw cut ☐ □ Screen Туре: Material: Slot Tele/pipe Size No. Diameter Casing Liner From To size \boxtimes 414 454 1/8x7 84 4 pipe ŏ Ī $\overline{\Box}$ (8) WELL TESTS: Minimum testing time is 1 hour □□Bailer ☑ Air □ ☐ Flowing Artesian Yield gpm Drawdown Drill Stem at Time 10.5 N/A 450 1 hr. N/A 410 10 1 hr. Depth Artesian Flow Found Temperature of water 55 Was a water analysis done? By whom: Did any strata contain water not suitable for intended use? (explain) Depth of Strata:

WELL ID # L 42495

treet Address o	Lot: [Well (or neares, Dayton, Orege)	est address)	<u>SW</u> Subdi 6291 NE	¼ vision: Breyma	<u>m</u>		
10) STATIC V	VATER LEVE	Date <u>4/12/01</u> Date					
epth at which v	EARING ZON vater was first for	ound <u>63</u>	-				
From	75 To	Est.	How Rate		SWL 47		
53 396	452	1-2 gpm	1-2 gpm 10.5 gpm				
	432		312				
12) WELL LO		Ground Ele		~	CT 1/7		
top soil	Material		From 0	To	SWL		
clay red			1	11	+		
rock decomp w	thd gray/brwn		11	58			
basalt gray med	1		58	63			
basalt brwn dec			63	75	47		
	n fract slightly	decomp	75	119			
basalt brwn dec			119	148			
basalt gray dec			148	170			
basalt gray/brw		170 179	179 231				
basalt brwn dec	n fract slightly	231	259				
basalt brwn dec		259	275	 			
basalt gray med	l-hrd w/occ brw	275	297				
basalt gray/brw	n med slightly	297	336				
basalt gray med	l-hrd	336	339				
basalt brwn me		339	348				
claystone gray		348	349				
basalt drk gray	hrd	349	396				
	n med-hrd fract		396 415	415			
basalt gray hrd basalt brwn dec		· · · · · · · · · · · · · · · · · · ·	423	423			
basalt drk gray				452			
claystone gray/			452	454	marine		
-4- St1-1-4"	E/01			12/0:			
ate Started: 4/5		_	pleted: 4/	12/01			
l certify that andonment of the instruction standa	Well Constructor the work I perfor is well is in compl ords. Materials us nowledge and beli	med on the c liance with O ed and inforn	onstruction, regon water nation report	supply of led above	well e are true		
gned			WWC Nu Date	mber			
		rtification:					

Signed M. X.

WWC Number 1483 Date 4/28/01

ARROW DRILLING 503-538-4422

WATER RESOURCES DEPARTMENT

MEM	(O							Och	ber	10 ,2	200_1_
TO: FROM SUBJ		Application G-17473 GW: M. Le Zwyt (Reviewer's Name) Scenic Waterway Interference Evaluation									
	_YES	The so	ource of	appropi	riation is	s within	or abov	ve a Sce	nic Wat	erway	
	_YES _NO	Use the	e Scenic	Water	way con	dition (Conditi	on 7J)			
	Per OF interfe the Detthat the	RS 390.3 rence wated interested interested interested interested interested in the control of th	erference 835, the ith surfa ent is ur	ace wate e is distr Ground ace wate able to e will m	er that c ributed by d Water er that c find the leasura	ontribut below. Section ontribut at ther bly red	is unal es to a s e is a pi uce the	ole to cascenic weeponde	Waterwa	ground y; there of evide	water
Calcula calculat informit Exerci Watery	te the per ted, per cong Water se of the way by	ON OF reentage of riteria in Rights the is permited to the following the control of the following th	of consum 390.835, at the Dep t is calcowing an	nptive use do not fil partment ulated to mounts	by month ll in the to is unable o reduce	able but contact to make the month	heck the a Prepon ly flows	"unable" derance s in	option a of Eviden	bove, thu ce findin	s g. Scenic
		water f			Year	fu!	A	Com	(2.4	i Nr.	Des
Jan	Feb	Mar	Apr	May	Jun	Jul.	Aug	Sep	Oct	Nov	Dec

