Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-17461

ROUTED TO: Water Rights

TOWNSHIP/

RANGE-SECTION: 55/1E-10

CONDITIONS ATTACHED? [나yes []no REMARKS OR FURTHER INSTRUCTIONS:

See conditions on pages 2

Reviewer: Karl Wazniak

WATER RESOURCES DEPARTMENT

MEN	10							acto	ber	1)	, 200 _	201
TO:	M:			G- <u>17</u>						15 17		
SUBJ	ECT:			rway In			luation	ı			,	
V	_YES	The so	ource of	approp	riation i	s withir	or abo	ve a Sce	enic Wa	terway		
	_YES	Use th	e Sceni	c Water	way coi	ndition ((Conditi	on 7J)				
	Per Ol interfethe De that the	erence wated into	vith surferferences 835, the vith surferent is un osed us	e Ground e is dist e Ground ace watenable to be will not the fr	er that or ributed d Water er that or find the reasura	Section ontribution on the contribution of the	is unal tes to a se is a pr uce the	ble to cascenic vereponde surface	Waterwalculate vaterwalerance e water	ground y; ther of evid flows	l wate efore, ence	
Calcula calculat informin Exerci Watery	te the per ted, per cong Water se of the way by	rcentage oriteria in Rights th	of consum 390.835, at the De t is calc	FEREN nptive use do not fü partment culated t mounts educed	by mont. Il in the to is unable o reduce express	able but contact to make month	heck the a Prepon ly flows	"unable" derance s in	option a of Eviden	bove, thi	us ng. Sceni	c
J'an	F'eb	Mar	Apr	May	Jún	Jul	Aug;	Sep	Oct	Nov	Dec	_

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

ТО:		Water	Rights S	ection				Dat	e Oc	tober	11, 2011		
FROM	[:	Ground	d Water/	Hydrology	Section								
SUBJI	ЕСТ.	Annlic	ation G-	17461			ewer's Name persedes	review of					
5 C D 3 1	201.	rippiic	ation G	17401		Suj	50150005				Date of Rev	iew(s)	
OAR 6 welfare to deter	90-310-1 e, safety a rmine who	30 (1) The nd health ether the	he Depart n as descr presumpt	<i>ibed in ORS</i> ion is establi	resume that 537.525. Do shed. OAR	a propose epartment 690-310-1	ed ground staff revi	water use will ew ground wat s the proposed and agency pol	er applica use be mo	tions u odified	nder OA	R 690-31 to	0-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIC	<u>ON</u> : Ap	oplicant's N	ame:	Willamet	te Egg Farms		(County:	Clackan	1as
A1.	. Applicant(s) seek(s) <u>0.557</u> cfs from <u>3</u> well(s) in the <u>Willamette</u> Basin, subbasin Quad Map: <u>Yoder</u>												
A2. A3.						l Seas	onality: _	Irr: Mar 1	– Oct 31;	Com/I	nd: Year	Round	
Well	Logid Applicant's Well #		's Propose	ed Aquifer*	Proposed Location Rate(cfs) (T/R-S QQ-Q)				Location, metes and bounds, e.g 2250' N, 1200' E fr NW cor S 36				
1	CLAC 2		1		luvium	0.557		05S/01E-10 SW/NW		1890' S, 380' E fr NW cor S 1			r S 10
3	CLAC 2 Proposed V		3		luvium luvium	0.557 0.557		05S/01E-10 S 05S/01E-10 S		1780' S, 280' E fr NW cor S 10 1380' S, 1230' E fr NW cor S 10			
4	Floposed	Well 3	3	Al	iuvium	0.3	37	033/01E-10 3	W/INW	130	0 3, 1230	EHRWO	01 3 10
5													
* Alluv	ium, CRB,	Bedrock											
Well	Well Elev	First Water	SWL ft bls	SWL Date	Well Depth	Seal Interval	Casing Interval		Perfora Or Scr	eens	Well Yield	Draw Down	Test Type
1	ft msl	ft bls	80	09/08/1986	(ft) 324	(ft) 0-18	(ft) 0-164	(ft) 147-295	See well 1		(gpm) 300	(ft) 210	P
2	221	59	97	09/07/1974	180	0-20	0-170				85		A
3	235				265	0-150	0-260		150-2	60			
Use dat	a from app	lication fo	or proposed	d wells.									
A4.				n for Propose	ed Well 3 is	as stated	on the app	olication.					
A5. 🛭	manage (Not all	ment of basin ru	les contai	ater hydrauli n such provi	cally connections:)	cted to sur	face wate	rules relative r are, or nce the wells v	☑ are not	, activa	ated by th	is applica	ation.
A6. 🗆	Name of	of admini	strative an	rea:				tap(s) an aqui					striction.

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Date: October 11, 2011

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

	ased upon available data, I have determined that ground wate	_ for the proposed use:	
a.	is over appropriated, is not over appropriated, or period of the proposed use. * This finding is limited to determination as prescribed in OAR 690-310-130;		
b.	will not or will likely be available in the amounts rough is limited to the ground water portion of the injury determined to the ground water portion of the ground water p		
c.	will not or will likely to be available within the cap	pacity of the ground wate	r resource; or
d.	 i. The permit should contain condition #(s) 7B, ii. The permit should be conditioned as indicated 	7C in item 2 below.	
	iii. The permit should contain special condition(s)		
a.	_		
b.	Condition to allow ground water production from no s	nallower than	ft. below land surface;
c.	Condition to allow ground water production only from water reservoir between approximately ft.	the alluvial	ground
	Describe injury —as related to water availability— that is senior water rights, not within the capacity of the resource		ell reconstruction (interference w/
surf son	Fround water availability remarks: _The applicant's wells are urface to a depth of about 30 feet. Sands and gravels with some thin beds of sand, occur from 100 to about 1000 feet. Limitation of ediceases at the contract of the sands are under the sands and gravels with some sands are under the sands are u	clay and silt occur from :	30-100 feet. Clays and silts, with
	levation of adjacent stream reaches.		
Wa		the aquifer system shoul	
	Vater levels in the area appear to be relatively stable. Therefore equested on this application.		ld be capable of supporting the use
			ld be capable of supporting the use
			ld be capable of supporting the use
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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	Alluvium	\boxtimes	
2	Alluvium		
3	Alluvium		

Basis for aquifer confinement evaluation: Water-bearing zones in the wells are confined by 20-40 feet of fine-grained sediment. Additionally static water levels in nearby wells rise above the elevation of water-bearing zones. These factors suggest the wells produce from a confined aquifer.

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	Bear Creek	125	160-190	5100		
2	1	Bear Creek	125	160-190	5000		
3	1	Bear Creek	125	160-190	4300		
	1						
					A compression		
							e Park

Basis for aquifer hydraulic connection evaluation: USGS 7.5-minute topographic maps indicate that Bear Creek is perennial but other tributaries and Cedar Creek are intermittent within essentially a one-mile radius of the wells. However, static water levels on the well logs for Well 1 (CLAC 2430) and Well 2 (CLAC 2431) indicate water level heads of about 125-130 feet above mean sea level (at the time the wells were drilled in 1974 and 1986). These heads are considerably below the elevations of adjacent stream reaches including Bear Creek. This suggests that the water table is well below the elevation of these streams in the adjacent area. Therefore, it is likely that these streams are not hydraulically connected to the alluvial aquifer within a one-mile radius.

Water Availability Basin the well(s) are located within: PUDDING R > MOLALLA R - AB MILL CR

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?
				_						
									_ X5.310Y	

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.

	Right ID	Right Q (cfs)	ISWR?	Flow (cfs)	Natural Flow?	@ 30 days (%)	for Subst. Interfer. Assumed?

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	tributed SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
17 011	JIII	7an %	%	Wiai %	Αpi %	wiay %	7uii %	3ui %	Aug %	3cp	%	%	%
11/-11 ()	OEC	%	%	%	%	%	%	% 0	%	%	%	%	- %
Well Q													
interierer	ice CFS												
Distribu	ted Wells	5	-										
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS			_									
Interferer	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS		2000										
Interferer	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS												
Interferer	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS												
Interferer	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS												
Interferen	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	9/
Well Q	as CFS												
Interfere	nce CFS												
itura, jturitinism		- Shijii Billing	or a seed-distrib	intakidis a pa p		·							
(A) = Tota								Di .					
(B) = 80 %	% Nat. Q												
(C) = 1 %	6 Nat. Q												
$(\mathbf{D}) = (A$	A) > (C)	✓	· ✓	V	1	V	✓	· /	· ✓	· /	√	· ✓	√
	, , ,		%	%	%		%	%				%	%

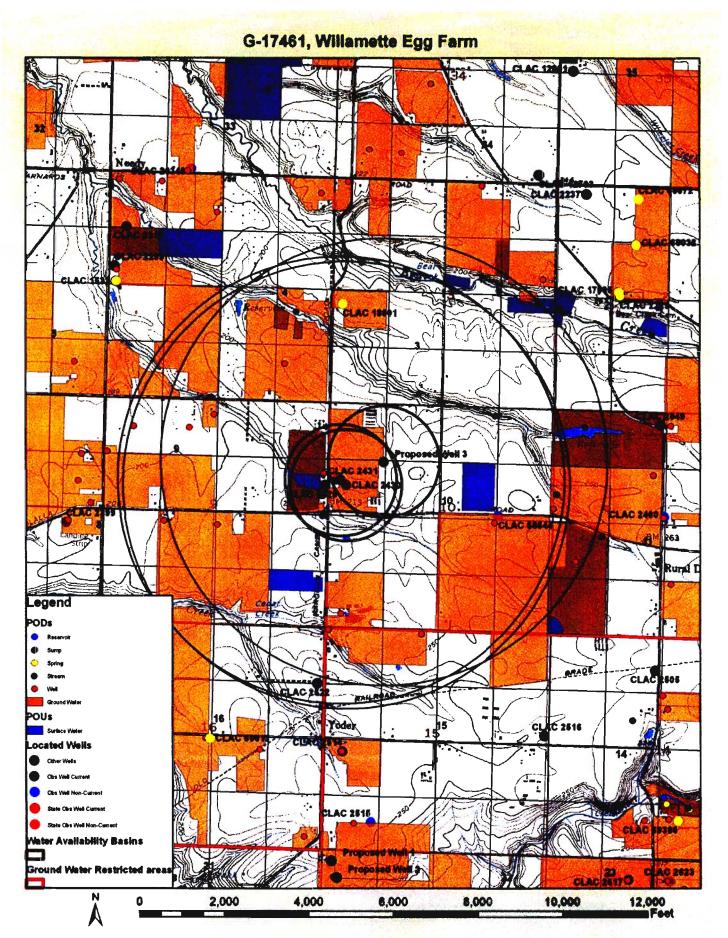
(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

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Basis for impact evaluation:			
	minds (see-bulk) (100-see-see-) (see-) (d	1000000	
		•	
b. 690-09-040 (5) (b) The potential Rights Section.	to impair or detrimentally affect the p	oublic interest is to be determi	ned by the Wat
. <u> </u>	f it is found to substantially interfere with	h surface water:	ground water use
ii. The permit should cont	ain condition #(s) ain special condition(s) as indicated in "l	Remarks" below;	
. SW / GW Remarks and Conditions: Sahallower than 100 feet below land surfa	pecial Condition: Well 3 shall be con	nstructed to allow groundwater p	production from
There is some uncertainty shout head di	stributions in the alluvial aquifer. Since	the finding of no hydraulic conr	action in Section
C2 is highly dependent on two water lev	el values collected many years ago, it is	considered prudent to ensure the	at no production
allowed from shallow sand and gravel be to local stream reaches.	eds, if they happen to be saturated. This	should preclude any direct hydr	aulic connection
to local stream reaches.			
1893			
References Used:			
	ck, D., Herrera, N.B., Fisher, B.J., Morga ette Basin, Oregon: U.S. Geological Surv		
	Geologic framework of the Willamette L per 1424-A, 32 p.		
	/accaro, J.J., 1998, Hydrogeologic frame		

D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	Logid:	
O2.	a. review of b. field inspace. report of	es not meet current well construction standards based upon: of the well log; pection by f CWRE pecify)	<u>;</u>
D3.	a. constitut b. comming c. permits t d. permits t	astruction deficiency: tes a health threat under Division 200 rules; gles water from more than one ground water reservoir; the loss of artesian head; the de-watering of one or more ground water reservoirs; specify)	
D4.		nstruction deficiency is described as follows:	
D5. D6. [a. was, or was not constructed according to the standards in effect original construction or most recent modification. b. I don't know if it met standards at the time of construction. aforcement Section. I recommend withholding issuance of the permit until evidencement and approved by the Enforcement Section and the Ground Water Section. 	idence of well reconstruction
THIS	SECTION TO B	BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7. [Well construction	n deficiency has been corrected by the following actions:	
D8. [ement Section Signature) Rights Section (attach well reconstruction logs to this page).	, 200
, L	Route to water	Augus Section (attach wen reconstruction logs to this page).	



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