# Water Right Conditions Tracking Slip Groundwater/Hydrology Section FILE # # G-17622. ROUTED TO: Uster Rights - Keiny TOWNSHIP/ RANGE-SECTION: 35/1W-34 bb CONDITIONS ATTACHED?: [] yes [] no REMARKS OR FURTHER INSTRUCTIONS: Reviewer: Mike Zwart

# WATER RESOURCES DEPARTMENT

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TO: FRO SUB	M: JECT:	GW:	ication  Mh  (F)  c Wate	e Z	. W&v† Name)	· .	aluation	1			
	_YES _NO	The so	ource of	approp	oriation :	is withir	ı or abo	ve a Sce	enic Wa	terway	
	_YES _NO	Use th	ne Sceni	c Water	rway co:	ndition	(Condit	ion 7J)			
	interfection interfection interfection interfection that the properties of the prope	erence vated into RS 390. erence was epartmondereprop	vith surferferences 835, the vith surferent is un osed us	ace wat e is dist e Ground ace wat nable to e will n	er that of the control of the contro	contributed below.  Section contributed thered	tes to a  is una tes to a  e is a p  uce the	e to calc Scenic Y ble to ca scenic v repondo surfaco of a sce	Waterwalculate vaterwalerance water	ground y; there of evide flows	water e <b>fore,</b>
Calcula calcula informi Exerci Water	ite the per ted, per c ng Water se of th way by	rcentage riteria in Rights th is permi the follo	390.835, at the De t is calc	nptive use do not fi partment sulated t mounts	e by mont Il in the to is unable to reduc	able but c e to make e month	heck the a Prepor ly flows	ole below. "unable" aderance s in on of th	option a of Eviden	bove, thu ice findin	s g. Scenic
an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

# PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

CT:		nd Water/F	łydrology	Section_	Mich	aal 7 want					
	Appli	cation G-				ael Zwart					
	Appn	carron Ci-	17622			iewer's Name persedes re	wiew of				
CINT		_	1/022		Su	perseues re	view oi		Date of Re	view(s)	
90-310-1 safety and mine who umption	30 (1) 7 and healt ether the criteria.	th as describe e presumption This revie	nent shall p bed in ORS on is establ w is based	stanta the	at a propos Departmen R 690-310- ilable infor	ed groundw t staff revie 140 allows t mation and	w ground wat the proposed to agency poli	er application use be modified cies in place	s under OA ed or condi at the time	AR 690-3 tioned to of evalu	10-140 meet ation.
Applica	int(s) se	ek(s) <u>0.94</u>	7 cfs from	m <u>one</u>							_ Basin,
Propose Well an	ed use: _ d aquif	Irris er data (atta	gation-nur ich and nu	sery, 51.1 mber logs	ac. Seas	sonality: g wells; ma	March1 to	October 31 wells as such	under log	gid):	
Logid Applicant's Well #					fs) (T		2250	N, 1200' E	fr NW co	S 36	
Propo	sed	1	All	luvium	0.947	3S/1V	V-34 NW-N\	V* 400' N,	330' E fr N	W cor SV	V/NW 3
				_							
m, CRB,	Bedrock	(									
Well Elev ft msl	First Water ft bls	. SWL ft bls	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
184				200	0-30?	?					
from app	lication	for proposed	wells.	•					•		
Comme	ents: <u>*1</u> tes the	The metes a proposed w	nd bounds vell as state	above do	not jibe w metes and	ith the man	provided by is not known	the applicat	nt. The ma	p include	ed with
					_	_					
manage (Not all	ment of basin r	ground wat ules contain	ter hydraul such prov	ically conn isions.)	ected to su	rface water	are, or 🗵	are not, acti	ment, class vated by th	ification and its application	and/or ation.
Name o	of admin	istrative are	ea:							rative res	triction.
	m, CRB, Well Elev ft msl 184  Provis manage (Not all Comme	roments: *Tiew locates the Mell(s) #	rine whether the presumption in whether the proposed is seek(s)	safety and health as described in ORS nine whether the presumption is establ amption criteria. This review is based  NERAL INFORMATION:  Applicant(s) seek(s)	safety and health as described in ORS 537.525.  nine whether the presumption is established. OAl amption criteria. This review is based upon available.  NERAL INFORMATION: Applicant's  Applicant(s) seek(s) 0.947 cfs from one  Proposed use: Irrigation-nursery, 51.1  Well and aquifer data (attach and number logs)  Logid Applicant's Proposed Aquifer*  Proposed I Alluvium  m, CRB, Bedrock  Well First SWL SWL Depth (ft) Date (ft)  Is a 184 200  from application for proposed wells.  Comments: *The metes and bounds above do iew locates the proposed well as stated by the remanagement of ground water hydraulically conn (Not all basin rules contain such provisions.)  Comments: Well(s) #	safety and health as described in ORS 537.525. Departmennine whether the presumption is established. OAR 690-310- Imption criteria. This review is based upon available information criteria. This review is based upon available information.    Applicant(s) seek(s)	safety and health as described in ORS 537.525. Department staff revienine whether the presumption is established. OAR 690-310-140 allows tamption criteria. This review is based upon available information and important or in the presumption or iteria. This review is based upon available information and important or iteria. This review is based upon available information and important or iteria. This review is based upon available information and important or iteria. This review is based upon available information and important or iteria. The proposed is seek(s)	safety and health as described in ORS 537.525. Department staff review ground wat nine whether the presumption is established. OAR 690-310-140 allows the proposed imption criteria. This review is based upon available information and agency politically in the substance of proposed in the proposed substance of the will amount of the wi	safety and health as described in ORS 537.525. Department staff review ground water application nine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified imption criteria. This review is based upon available information and agency policies in place is NERAL INFORMATION:  Applicant's Name: RDO Farms, Ray Klupenger  Applicant(s) seek(s)0.947	safety and health as described in ORS 537.525. Department staff review ground water applications under OA into whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or condimption criteria. This review is based upon available information and agency policies in place at the time NERAL INFORMATION:  Applicant's Name:	Applicant(s) seek(s)

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ROU	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
Ba	sed 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.	$\square$ will not or $\square$ 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):
	round water availability remarks: The nearest current State Observation Well has been displaying relatively able water levels in recent years, but there was a slight downward trend that began in the mid-1980s.
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continued

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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	Sand and gravel (Quaternary-Late Tertiary sediment aq.)	$\boxtimes$	

Basis for aquifer confinement evaluation: <u>Most local well logs report water levels above the depth that groundwater was first encountered.</u> Regionally, the aquifer is incised by major creeks and rivers and is likely semiconfined to unconfined.

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	Willamette River	135±	55±	4300		

Basis for aquifer hydraulic connection evaluation: The heads in the alluvial aquifer are generally above the elevation of nearby surface water sources, so it is likely that groundwater in the alluvium is discharging to nearby streams.

Water Availability Basin the well(s) are located within: Willamette R > Columbia R above Molalla R (182).

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 \( \subseteq \) 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?
1	1			182	1500		3830		<25%	
							_			

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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?
				Section 2				
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
1		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	s CFS												
Interfere													
mener	nec er s							_					
Distrib	uted Wells	s											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	s CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	is CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	is CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	is CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	is CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a													
Interfere	nce CFS												
(A) = Tot	al Interf.												
$(B) = 80^{\circ}$													
(C) = 1 %													
(D) = (A)	) > (C)					_							
	B) x 100	%	%	%	%	%	%	%	%	%	%	%	9/
(E) ~ (A /	DIXIOU	. •	. •		. •			. •					

(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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Posis for impact avaluations	
Basis for impact evaluation:	
	<del></del>
. 690-09-040 (5) (b) The potential to impair or detriment Rights Section.	tally affect the public interest is to be determined by the Wa
☐ If properly conditioned, the surface water source(s) can be under this permit can be regulated if it is found to substantia i. ☐ The permit should contain condition #(s)	adequately protected from interference, and/or ground water usually interfere with surface water:
ii. The permit should contain special condition(s)	as indicated in "Remarks" below;
SW / GW Remarks and Conditions	
	<del>-</del>
<del></del>	
References Used: <u>Gannett, Marshall W., and Caldwell, Ro</u> Lowland Aquifer System, Oregon and Washington: U. S. Ge	
Conlon and others, 2005, Ground-water hydrology of the Wi	illamette Basin, Oregon: U.S Geological Survey Scientific
Investigations Report 2005-5168.	
Woodward and others, 1998, Hydrogeologic framework of th Washington: U.S. Geological Survey Professional Paper 142-	
Nearby well logs and reviews.	
real by well logs and reviews.	

)1.	Vell #: Logid:
02.	HE WELL does not meet current well construction standards based upon:
	review of the well log;
	field inspection by
	report of CWRE other: (specify)
	Guier. (speeny)
<b>)</b> 3.	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)
<b>)</b> 4.	HE WELL construction deficiency is described as follows:
	<del>-</del>
<b>D</b> 5.	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.   I don't know if it met standards at the time of construction.
D6. [	Route 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.
THIS	CTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
ο <b>7</b> . Γ	Vell construction deficiency has been corrected by the following actions:
_	
	(Enforcement Section Signature)

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Date: May 20, 2013



### Oregon Water Resources Department hydrograph for MARI 308 (4.00S / 1.00W - 5CDC)

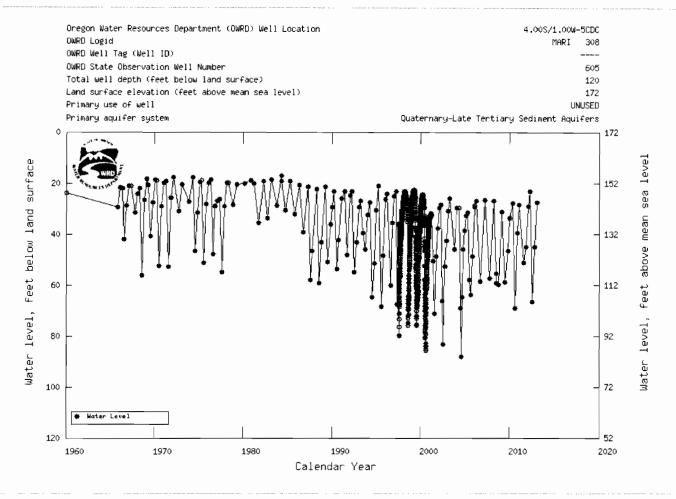


Table showing water-level data for MARI 308

