PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	Water Rights Section						Date	e <u>April 9, 2</u>	2010			
FROM:		Grou	nd Water/I	Hydrology	Section							
SUBJE	CT:	Appli	cation G-	17314			ewer's Name Dersedes rev	view of				
		• •				•				Date of Rev	view(s)	
OAR 69 welfare, to determ	90-310-1 3 safety ar mine whe	30 (1) <i>id heal</i> ether th	The Departs th as descri e presumpt	bed in ORS on is establ	resume tha 537.525. D ished. OAR	<i>t a propose</i> Department 2 690-310-	ed groundwa staff review 140 allows t	ground wat he proposed	ensure the press er applications use be modified icies in place at	under OA d or condi	R 690-31 tioned to	10-140 meet
A. GEN	ERAL IN	NFORM	MATION:	Applicant's	Name:	Divine Ri	se Farms		County: H	arney		
A1.	A1. Applicant(s) seek(s) <u>0.43</u> cfs from <u>1</u> w				rell(s) in th	e <u>Mall</u>	neur Lake				_Basin,	
	S	Silvies 1	River			subb	oasin Qua	ad Map: <u>B</u> ı	urns Butte			
A2. A3.	Propose Well and	d use: d aquif	Irri er data (att	gation, 26 a	ncres mber logs	Seas	onality: g wells; ma	March 1-C	October 31 I wells as such	under lo	gid):	
Well	Logi	id	Applicant'	s Propose	ed Aquifer*	Propose	d	Location		n, metes a		
1	Propo		Well # 1	_	nic seds.	Rate(cfs		/R-S QQ-Q) 29E-1 SE-NE		I, 1200' E i S, 630' W		
2	=											
3 4												
5												
* Alluviu	ım, CRB,	Bedrocl	ζ.									
Well	Well Elev ft msl	First Wates ft bls	r SWL	SWL Date	L)enth		Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	4290	200			300	0-18	0-100	None	None			
Use data	from appl	ication	for proposed	wells.								
A4.	Comme	ents:										
A5. 🛛	manager	ment of		eur Lake ater hydrauli a such provi	cally conne	ected to sur	Basin ru rface water	les relative t	o the developmed are not, activ	ent, classi ated by th	fication a	and/or ation.
A6. 🗌	Name of	f admir	nistrative ar	ea:					er limited by an			triction.
	Comme	iits:										

Version: 08/15/2003

Das	sed 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.	\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):
	senior water rights, not within the capacity of the resource, etc):
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.
	senior water rights, not within the capacity of the resource, etc): ound water availability remarks: East Region Manager Ivan Gall recommends use of condition 7N in this basin.

Application: G- 17314 continued

Date: April 9, 2010

2

Well	SW #		Surface Wa	ater Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydrau Conne YES NO	ected?	Potentia Subst. In Assum YES	terf
1	1	1	Willow	Creek	4100±	4200	1400				
1	2		Sage Her		4100±	4160	4000			ᅢ	
		1	Buge Her	il citti	1200	1100	1000		H I		
								T T	T I		
ased or Vater A	n the d Availab 040 (4)	epth of oility B : Eval	asin the well	ll(s) are loca	k of apparented within:_ for each well	11200202, that has be	vater contri SAGE HEN en determine	CR> SILV	y surface wa ese streams. IES R- AT M d to be hydra	I concur. OUTH ulically	
Vater A On-09-0 onnect nat are j	Availab 040 (4) ed and pertinent the re	cepth of bility B Eval less that to the equested	asin the well uation of str an 1 mile fr at surface well d rate agains	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8	k of apparer ted within: for each well water source and not lower 0% natural f	31200202, that has been Limit evaluated SW source low for the	SAGE HEN en determine uation to ins to which the pertinent Wa	CR> SILVE ed or assumed stream rights be stream und ater Availabil	IES R- AT Med to be hydra and minimum er evaluation lity Basin (WA	I concur. OUTH ulically a stream flois tributar AB). If Q	ow:
Vater A On-09-0 onnect nat are j	Availab 040 (4) ed and pertinent the re	cepth of bility B Eval less that to the equested	asin the well uation of str an 1 mile fr at surface well d rate agains	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well.	k of apparer ted within: for each well water source nd not lower 0% natural f Any checked	31200202, that has been Limit evaluated SW source low for the	SAGE HEN en determine uation to ins to which the pertinent Wa cates the we	ed or assumed stream rights the stream und the Availabil the assumed	IES R- AT Med to be hydra and minimum er evaluation	I concur. IOUTH ulically a stream flois tributar AB). If Q otential to	ow: is t
Vater A On-09-0 onnect nat are j Compare istribut	Availab 040 (4) ed and pertiner e the re ed by v	cepth of billity B D: Eval less that to the equested well, us	asin the well uation of str an 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well.	ted within: for each well water source and not lower 0% natural f Any checked Instream	that has be Limit evalued SW source low for the box indicates.	SAGE HEN en determine tuation to insight to which the pertinent Wa cates the we	ted or assumed tream rights the stream und the Availabil ll is assumed Qw > 1%	IES R- AT Med to be hydra and minimum der evaluation lity Basin (Walton have the p	I concur. IOUTH ulically a stream flois tributar AB). If Q otential to	ow y. is a
Vater A On-09-0 onnect nat are j Compare istribut	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well.	ted within: for each well water source and not lower 0% natural f Any checked Instream Water	31200202, that has been Limit evaluated SW source low for the	SAGE HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural	ed or assumed stream rights the stream und the Availabil ll is assumed Qw > 1% of 80%	d to be hydra and minimum er evaluation lity Basin (WA) to have the p	I concur. IOUTH ulically a stream flois tributar AB). If Q otential to	ow y. is ca
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab 040 (4) ed and pertiner e the re ed by v	cepth of billity B D: Eval less that to the equested well, us	asin the well uation of str uan 1 mile fr at surface w d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well. A Instream Water Right	ted within:_ for each well water source nd not lower 0% natural f Any checked Instream Water Right Q	that has be that has be that has be that has be that evaluation of the that has be that has better	sage HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural Flow	ed or assumed stream rights the stream und the Availabil ll is assumed	IES R- AT Med to be hydra and minimum der evaluation lity Basin (Walton have the p	I concur. IOUTH ulically a stream flois tributary AB). If Q otential to Potential to Interpretation of the property of the	ow y. is ca
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well.	ted within: for each well water source and not lower 0% natural f Any checked Instream Water	that has be that has be that has be that has be that was swellow for the work box indicates a second control of the control of	SAGE HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural	ed or assumed stream rights the stream und the Availabil ll is assumed Qw > 1% of 80%	ity Basin (Walto have the p	I concur. IOUTH ulically a stream flois tributar AB). If Q otential to	ow y. is ca
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well. A Instream Water Right	ted within:_ for each well water source nd not lower 0% natural f Any checked Instream Water Right Q	that has be that has be that has be that has be that was swellow for the work box indicates a second control of the control of	sage HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural Flow	ed or assumed stream rights the stream und the Availabil ll is assumed	ity Basin (Walto have the p	I concur. IOUTH ulically a stream flois tributary AB). If Q otential to Potential to Interpretation of the property of the	ow y. is ca
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well. A Instream Water Right	ted within:_ for each well water source nd not lower 0% natural f Any checked Instream Water Right Q	that has be that has be that has be that has be that was swellow for the work box indicates a second control of the control of	sage HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural Flow	ed or assumed stream rights the stream und the Availabil ll is assumed	ity Basin (Walto have the p	I concur. IOUTH ulically a stream flois tributary AB). If Q otential to Potential to Interpretation of the property of the	ow y. is ca
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well. A Instream Water Right	ted within:_ for each well water source nd not lower 0% natural f Any checked Instream Water Right Q	that has be that has be that has be that has be that was swellow for the work box indicates a second control of the control of	sage HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural Flow	ed or assumed stream rights the stream und the Availabil ll is assumed	ity Basin (Walto have the p	I concur. IOUTH ulically a stream flois tributary AB). If Q otential to Potential to Interpretation of the property of the	ow y. is ca
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well. A Instream Water Right	ted within:_ for each well water source nd not lower 0% natural f Any checked Instream Water Right Q	that has be that has be that has be that has be that was swellow for the work box indicates a second control of the control of	sage HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural Flow	ed or assumed stream rights the stream und the Availabil ll is assumed	ity Basin (Walto have the p	I concur. IOUTH ulically a stream flois tributary AB). If Q otential to Potential to Interpretation of the property of the	ow y. is ca
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well. A Instream Water Right	ted within:_ for each well water source nd not lower 0% natural f Any checked Instream Water Right Q	that has be that has be that has be that has be that was swellow for the work box indicates a second control of the control of	sage HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural Flow	ed or assumed stream rights the stream und the Availabil ll is assumed	ity Basin (Walto have the p	I concur. IOUTH ulically a stream flois tributary AB). If Q otential to Potential to Interpretation of the property of the	ov y. is c
Vater A 00-09-0 onnect nat are j Compard istribut SI.	Availab Availab O40 (4) ed and pertinence the re- ed by v	cepth of billing Billi	asin the well uation of str nan 1 mile fr at surface well d rate agains e full rate fo	ll(s) are loca ream impacts rom a surface ater source, a at the 1% of 8 or each well. A Instream Water Right	ted within:_ for each well water source nd not lower 0% natural f Any checked Instream Water Right Q	that has be that has be that has be that has be that was swellow for the work box indicates a second control of the control of	sage HEN en determine tuation to ins to which the pertinent Wa cates the we 80% Natural Flow	ed or assumed stream rights the stream und the Availabil ll is assumed	ity Basin (Walto have the p	I concur. IOUTH ulically a stream flois tributary AB). If Q otential to Potential to Interpretation of the property of the	ow y. is ca

Basis for aquifer confinement evaluation: The static water level will likely be above the level where water was first

Date: April 9, 2010

Confined

3

Unconfined

Version: 08/15/2003

Application: G- 17314 continued

found, based on local well logs.

Well

1

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

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

Aquifer or Proposed Aquifer

Volcanic, pyroclastic and sedimentary rocks (Tvs)

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.

	 	1 -						
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.

	stributed V		г.			3.6	т.	т 1		C	0.4	NT.	ъ
Well	SW#	Jan %	Feb	Mar %	Apr	May %	Jun %	Jul %	Aug %	Sep %	Oct	Nov %	Dec %
*** 11.0	222	%0	%0	%	%0	%0	%0	% 0	%0	%0	%0	%0	% 0
Well Q													
Interfere	ence CFS												
Distrib	uted Wells												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
(A) = To	tal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) = (A	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.

Basis for impact evaluation:

690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the W Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water:	olication: G- 17314 continued	Date: <u>April 9, 2010</u>
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.	· 	
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water:		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.	-	
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.	_	
Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground wate under this permit can be regulated if it is found to substantially interfere with surface water: i.		
under this permit can be regulated if it is found to substantially interfere with surface water: i.		or detrimentally affect the public interest is to be determined by the W
under this permit can be regulated if it is found to substantially interfere with surface water: i.		
ii. The permit should contain special condition(s) as indicated in "Remarks" below; SW/GW Remarks and Conditions: SW/GW	under this permit can be regulated if it is foun	nd to substantially interfere with surface water:
SW / GW Remarks and Conditions:	ii. The permit should contain specia	al condition(s) as indicated in "Remarks" below;
References Used: Recent application reviews, especially G-17100; local well logs; GW Report # 16; WSP #841; regio		
References Used: Recent application reviews, especially G-17100; local well logs; GW Report # 16; WSP #841; regio		
	SW / GW Remarks and Conditions:	
	References Used: Recent annlication reviews	especially G-17100: local well logs: GW Report # 16: WSP #841: region
Ecologic maps, Ivan Gan memo, 1/15/2000, Stream Assessment for Division 7 Review in the Manieur Lakes Dasin.		
	geologie maps, 1van Gan memu, 1/15/2008, Str	cam assessment for Division 7 Review in the Wallieur Lakes Dasin.

D1.	Well #:	Logid:
D2.		VELL does not meet current well construction standards based upon:
	a. ∐ h □	review of the well log; field inspection by
	c. \square	report of CWRE
	d. 🗌	other: (specify)
D3.	THE V	VELL construction deficiency:
	a. 🔲	constitutes a health threat under Division 200 rules;
	b. 🔲	commingles water from more than one ground water reservoir;
	c.	permits the loss of artesian head;
	d.	permits the de-watering of one or more ground water reservoirs; other: (specify)
D4.	THE V	VELL construction deficiency is described as follows:
D5.	THE V	WELL a. □ was , <i>or</i> □ 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.		to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction with the Department and approved by the Enforcement Section and the Ground Water Section.
THI	S SECTIO	ON TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7.	☐ Well co	onstruction deficiency has been corrected by the following actions:
		(Enforcement Section Signature)
		(Enforcement Section Signature)
D8.	☐ Route	to Water Rights Section (attach well reconstruction logs to this page).

Application: G- 17314 continued

Date: April 9, 2010

6