Water Right Conditions Tracking Slip Groundwater/Hydrology Section

, •
FILE # # 6 - 17772
ROUTED TO: Water Rights
TOWNSHIP!
RANGE-SECTION: 65/2W-28
CONDITIONS ATTACHED?: [4] yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: Karl Wasniak

WATER RESOURCES DEPARTMENT

MEN	10							June	23	,	201
	•						:				
TO:		Appli	ication	G- <u>17</u>	772						
FRO	M:	GW:		1	Wozn	in K					
SUB	JECT:					nce Eva	aluation	1 1			
	7/Dd										
	_YES	The so	ource of	approp	riation	s withir	ı or abo	ve a Sce	enic Wa	terway	
_	_NO		•					•			
-	_YES	Use th	ne Sceni	c Water	way co:	ndition ((Condit	ion 7J)			
	_NO										
	interfe	rence v	-	ace wat	er that o	Section contribu below.					
·	interfe the Do that th	erence w epartm he prop	vith surf ent is un osed us	ace wat nable to e will n	er that o find th neasura	Section ontributat ther bly red ving cha	tes to a e is a pr uce the	scenic v repond surface	vaterwa e <mark>rance</mark> e water	y; there of evide flows	efore, ence
Calcula calcula	RIBUTI ate the per ted, per c ng Water	rcentage riteria in	of corisur 390.835,	nptive use do not fi	e by mont Il in the to	able but c	heck the	"unable"	option a	bove, thu	S
	se of th	-					-				Scenic
	way by surface		_		express	ed as a p	proporti	on of th	e consu	mptive	use by
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

	" aic	er Rights S	ection				Date	e06/	<u>23/20</u>	14		
	Grou	nd Water/	Hydrology	Section								
CT:	Appl	ication G-	17772							Date of Re	view(s)	· · · · · ·
0-310-13 safety ar nine whe imption o	30 (1) ad head ther the	The Depart lth as descr te presumpt to This review	ment shall p ibed in ORS ion is establi ew is based	resume that 537.525. D shed. OAR upon avail	a propose epartment 690-310-1 able infor	ed ground staff revi 140 allows mation a	ew ground wate s the proposed a nd agency poli	er applica use be mo cies in pl	e prese tions u odified ace at	ervation of inder OA or condi the time	of the pub R 690-31 tioned to of evalu	0-140 meet ation.
Applica	nt(s) se	eek(s) <u>0.0</u>	35 cfs from	n <u>1</u>	well(s) in the _	Willamette					
Little Pudding River subbasin Quad Map: Gervais Proposed use Irrigation Seasonality: March 1 – October 31 Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):												
_		Applicant Well #	Proposi		Rate	(cfs)	(T/R-S QQ-	-Q)	2250	N, 1200'	E fr NW	or S 36
m, CRB,	Bedroc	k							·			
Well Elev ft msl 148	Wate	r SWL	SWL Date 04/19/1960	Well Depth (ft) 130	Seal Interval (ft) 0-30	Casing Intervals (ft) 0-128	Liner Intervals (ft)	Or Scre	eens	Well Yield (gpm) 300	Draw Down (ft) 97	Test Type
from anni	ication	for proposed	l wells									
Comme	nts: <u>1</u>	The applicar	nt seeks 0.03					_	_			l as the
managei (Not all	ment o basin i nts: <u>Tl</u>	f ground wa rules contai he well prod	ater hydraulion such provisuluces from a	cally connections.)	cted to sur	face water	nt rules (OAR	are not	, activa 0240) (ted by the	is applica	ation.
Name of	f admii	nistrative ar	ea:,		,	,	tap(s) an aquif	er limited	by an	administ	rative res	triction.
C C C C C C C C C C C C C C C C C C C	C INTE 0-310-13 safety arraine whe imption of IERAL Applicate Propose Well and Logid MARI 44 MARI 44 The same of	C INTERES 0-310-130 (1) safety and headine whether the imption criterial IERAL INFO Applicant(s) so Little P Proposed use_Well and aquit Logid MARI 4491 m, CRB, Bedroc Well First Elev Wate ft msl ft bls 148 Frowisions of management of (Not all basin of Comments: The comments of	C INTEREST PRESU 0-310-130 (1) The Depart safety and health as descraine whether the presumpt imption criteria. This review IERAL INFORMATION Applicant(s) seek(s)	CINTEREST PRESUMPTION; 0-310-130 (1) The Department shall posafety and health as described in ORS nine whether the presumption is establic imption criteria. This review is based in the proposed with the proposed wells. Applicant(s) seek(s)0.035cfs fromLittle Pudding River Proposed use Irrigation Well and aquifer data (attach and number data) Applicant's Proposed well # Applicant's Proposed well # Applicant's Proposed well # Applicant's Proposed well #	CINTEREST PRESUMPTION; GROUNI 0-310-130 (1) The Department shall presume that safety and health as described in ORS 537.525. Daine whether the presumption is established. OAR imption criteria. This review is based upon available to the proposed use and proposed use and proposed use and proposed use and proposed Applicant's well and aquifer data (attach and number logs for MARI 4491 and Applicant's well and applicant seeks well and application for proposed wells. The applicant seeks 0.035 cfs from a source on certificate 30619. Provisions of the Willamette management of ground water hydraulically connect (Not all basin rules contain such provisions.) Comments: The well produces from a confined action of the well produces from a confined action wells.	CINTEREST PRESUMPTION; GROUNDWATE 0-310-130 (1) The Department shall presume that a propose safety and health as described in ORS 537.525. Department into whether the presumption is established. OAR 690-310-imption criteria. This review is based upon available information in the importance of the management of ground water hydraulically connected to sur (Not all basin rules contain such provisions.) Comments: The well produces from a confined aquifer so t Well(s) #	CINTEREST PRESUMPTION; GROUNDWATER 0-310-130 (1) The Department shall presume that a proposed ground safety and health as described in ORS 537.525. Department staff revinine whether the presumption is established. OAR 690-310-140 allows imption criteria. This review is based upon available information at IERAL INFORMATION: Applicant's Name: Bennett F. Applicant(s) seek(s) 0.035 cfs from 1 well(s) in the Little Pudding River subbasin C. Proposed use Irrigation Seasonality: Well and aquifer data (attach and number logs for existing wells; not the proposed well of the proposed Aquifer* Proposed Rate(cfs) MARI 4491 Proposed Rate(cfs) Mari 4491 Proposed Aquifer* Proposed Rate(cfs) Mari 4491 Proposed Rate(cfs) Mari 4491 Proposed Aquifer* Proposed Rate(cfs) Mari 4491 Proposed Rate	CI: Application G- 17772 Supersedes review of Super	CINTEREST PRESUMPTION; GROUNDWATER 0-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the safety and health as described in ORS 537.525. Department staff review ground water application whether the presumption is established. OAR 690-310-140 allows the proposed use be memption criteria. This review is based upon available information and agency policies in place. Applicant(s) seek(s) 0.035 cfs from 1 well(s) in the Willamette Little Pudding River subbasin Quad Map: Gervais Well and aquifer data (attach and number logs for existing wells; mark proposed wells as Logid Applicant's Proposed Aquifer* Ratec(fs) (T/R.S QQ-Q) MARI 4491 Alluvium 0.035 68/2W-28 SW/NW MARI 4491 Alluvium 0.035 68/2W-28 SW/NW Mark ft bls Date (ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft)	CINTEREST PRESUMPTION; GROUNDWATER 0-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the pressafety and health as described in ORS 537-525. Department staff review ground water applications usine 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 at iteral intervals. The proposed use be modified imption criteria. This review is based upon available information and agency policies in place at iteral intervals. 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Department staff review ground water applications under OAR 690-31 nine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to mption criteria. This review is based upon available information and agency policies in place at the time of evalustic proposed use be modified or conditioned to reputation of the published. OAR 690-310-140 allows the proposed use be modified or conditioned to reputation and agency policies in place at the time of evalustic place place at the time of evalustic place place place place at the time of evalustic place pla

Version: 08/15/2003

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

a.		
	is over appropriated, ⊠ is not over appropriated, or □ cannot be determined to be period of the proposed use. * This finding is limited to the ground water portion of the determination as prescribed in OAR 690-310-130;	
b.	will not or will likely be available in the amounts requested without injury to prior is limited to the ground water portion of the injury determination as prescribed in OA	
c.	will not or will likely to be available within the capacity of the ground water res	ource; or
d.	will, if properly conditioned, avoid injury to existing ground water rights or to the i. The permit should contain condition #(s) <u>7e</u> 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;	
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;
: .	Condition to allow ground water production only from the water reservoir between approximately ft. and ft. below lar	ground
	water reservoir between approximately ft. and ft. below lar	nd surface;
	Describe injury -as related to water availability- that is likely to occur without well re	
	senior water rights, not within the capacity of the resource, etc):	
60 fe prop on co in the		area and is overlain by about 40- a yield from 100-700 gpm. The atted maximum rate of 0.48 cfs action well density is moderate try to existing rights. Water
60 fe prop on co in the	senior water rights, not within the capacity of the resource, etc): und water availability remarks: The Willamette aquifer is about 160 feet thick in the aget of Willamette Silt which is saturated at depths of 5-15 feet. Irrigation wells in the area bosed well was capable of producing 300 gpm when it was drilled in 1960 and has a permiertificate 30619. The new use should be well within the existing capacity of the well. Irrigate area but the thickness of the aquifer and the low proposed rate should preclude any injuries in nearby alluvial aquifer wells (see plot) look reasonably stable. No progressive decline	area and is overlain by about 40- a yield from 100-700 gpm. The atted maximum rate of 0.48 cfs action well density is moderate try to existing rights. Water
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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	

Basis for aquifer confinement evaluation: Well logs of nearby wells show static water levels that are above the top of the aquifer. This is consistent with general knowledge of the area which indicates that the aquifer is confined by the overlying Willamette Silt.

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	Little Pudding River	140	145	2950		
					-		

Basis for aquifer hydraulic connection evaluation: Published water table maps show that groundwater flows toward, and discharges into, the Little Pudding River. However, the Little Pudding River does not fully penetrate the Willamette Silt so the efficiency of the connection will be fairly low because of the low vertical permeability of the Silt.

Water Availability Basin the well(s) are located within: PUDDING R> MOLALLA R- AB MILL CR (151)

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?
1	1			IS73532B	36		67.3		<<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 #	minutions	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: A significant thickness of Willamette Silt (low permeability) between the steam and the aquifer should result in much less 25% interference @ 30 days of pumping.

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		r.	16	A	M	T	Y1	A	C	Oat	Non	Dag
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
Distrib	uted Well	e									······································		
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well O	as CFS												
	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	as CFS												
Interfere	ence CFS												
(A) - To	tal Interf.									· · · · ·			
	% Nat. Q												
(C) = 1	% Nat. Q		L			<u> </u>		L					
(D) = ((A) > (C)	4				,							
$(\mathbf{E}) = (\mathbf{A})$	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

Basis for imp					
690-09-040 Rights S		to impair or detriment	ally affect the public i	nterest is to be determined	by the Wa
under this	conditioned , the surfacermit can be regulated i	f it is found to substantia	adequately protected fr	om interference, and/or grou e water:	ınd water u
i 🗀	The permit should cont	ain condition #(s)	•		
i. 🔲 ii. 🗍	The permit should cont The permit should cont	ain condition #(s)_ ain special condition(s) a	as indicated in "Remark	s" below;	
i. 🗍 ii. 🗍	The permit should cont The permit should cont	ain condition #(s)ain special condition(s) a	as indicated in "Remark	s" below;	
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ii. W/GW Rem References Use Conlon, T.D., V	The permit should contacts and Conditions	k, D., Herrera, N.B., Fis	her, B.J., Morgan, D.S.	Lee, K.K., and Hinkle, S.R.	
ii. W/GW Rem References Use Conlon, T.D., V	The permit should contacts and Conditions	k, D., Herrera, N.B., Fis	her, B.J., Morgan, D.S.		
eferences Use onlon, T.D., Voround-water hannett, M.W.	The permit should contacts and Conditions	k, D., Herrera, N.B., Fis tte Basin, Oregon: U.S.	her, B.J., Morgan, D.S. Geological Survey Scien	Lee, K.K., and Hinkle, S.R.	2005-5168

Application G-17772

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Date: 06/23/2014

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Date: 06/23/2014

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D. WELL CONSTRUCTION, OAR 690-200

D1.	,	Well #:	Logid:	
D2.	1	a.	/ELL does not meet current well construction standards based upon: review of the well log; field inspection by	;
D3.	1	a.		
D4.		THE W	VELL construction deficiency is described as follows:	
D5. D6.			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. to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well recons with the Department and approved by the Enforcement Section and the Ground Water Section.	struction
	-		ON TO BE COMPLETED BY ENFORCEMENT PERSONNEL onstruction deficiency has been corrected by the following actions:	
D8.		Route	(Enforcement Section Signature) to Water Rights Section (attach well reconstruction logs to this page).	200

Water Availability Tables

PUDDING R > MOLALLA R - AB MILL CR WILLAMETTE BASIN

Water Availability as of 6/19/2014

Watershed ID #: 151 (Map)

Exceedance Level:

Date: 6/19/2014

Time: 5:22 PM

Water Availability Calculation

Monthly Streamflow in Cubic Feet per Second Annual Volume at 50% Exceedance in Acre-Feet

Mont h	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	1,040.00	125.00	915.00	0.00	36.00	879.00
FEB	1,180.00	115.00	1,070.00	0.00	36.00	1,030.00
MAR	1,010.00	79.90	930.00	0.00	36.00	894.00
APR	787.00	55.70	731.00	0.00	36.00	695.00
MAY	425.00	52.70	372.00	0.00	36.00	336.00
JUN	224.00	72.90	151.00	0.00	36.00	115.00
JUL	109.00	113.00	-4.04	0.00	36.00	-40.00
AUG	71.00	93.30	-22.30	0.00	36.00	-58.30
SEP	67.30	54.50	12.80	0.00	36.00	-23.20
OCT	91.60	14.00	77.60	0.00	36.00	41.60
NOV	363.00	48.60	314.00	0.00	36.00	278.00
DEC	957.00	119.00	838.00	0.00	36.00	802.00
ANN	706,000.00	56,900.00	649,000.00	0.00	26,100.00	625,000.00

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