Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE # # G - 17616
ROUTED TO: Water Rights
TOWNSHIP/ RANGE-SECTION: 35/1E-31
CONDITIONS ATTACHED?: [1] yes [] no
remarks or further instructions: <u>see conditions on p 2.</u>
Reviewer: J. Hackett

WATER RESOURCES DEPARTMENT

MEN	10							Apr	1 2	3,	20ø <u>/</u> 3
TO: FRO SUB,	M: JECT:	GW:	f. † G. Wate	lackett leviewer's		nce Ev	aluatior	1			
	_YES _NO	The so	ource of	approp	riation i	is withir	ı or abo	ve a Sce	enic Wa	terway	
	_YES _NO	Use th	ie Sceni	c Water	way co	ndition ((Conditi	ion 7J)			
	Per Ol interfe the De	erence wated into	vith surferferences 835, the vith surferent is unosed us	ace wat e is dist Ground ace wat nable to e will n	d Water er that or ibuted d Water er that confind the neasurance-flow	sontribu below. Section contributant ther bly red	tes to a is unal tes to a e is a pu	Scenic V ble to ca scenic v reponde surface	Waterwalculate vaterwalerance (e water	ground y; there of evide flows	water
Calcula calcula informi Exerci Water	te the per ted, per c ng Water se of th way by	rcentage riteria in Rights th is permi	390.835, at the De t is calc wing an	iptive use do not fit partment ulated t nounts	CE by mont il in the to is unable o reduce	able but c to make e month	heck the a Prepon lly flows	"unable" derance s in	option a of Eviden	bove, thus ce finding	s g. Scenic
Vinion Ian	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	ection				Date	<u>Apr</u>	il 23,	2013		
FROM:		Grou	nd Water/l	Hydrology	Section	J. Hacl	kett						
						D							
SUBJE	CT:	Appl	ication G-	17616		Sup	persedes r	eview of					
										i	Date of Rev	view(s)	
OAR 69 welfare, to determ	00-310-1 safety at nine whe	30 (1) nd heal ether th	The Depart th as descri e presumpti	<i>ibed in ORS</i> ion is establi	resume that 537.525. D shed. OAR	a propose epartment 690-310-1	ed ground staff revie 140 allows	water use will on the ground water the proposed of the ground agency policy	er applicat use be mod	ions u dified	nder OA	R 690-31 tioned to	0-140 meet
A. <u>GEN</u>	<u>VERAL</u>	INFO	<u>PRMATIC</u>	<u>DN</u> : Ap	oplicant's N	ame:	James & S	Sandra Gurne	<u>ey</u>	_ c	ounty:	Clackan	1as
A1.	Applica	nt(s) se	eek(s) <u>0.3:</u>	5 cfs from	n <u>1</u>			Willamette					_ Basin,
						subba	asın Q	uad Map: <u>Ca</u>	anby				
A2. A3.								March 1 – 0 ark proposed			nder log	rid):	
Well	Logid Applicant's Well #		Propos	ed Aquifer*	Proposed Rate(cfs)		Location (T/R-S QQ-	-Q)	Location, metes and bounds, 2250' N, 1200' E fr NW cor S				
2	CLAC 11	979	1	Al	luvium	0.3	35	3S/1E-31 SE	-SE		NONE	GIVEN**	
3													
5													
* Alluviu	m, CRB,	Bedroc	k							_			
	Well	First			Well	Seal	Casing	Liner	Perforati	ons	Well	Draw	
Well	Elev	Water	1 5 1 1	SWL Date	Depth	Interval	Intervals		Or Scree		Yield	Down	Test Type
1	ft msl	ft bls	22	8/9/1985	(ft) 190***	(ft) 0-26	(ft) 0-140	(ft)	(ft) 92-100		(gpm) 80	(ft) 2	P
1	91	10		6/9/1965	190	0-20	0-140		72-100		80		
Lise data	from ann	lication	for proposed	wells								_	
Osc data	• • •												
A4.				ion of well ped to 143 fee				725° N. and -1					
A5. 🛛	manage	ment o		nette ater hydrauli n such provi	cally conne	cted to sur	Basin	rules relative t	o the deve	lopme activa	ent, classited by the	ification a	and/or ation.
	Comme	nts: <u>T</u>	he applicant	<u>t's well is no</u>	t located w			earest surface			-		n rules
A6. □	Name of	of admi	nistrative ar	ea:				tap(s) an aquif				rative res	triction.

Version: 08/15/2003

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

31.	Bas	ed 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.	☐ 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) 7B, 7C 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;
2.	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 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):
•	Pude	und water availability remarks: The applicant's well is located in an area that contains floodplain sediments from the ding and Molalla Rivers from land surface to a depth of approximately 20 feet. A sequence of mostly fine-grained alluvial ments containing thin sand and gravel beds underlies the floodplain sediments to a depth of approximately 600 feet.
	_	
	_	

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		

Basis for aquifer confinement evaluation: Water-bearing zones in the applicant's well are overlain by thick clay beds that act as confining layers.

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	Pudding River	70	70-80	3100		
1	2	Molalla River	70	70-80	3200		

Basis for aquifer hydraulic connection evaluation:	Water levels in the alluvial aquifer are coincident with the elevation of
local streams. This suggests a hydraulic connection be	

Water Availability Basin the well(s) are located within: 69998: PUDDING R > MOLALLA R - AT MOUTH; 69796: MOLALLA R > WILLAMETTE R - AT MOUTH

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 < ½ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw> I% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
1	1			IS69998A	40.00		67.90		<25%	
1	2			IS69796A	100.00		134.00		<25%	

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?

Comments: Pumping impacts are likely to be <25% of the pumping rate after 30 days of pumping due to fine-grained sediments found in the channels of the Pudding and Molalla Rivers.	

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.

	istributed												
Well	SW#	<u>Jan</u>	<u>F</u> eb	Mar	Apr	May	Jun	<u>Ju</u> l	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well (as CFS												
Interfer	ence CFS												
	uted Well		г.1	N/	A	14	,	7 1	A	0	0	N T	D
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	000	<u>%</u>	%	<u>%</u>	%	<u>%</u>	%	%	%	%	<u>%</u>	%	%
	Q as CFS												
Interfer	ence CFS												
		%	<u>%</u>	<u>%</u>	%_	%_	%	%_	%	%	<u>%</u>	%	%
	Q as CFS												
Interfer	ence CFS												
		%	%_	%	%	%	<u>%</u>		%	%	%	%	%
	Q as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (Q as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well (as CFS												
Interfer	ence CFS												
(A) - T	-t-LI-tC												
	otal Interf.												
	% Nat. Q												
(C) = 1	% Nat. Q												
(D) =	(A) > (C)	V	V.	V	300	N/	V	v.	N.	V	V	V	V
(E) = (A	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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D. WELL CONSTRUCTION, OAR 690-200

D1.	Well#	#: Logid:	
D2.	a.	WELL does not meet current well construction standards based upon: review of the well log; field inspection by report of CWRE other: (specify)	
D3.	a. b. c. d.	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)	
D4.	THE V	WELL construction deficiency is described as follows:	
D5. D6.	☐ Route	 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. e to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction and the Department and approved by the Enforcement Section and the Ground Water Section. 	truction
		Construction deficiency has been corrected by the following actions:	
D8.	Route	(Enforcement Section Signature) e to Water Rights Section (attach well reconstruction logs to this page).	200

Application G-17616

Date: 04/23/2013

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Water Availability Tables

PUDDING R > MOLALLA R - AT MOUTH WILLAMETTE BASIN

Water Availability as of 4/23/2013

Watershed ID #: 69998

Exceedance Level:

30%

Date: 4/23/2013

Time: 1:28 PM

dentilly	Streamflow in Cu	Die Feet par Second										
numal Volume at 50% Exceedance in Acre-Feet												
Mont	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flaw	Instroam Flow Requirement	Not Woter Available						
JAN	1,120.00	77.90	1,040.00	0.00	80.00	962.00						
FEB	1,260.00	76.10	1,180.00	0.00	80.00	1,100.00						
MAR	1,080.00	58.20	1,020.00	0.00	80.00	942.00						
APR	834.00	51.10	783.00	0.00	80.00	703.00						
MAY	448.00	60.90	387.00	0.00	80.00	307.00						
JUN	231.00	83.00	148.00	0.00	60.00	88.00						
JUL	111.00	128.00	-16.70	0.00	50.00	-66.70						
AUG	71.60	105.00	-33.90	0.00	40.00	-73.90						
SEP	67.90	61.90	6.03	0.00	40.00	-34.00						
OCT	91.50	17.20	74.30	0.00	60.00	14.30						
NOV	364.00	45.00	319.00	0.00	80.00	239.00						
DEC	1,010.00	77.40	933.00	0.00	80.00	853.00						
ANN	748,000.00	50,900.00	698,000.00	0.00	48,900.00	654,000.00						

Detailed Report of Instream Flow Requirements

Instream Flow Requirements in Cubic Feet per Second

Application #	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
IS69998A	CERTIFICATE	80.00	80.00	80.00	80.00	80.00	60.00	50.00	40.00	40.00	60.00	80.00	80.00
IS73532A	CERTIFICATE	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
Maximum		80.00	80.00	80.00	80.00	80.00	60.00	50.00	40.00	40.00	60.00	80.00	80.00

MOLALLA R > WILLAMETTE R - AT MOUTH WILLAMETTE BASIN

Water Availability as of 4/23/2013

Watershed ID #: 69796

Date: 4/23/2013

Exceedance Level:

80% 🔻

Time: 1:44 PM

Water Availability Calculation

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

Mont	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Requirement	Not Water Available
JAN	1,870.00	102.00	1,770.00	0.00	500.00	1,270.00
FEB	2,010.00	100.00	1,910.00	0.00	500.00	1,410.00
MAR	1,830.00	82.90	1,750.00	0.00	500.00	1,250.00
APR	1,530.00	75.90	1,450.00	0.00	500.00	954.00
MAY	927.00	99.70	827.00	0.00	500.00	327.00
JUN	431.00	120.00	311.00	0.00	500.00	-189.00
JUL	204.00	183.00	20.50	0.00	200.00	-179.00
AUG	139.00	155.00	-15.80	0.00	100.00	-116.00
SEP	134.00	83.80	50.20	0.00	150.00	-99.80
OCT	188.00	42.10	146.00	0.00	450.00	-304.00
NOV	637.00	70.00	567.00	0.00	500.00	67.00
DEC	1,700.00	103.00	1,600.00	0.00	500.00	1,100.00
ANN	1,320,000.00	73,600.00	1,250,000.00	0.00	295,000.00	978,000.00

Detailed Report of Instream Flow Requirements

Instream Flow Requirements in Cubic Feet per Second

Application #	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
IS69796A	CERTIFICATE	500.00	500.00	500.00	500.00	500.00	500.00	200.00	100.00	150.00	450.00	500.00	500.00
Maximum	LANCE STREET	500.00	500.00	500.00	500.00	500.00	500.00	200.00	100.00	150.00	450.00	500.00	500.00

Well Location Map

