Water Right Conditions Tracking Slip	
Groundwater/Hydrology Section FILE # # <u>G-17802</u> ROUTED TO: <u>Water Rights - Mary</u> TOWNSHIP/ RANGE-SECTION: <u>85/40E-15,16,21</u> CONDITIONS ATTACHED?: [Yyes [] no REMARKS OR FURTHER INSTRUCTIONS:	
Reviewer: Mike Zwart	

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WATER RESOURCES DEPARTMENT

MEMO

April 9 ,20 14

TO: Application G-<u>17802</u>

FROM: GW: Mike Zwart (Reviewer's Name)

SUBJECT: Scenic Waterway Interference Evaluation

- YES
 The source of appropriation is within or above a Scenic Waterway
 NO
- ☐ YES
 Use the Scenic Waterway condition (Condition 7J)
 NO
- Per ORS 390.835, the Groundwater Section is **able** to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below.
- Per ORS 390.835, the Groundwater Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway.

DISTRIBUTION OF INTERFERENCE

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in ______ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

F	PUBL	IC INTI	ERES	ST REVIE	W FOR C	ROUND	WATER	APPLI	CATIONS					
]	ГO:		Wate	er Rights S	ection				Date	e <u>Ap</u>	<u>ril 9,</u>	2014	· · · · · · · · · · · · · · · ·	
F	FROM	:	Grou	Indwater S	ection									
,					15000		Reviewer's Name Supersedes review of							
2	SUBJE	CT:	Appl	lication G-	17802		Su	persedes	review of			Date of Re	view(s)	
												Duit of he		
С и ti ti	DAR 69 <i>velfare</i> , o detern he press	90-310-13 safety ar mine whe umption (30 (1) <i>nd hea</i> ether th criteria	<i>Ith as descri</i> ne presumpt	<i>ment shall p ibed in ORS</i> ion is establ e w is based	resume that 537.525. D ished. OAR	a proposi epartment 690-310- able infor	ed ground staff revie 140 allow mation a	water use will over the water use will over the ground water states the proposed and agency politication of the states of the st	er applica use be mo	tions u odified ace at	under OA l or condi	R 690-3	10-140 meet
					.	a								
A	A 1.	Applica	nt(s) s	eek(s) <u>4.5</u>	<u>85</u> cfs from	m <u>tive</u>	well((s) in the $_$	Powder					_ Basin,
							subb	asin (Quad Map: <u>B</u>	<u>aker Cit</u>	y/Ma	<u>gpie Pea</u>	ak	
		D		T	·	E 1	G		Manah 14	ha Oatab	an 71			
	42. 43.	Propose Well and			<u>igation, 27</u> ach and nu		or existin	g wells: n	March 1 (nark proposed	wells as	such i	under log	zid):	
_	<u></u>		u uqui											nda a a
ł	Well	Logid		Applicant's Well # Proposed Aquifer*		Prop Rate			Location (T/R-S QQ-Q)		Location, metes and bounds, e.g 2250' N, 1200' E fr NW cor S 30			
	i	Propos		1		luvium	4.5	85	8S/40E-16 S	E-SE	50'	N, 150' V	fr SE co	or S 16
	2	Propos		2		luvium		4.585 8S/40E-16 S 4.585 8S/40E-16 N			85' N, 1100' W fr SE cor S 16			
	3 4	Propose Propose		<u>3</u> 4		luvium luvium	4.5			8S/40E-16 NE-SE 8S/40E-21 NE-NE		2615' N, 230' W fr SE cor S 16 120' S, 80' W fr SE cor S 16		
	5	Propos		5		luvium	4.5					5215' N, 80' E fr SE cor S 16		
*	Alluviu	ım, CRB,		:k										
Г		Well	First			Well	Seal	Casing	Liner	Perforat	ions	Well	Draw	
I	Well	Elev	Wate	I SWL I	SWL Date	Depth	Interval	Intervals		Or Scre	eens	Yield	Down	Test Type
ŀ		ft msl	ft bls	8	Date	(ft)	(ft)	(ft)	(ft)	(ft)		(gpm)	(ft)	Type
\mathbf{F}	1 2	<u>3348</u> 3349		5± 5±		400± 400±	0-18 0-18	0-400		200-4				
F	3	3345		5±		400±	0-18	0-400		200-4				
┢	4	3348 3342		5± 5±		400±	0-18 0-18	0-400		200-4				
ŀ		3344		51		4001	0-10	0-400		200-4				
	Jse data A4.	Comme	nts: <u>S</u>	for proposed Several nea l very simil	rby well log	<u>s were cite</u> proposed w	d as exan ells here.	nples. BA	KE 52230 is r	eportedly	owne	ed by the	applica	nt and
			<u></u>	1.014-1.		<u> </u>								
A			one of	f the Powde	r		ated to su	Basin	rules relative to	o the dev	elopm	ent, classi	ification a	and/or ation.
	A5. 🛛	manager (Not all	ment o basin	of ground wa rules contai	n such prov	isions.)							ns appric	
	45. 🛛	manager (Not all	ment o basin	of ground wa rules contai	n such prov	isions.)								
A	_	Well(s)	ment o basin nts: # f admi	of ground wa rules contai	n such prov	isions.)	,			er limited	by an	administ	rative res	triction.

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Page

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

- B1. Based upon available data, I have determined that ground water* for the proposed use:
 - a. is over appropriated, is not over appropriated, or annot 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) 7N
 - ii. \Box 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;

B2. 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):

B3. Ground water availability remarks: <u>There are no current State Observation Wells nearby</u>, but water levels were reasonably stable at the wells developing alluvium during their periods of record.

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
All	Interbedded sand, gravel and clay (Qal)		\boxtimes

Basis for aquifer confinement evaluation: <u>Based on the local well logs and the proposed seal depth</u>, the targeted aquifer is unconfined to poorly semiconfined. I believe that most local surface water sources, including Highway 203 Pond, reflect the head in the alluvial aquifer. BAKE 52230 reports a very shallow perched water table, but the head reportedly did not change below a depth of 27 feet.

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	Powder River	3340±	3338	5550		
2	1	Powder River	3340±	3338	4650		
3	1	Powder River	3340±	3337	5250		
4	1	Powder River	3340±	3338	5700		
5	1	Powder River	3340±	3336	6150		
1	2	Baldock Slough	3340±	3349	6800		
2	2	Baldock Slough	3340±	3350	7700		
3	2	Baldock Slough	3340±	3337	4700		
4	2	Baldock Slough	3340±	3349	6700		
5	2	Baldock Slough	3340±	3336	2600		

Basis for aquifer hydraulic connection evaluation: <u>The head relationship and shallow water-bearing zones reported in</u> local wells suggest an efficient hydraulic connection.

Water Availability Basin the well(s) are located within: <u>Powder R > Snake R ab Rock Cr (30920327)</u>; <u>Baldock Sl ></u> Powder R at mouth (30920330).

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 < ¼ 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?
2	1						12.6		<25%	\boxtimes
3	1						12.6	\boxtimes	<25%	\square
3	2						0.06	\boxtimes	<25%	\boxtimes
5	2						0.06	\boxtimes	<25%	\boxtimes

3

4

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: <u>Proposed wells 2, 3 and 5 are less than one mile from Baldock Slough and/or the Powder River. Natural flows in both these surface water sources are low during the later part of the irrigation season.</u>

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.

Non-Dis	stributed	Wells	<u></u>										
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	9
Well Q													
Interfere	nce CFS			-									
			200 - 1960 C							and the second second	1006.04	24 A.	
Well	ited Well SW#	s Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	, %	%	%	%	%	%	%	%	%	%	%
Well O	as CFS												
	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	9
Well Q	as CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	nce CFS			Man International Contractor								a sector and the sector of the	
(A) = Tot	tal Interf.					THE REAL PROPERTY AND	and the local Chief		and the second				anna ann Choirle A
(B) = 80	% Nat. Q												
(C) = 1 9	% Nat. Q												
(D) = (4	A) > (C)		1	✓	• 🗸	✓	1	4	1	4	✓		
	B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

690-09-040 (5) (b) Rights Section.	The potential to impair or detrimentally affect the public interest is to be determined by the W
under this permit ca	oned, the surface water source(s) can be adequately protected from interference, and/or ground water on be regulated if it is found to substantially interfere with surface water: rmit should contain condition #(s)
ii. 🔲 The per	mit should contain special condition(s) as indicated in "Remarks" below;
W / GW Remarks and	d Conditions
<u></u>	
	al well logs; local recent reviews; regional geologic mapping, especially GMS-7, Geology of the ker 1 x 2 Quadrangle, 1976.

D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	Logid:
D2.	 a. review of the well log; b. field inspection by c. report of CWRE 	current well construction standards based upon:
D3.	THE WELL construction deficiency o	or other comment is described as follows:
D4.	Route to the Well Construction and	Compliance Section for a review of existing well construction.

Water Availability Tables

6

WATER SUPPLY WELL REPORT	WELL LABEL # L <u>789672</u>
(ORS 537.765 & OAR 690-205-0210)	START CARD # <u>206299</u>
Instructions for completing this report are on the last page of this form.	ORIGINAL LOG #
(1) LANDOWNER Owner Well (.D. First Name Rustin Last Name Smith	(9) LOCATION OF WELL (legal description) County <u>Saker</u> Twp <u>8</u> N or Range <u>40</u> For W W.M.
Address P.O. Dox 583	Sec $\underline{22}$ $\underline{5e}$ 1/4 of the \underline{NW} 1/4 Tax Lot $\underline{300}$
City Bolar City State OP. Zip 97819	
	Tax Map Number Lot Lat ' or DMS or DD
(2) TYPE OF WORK 🛛 🖾 New 📋 Conversion 🔲 Deepening	Long OT DMS of DD
Alteration (complete Sections 2a & 10) Abandonment (complete Section 5a)	
(2a) PRE-ALTERATION: Well Depth ft.	Street Address of Well (or pearest address) 1/4 mile east of
Seal Material	203 pond Baker Gity
Casing Type: Steel Plastic Other	
	(10) STATIC WATER LEVEL
Casing Gauge Casing Diameter	Date SWL(psi) + SWL (ft)
	Existing Well/Pre-Alteration
(3) DRILL METHOD Z Rotary Air C Rotary Mud Auger	Completed Well 9-4-12 6
Cable Cable Mud Reverse Rotary Other	Flowing Artesian? Yes Dry Hole? Yes
(4) PROPOSED USE Domestic Herrigation Community	WATER BEARING ZONES Depth water was first found
(4) PROPOSED USE Domestic Development Community Industrial/Commercial Livestock Dewatering Injection	SWL Date From To Est Flow SWL (psi) + SWL (ft)
Thermal Other	
(5) BORE HOLE CONSTRUCTION	8-20-12 4 5 5 9-4-12 27 390 700 6
(5) BORE HOLE CONSTRUCTION	
Depth of Completed Well 398 ft. Special Standard: Yes (attach copy)	
BORE HOLE SEAL	
Dia From To Material From To Amount Sets/lbs	
14 0 80 Cement 10 80 36	(11) WELL LOG Ground Elevation
Bent 0 10 11	Material From To
10 80 200	Top Soil 0 1
8 200 390	Brown Chan 1 4
How was seal placed: Method 🗍 A 📙 B 📕 🗲 🗍 D 🗌 E	Brown Clay Sard 4 5
Other Poured Bentonite	Brown Clay 5 27
Backfill placed from ft. to ft. Material	Sand Grand W/ Brown 27 and Blue Clay Streeks 390
'ilter pack from ft. to ft. Material Size	and while cray streaks 310
(5a) ABANDONMENT USING UNHYDRATED BENTONITE:	
Calculated Amount Proposed to be Used:sacks/lbs	RECEIVED BY OWRD
	RECEIVED BY OWRD
Calculated Amount Proposed to be Used:sacks/lbs	
Calculated Amount Proposed to be Used:	RECEIVED BY OWRD SEP 1 2 2012
Calculated Amount Proposed to be Used:	
Calculated Amount Proposed to be Used:	SEP 1 2 2012
Calculated Amount Proposed to be Used:	SEP 1 2 2012
Calculated Amount Proposed to be Used:	SEP 1 2 2012
Calculated Amount Proposed to be Used:	SEP 1 2 2012 SALEM. OR Date Started 8-20 - 12 Completed 9-4-12
Calculated Amount Proposed to be Used:	SEP 1 2 2012 SALEM, OR Date Started 8-20 - 12 (unbonded) Water Well Constructor Certification
Calculated Amount Proposed to be Used:	SEP 1 2 2012 SALEM, OR Date Started 8-20 - 17 Completed 9-4-12 (unbonded) Water Well Constructor Certification I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well
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BAKE 52230

STATE OF OREGON

ORIGINAL ~ WATER RESOURCES DEPARTMENT ONE COPY FOR CONSTRUCTOR ONE COPY FOR CUSTOMER SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

