# Water Right Conditions Tracking Slip Groundwater/Hydrology Section FILE # # \_\_\_\_ G - 16991 ROUTED TO: \_\_\_ Water Rights TOWNSHIP/ RANGE-SECTION: 55/3E - 4

CONDITIONS ATTACHED?: [Myes [] no

REMARKS OR FURTHER INSTRUCTIONS:
SIL conditions on p. 2

Reviewer: Josh Hackett

## WATER RESOURCES DEPARTMENT

MEMO						J	uly	24,	200_8
TO: FROM: SUBJECT:	Application GW: Jos Conic Water	L Ha	ckett Name)		aluatior	1			
YES	The source of	f approp	riation	is within	ı or abo	ve a Sc	enic Wa	aterway	
YES	Use the Scen	ic Water	way co	ndition	(Condit	ion 7J)			
Per O interfect the D that t	RS 390.835, therence with surated interference RS 390.835, therence with surepartment is used to mainta	face water the face is dissipled face water the face water to see will re-	ter that of tributed d Water that of the tributed to the tribu	contributed below.  Section contributed the fact	n is una ntes to a re is a p luce the	ble to c scenic repond	Waterwalculatewaterwalerance	e ground ay; ther of evid r flows	water efore, ence
Calculate the pecalculated, per c	ON OF INTEI rcentage of consu criteria in 390.835 Rights that the D	mptive us , do not f	e by mon ìll in the t	able but	check the	"unable	" option	above, thi	lS.
Waterway by	is permit is cal the following a water flow is	amounts	express				he cons	umptive	Scenic use by
Jan Feb	Mar Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

# PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	Section				Date	July 24,	2008							
FROM:	:	Grou	nd Water/	Hydrology	Section	Reviewer's Name											
SUBJE	CT:	Appl	ication G-	16991	- A			eview of		Date of Rev	riew(s)						
PUBLI	C INT	ERES	Γ PRESU	MPTION;	GROUNI	DWATE	R										
OAR 69 welfare, to detern	90-310-1 safety at nine whe	30 (1) ind heal ther the	The Depart th as descr e presumpt	tment shall p ribed in ORS tion is establi	resume that 537.525. D shed. OAR	a propose epartment 690-310-1	ed groundw staff review 140 allows t	v ground wate he proposed u	ensure the prese or applications use be modified cies in place at	nder OAl or condit	R 690-31 ioned to	0-140 meet					
A. GEN	ERAL II	NFORM	AATION:	Applicant's	Name:	George Ha	ansen		County: Clac	kamas							
Al.	Applica	nt(s) se	eek(s) <u>0.2</u>	223 cfs f	rom <u>2</u> w	ell(s) in th	e	Willamette	_			_ Basin,					
			_	<u> </u>		subb	oasin Qu	ad Map: Co	olton								
A2. A3.								year-round rk proposed	wells as such u	nder log	id):						
Well	Log	id	Applicant Well #	t's Propose	ed Aquifer*	Propose Rate(cfs		Location T/R-S QQ-Q)		n, metes a							
1		PROPOSED 1		all	uvium	0.223	5S/	3E-4 NW-SW	175'S	, 525'E fr	W 1/4 cor	S 4					
3	PROPO	OSED_	2	all	uvium	0.223	5S/	3E-4 NW-SW	75'S,	1025'E fr	W 1/4 cor	S 4					
4																	
5 * Alluviu	ım, CRB,	Bedroc	k														
Well	Well Elev ft msl	First Wate	r SWL	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					
2	655 665				~200	0-18 0-18	0-18 0-18										
	003				~200	0-18	0-18										
								_									
Y You date	G	lination	£0.2 22020000	d walla													
	irom app	lication	for propose	a wens.													
A4.	Comme	ents: _															
				_													
		_															
A5. 🛛			the Willa	mette			Basin r		the developme								
	(Not all	basin i	rules conta	ater hydrauli in such provi	cally conne sions.)	cted to sur	face water		so the pertinen								
A6. 🗌	Name o	of admii	nistrative a	rea:					er limited by an			triction.					
	Comme	mts:															

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Applica	tion:	G- 16991 continued	Date:	July 24, 2008	2
B. GRO	<u>DUN</u>	D WATER AVAILABILITY CONSIDERATIONS, OAR 6	<u>90-310-130</u>	, 400-010, 410-0070	
В1.	Base	ed upon available data, I have determined that ground water* for the	proposed use	<del>2</del> :	
	a.	is over appropriated, is not over appropriated, or cannot period of the proposed use. * This finding is limited to the groundetermination as prescribed in OAR 690-310-130;	be determine nd water port	ed to be over appropriated during ion of the over-appropriation	g any
	b.	will not or will likely be available in the amounts requested wis limited to the ground water portion of the injury determination			ling
	c.	$\square$ will not $or$ $\square$ will likely to be available within the capacity of the	he ground wa	ater resource; or	
	d.	will, if properly conditioned, avoid injury to existing ground wat i.  The permit should contain condition #(s) 7B, 7C  ii. The permit should be conditioned as indicated in item 2 iii. The permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) as indicated in the permit should contain special condition(s) and t	below.	<u> </u>	;
B2.	a.	☐ Condition to allow ground water production from no deeper than	n	ft. below land surface;	
	b.	☐ Condition to allow ground water production from no shallower t	than	ft. below land surface;	
	c.	Condition to allow ground water production only from the water reservoir between approximately ft. and	ft. be	groulow land surface;	nd
	d.	Well reconstruction is necessary to accomplish one or more of the occur with this use and without reconstructing are cited below. We issuance of the permit until evidence of well reconstruction is file Water Section.	Vithout recon	struction, I recommend withholdi	ing
		<b>Describe injury</b> —as related to water availability— that is likely to o senior water rights, not within the capacity of the resource, etc):			
B3.	The Formain than	und water availability remarks: SPECIAL CONDITION: or to using water on this permit, the permittee shall ensure that the atification Number (Well ID or Well tag number). If a well does no from the Department. The Well ID shall be attached to the well ar applicant's proposed wells are located in an area that contains volcani mation from land surface to a depth of several hundred feet (Hampton, ally of lava flows, breccia, and andesite-tuffs. Production in nearby well 100 gallons per minute.  The is little available information to assess the stability of the ground was term water level monitoring,	ot have a Wend shall be user use, water cand volcan 1972). In this is that tap this	ell ID, the permittee shall apply sed as a reference identification r level, or pump test reports.  iclastic materials of the Sardine s area the Sardine Formation consist formation is generally limited to	sists o less

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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		
2	alluvium		

Basis for aquifer confinement evaluation: Water levels in nearby wells rise above productive beds. Additionally, productive zones are confined by at least 40 feet of fine grained sediment.

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	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potentia Subst. Int Assume	terfer. ed?
		it msi	Party I			YES	NO	
1	1	Bull Creek	600	460-600	4400			
2	1	Bull Creek	600	460-600	4900			$\boxtimes$
1	2	Canyon Creek	600	660-760	5250			X X
2	2	Canyon Creek	600	660-760	4600			$\boxtimes$
1	3	Milk Creek	600	450-580	4000			X X
2	3	Milk Creek	600	450-580	4200			$\boxtimes$
					_			

Basis for aquifer hydraulic connection evaluation: Wate	r levels in local wells are coincident or above the elevations of
nearby stream reaches, therefore ground water probably disch	arges to local streams. Additionally, several nearby springs
discharge ground water to local streams. These factors sugges	t a hydraulic connection between the ground water system and
local streams. The presence of fine grained sediments indicate	

Water Availability Basin the well(s) are located within: 131: MILK CR > MOLALLA 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> 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
1	1			n/a			8.92		<25%	$\boxtimes$
2	1			n/a			8.92		<25%	
1	2			n/a			8.92	$\boxtimes$	<25%	$\boxtimes$
2	2			n/a	_		8.92	$\boxtimes$	<25%	$\boxtimes$
1	3			MF131A	20.00		8.92		<25%	
2	3			MF131A	20.00	$\boxtimes$	8.92	$\boxtimes$	<25%	$\boxtimes$

Application:	G-	16991	continued
Application.	<b>U</b> -	エロノノエ	 Continuce

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.

CValuation at	a mintatione	appij as		<del></del>					
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?
	_					_		-	

omments: Modeling in similar circumstances suggests impacts due to pumping will be much less than 25% of the pumping te after 30 days of pumping.	<u>ıg</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.

	stributed W		n.,										
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul_	Aug	Sep	Oct	Nov	Dec
		%	%	_%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
Distrib	ited Wells										_		
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS											,,	,,
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS								,,=		7.0	7.0	
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS						,,,	, ,	70	7.0	,,,	,,	70
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS						,,,		,,,	,,,	,,	,,	- 70
	nce CFS	•											
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS											,,	,,
	ence CFS												
-		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS			_		_					, =		,,,
Interfere	ence CFS												
//\ m							Charles and the	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	tal Interf.												
	% Nat. Q												
(C) = 1 %	% Nat. Q												
(D) = (A	) > (C)			V									_
	/ 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:

	6991	continu			_	Date: <u>July 24, 2</u>	.000	
		_						
							<u></u>	
690-09-04 Rights	10 (5) (b) Section.	The potenti	al to impair o	or detrimentally a	affect the public	interest is to be	e determined b	y the Wate
under this	permit can The perm	be regulated nit should co	d if it is found ontain conditio	rce(s) can be adeq to substantially in on #(s)	terfere with surfa	ce water:	e, and/or grour	nd water use
11	」 I ne perr	nit snould co	ontain special o	condition(s) as ind	icated in "Remar	ks" below;		
SW / GW Rei	marks and	Conditions:	:					
								_
						_	-	_
							-	
								_
Defended V								
	., 1972, Ge			of the Molalla-Sale	em Slope Area, N	orthern Willam	ette Valley, Ore	egon: U.S.
	., 1972, Ge			of the Molalla-Sale	em Slope Area, N	orthern Willam	ette Valley, Ore	egon: U.S.
Hampton, E.R Geological Su Gannett, M.W	., 1972, Gervey Water	-Supply Pape well, R.R., 19	er 1997, 83p. 998, Geologic	of the Molalla-Sale framework of the Paper 1424-A, 32p	Willamette lowla			
Hampton, E.R Geological Su Gannett, M.W Washington:	., 1972, Ge rvey Water ., and Cald U.S. Geolo	-Supply Pape well, R.R., 19 gical Survey	er 1997, 83p. 998, Geologic Professional I	framework of the Paper 1424-A, 32p	Willamette lowla	and aquifer syste	em, Oregon and	<u>d</u>
Hampton, E.R. Geological Su Gannett, M.W. Washington: Woodward, D.	., 1972, Gervey Water ., and Cald U.S. Geolo	-Supply Pape well, R.R., 19 gical Survey	er 1997, 83p.  998, Geologic Professional I	framework of the	Willamette lowla	and aquifer syste	em, Oregon and	<u>d</u>
Hampton, E.R. Geological Su Gannett, M.W. Washington: Woodward, D.	., 1972, Gervey Water ., and Cald U.S. Geolo	-Supply Pape well, R.R., 19 gical Survey	er 1997, 83p.  998, Geologic Professional I	framework of the Paper 1424-A, 32p	Willamette lowla	and aquifer syste	em, Oregon and	<u>d</u>
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Appli	plication: G- 16991 continued Date: July 24, 2008	
D. <u>W</u>	WELL CONSTRUCTION, OAR 690-200	
D1.	. Well #: Logid:	
D2.	THE WELL does not meet current well construction standards based upon:  a. review of the well log;  b. field inspection by report of CWRE  d. other: (specify)	;
D3.	THE WELL construction deficiency:  a.	
D4.		
D5.	a.	time of
	b.	
D6.	Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence is filed with the Department and approved by the Enforcement Section and the Ground Water Section.	
THIS	HIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7.	Well construction deficiency has been corrected by the following actions:	
		<u>,                                      </u>
		, 200
	(Enforcement Section Signature)	
D8.	Route to Water Rights Section (attach well reconstruction logs to this page).	

Water Availability Calculation

Date: July 24, 2008

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### Water Availability Tables

# MILK CR> MOLALLA R- AT MOUTH WILLAMETTE BASIN

Instream Requirements

Reservations

### Water Availability Calculation

Consumptive Uses and Storages

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net Water Available
Jan	124.00	2.49	122.00	0.00	85.00	36.50
Feb	117.00	2.40	115.00	0.00	85.00	29.60
Mar	121.00	2.12	119.00	0.00	85.00	33.90
Apr	91.50	2.38	89.10	0.00	85.00	4.12
May	59.20	5.57	53.60	0.00	85.00	-31.40
Jun	26.50	7.54	19.00	0.00	60.00	-41.00
Jul	10.80	12.80	-1.99	0.00	40.00	-42.00
Aug	8.92	10.50	-1.58	0.00	20.00	-21.60
Sep	8.95	4.69	4.26	0.00	20.00	-15.70
Oct	15.20	1.72	13.50	0.00	40.00	-26.50
Nov	32.20	2.09	30.10	0.00	85.00	-54.90
Dec	92.00	2.57	89.40	0.00	85.00	4.43
Storage cre-Feet at 50%	93,600.00	3,450.00	90,200.00	0.00	46,700.00	48,600.00

MILK CR> MOLALLA R- AT MOUTH WILLAMETTE BASIN

Water Availability Calculation

Consumptive Uses and Storages

Instream Requirements

Reservation:

### **Detailed Report of Instream Requirements**

Instream Requirements in Cubic Feet per Second

Application #	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
MF131A	CERTIFICATE	85.00	85.00	85.00	85.00	85.00	60.00	40.00	20.00	20.00	40.00	85.00	85.0
Maximum	CONTRACTOR OF THE PARTY OF THE	85.00	85.00	85.00	85.00	85.00	60.00	40.00	20.00	20.00	40.00	85.00	A ST

Date: <u>July 24, 2008</u>

### Well Location Map

