WATER RESOURCES DEPARTMENT

MEM	(O							_Sep	<u>t 4</u>	, 2	200_9_		
TO: FROM SUBJ		Application G- 17236 GW: Mele (Reviewer's Name) Scenic Waterway Interference Evaluation											
	_YES _NO	The so	urce of	appropr	iation is	s within	or abov	/e a Sce	nic Wat	terway			
	_YES _NO	Use the	e Scenic	: Waterv	way con	dition (Conditi	on 7J)					
8	Per OF interfe the Detthat the	RS 390.8 rence where the distribution of the contract of the c	ith surfar ference 835, the ith surfar ent is ur osed us	ace water is district of the control	er that c ributed I I Water er that c find th leasura	ontribut below. Section ontribut at there bly red	is unal es to a s e is a pr uce the	Scenic V ble to ca scenic w reponde surface	Waterwa alculate vaterway erance of ewater	ground y; there of evide flows	water		
Calculo calcula informi Exerci Water	RIBUTION THE	rcentage or riteria in Rights th is permi	of consum 390.835, at the De t is calc owing an	nptive use do not fil partment ulated to nounts	by montal lin the to is unable o reduce	ble but contake e month	heck the a Prepor ly flow:	"unable" nderance s in	option a of Eviden	bove, thu	s g. Scenic		
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
					į.								

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	Rights S	ection				Date	e <u>9/4/2009</u>			
FROM	:	Groun	nd Water/	Hydrology	Section _		Miller					
SUBJE	CT:	Appli	cation G-	17236			iewer's Name persedes re	view of	none	Date of Re	view(c)	
					an arn	~~~	~			Date of Re	view(s)	
OAR 69 welfare, to determ	90-310-1 safety ar mine whe	30 (1) 7 and healt ther the	The Depart th as descr presumpt	<i>ibed in ORS</i> ion is establi	resume the 537.525. Ished. OAI	at a propos Department R 690-310-	red groundwe t staff review 140 allows ti	ground water he proposed	ensure the prese er applications u use be modified icies in place at	ınder OA or condi	R 690-31 tioned to	0-140 meet
A. <u>GE</u> I	NERAL	<u>INFO</u>	<u>RMATIO</u>	<u>ON</u> : A	pplicant's	Name:	Portland \	VA Medica	l Center (County:	Multno	mah
A1.	Applica	nt(s) se	ek(s) 0.3	8 cfs from	n one	welle	(s) in the	Willamette	e			Basin,
		Columb				subb	, ,	ad Map: Po				
A2. A3.									-9/31 for irrig, wells as such			thers
Well	Logi		Applicant Well #	Ac	oposed quifer*	Propos Rate(c	fs) (T	Location /R-S QQ-Q)	2250' N	n, metes a N, 1200' E	fr NW cor	r S 36
1	proposed 1			(CRB	0.38	15/	1S/1E-S9 NESE		305'N fr S SE Qt		Qtr of
2												
3 4	-						-		-			
5												
* Alluviı	ım, CRB,	Bedrock										
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	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
1	505	E180	E180		E600	0-120	0-122	0-600	unknown			
							_		_			
			 			_						
Use data	from app	lication 1	for proposed	i wells.								
	the nor	th. It i	s reasonal	ole that con	ditions wi	II be simila	r with CRE	being the ta	MULT 2775/60 arget aquifer. ell should enjoy	Some var	riation is	to be
A5. 🗌	manage (Not all	ment of basin r	ules contai	ater hydrauli n such provi	cally connisions.)	ected to su	rface water	are, or	to the developm are not, activ	ated by th	nis applic	ation.
A6. 🗌		f admin	istrative an	ea:					er limited by an		rative res	triction.
							<u>-</u>					

<u>OUN</u>	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
Bas	sed 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.	\square will not or \boxtimes 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) 71 (standard) ; 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;
c.	Condition to allow ground water production only from the water reservoir between approximately 0 ft. and 1000 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):
sev are abo imi The	ound water availability remarks:
_	

Application G- 17236 continued

9/4/2009

Date____

Well			Aquifer	or Proposed	Aquifer		C	onfine	i	U	Inconfine	d
1	CRB							\boxtimes				
								-				
-								旹-				
							ly confined. Such conditi					
							with, surface					
assume	d to be		illy conne			source. Inc	lude in this ta				eyond on	
W/ ₂ 11	Well SW Surface Water Name				GW	SW	Distance			lically		nai for interfer.
well	Vell # Surface Water Name			ier Name	Elev ft msl	Elev ft msl	(ft)		Conne NO	Assu	med?	
1	1 I'mamed to CCW					000 1220			ASSUMED	YES	NC	
1	1 Unnamed to SSW		V	E200	420- 325	800-1320		M			\boxtimes	
1	2	Willame	tte R		E200	10	3900		\boxtimes			
		-						ᆜ	-			
		 				-		_ _ _	- 片			
						 	_	눆	吊			-
									Ħ			
	ed to s	urface was	ter. In a	ddition, the	unnamed tri	butary is i	ned aquifer s ntermittent	outh	hout i	ts length.		
		· Evaluati	on of ctre	am impacts	for anah wall	that has be			ammea			
0-09-0 onnecte re pertin	40 (4) ed and nent to	less than that surfact ate against	1 mile from the mile from the 1% o	ource, and not f 80% natural Any checked	water source. of lower SW s of flow for the	Limit eva sources to pertinent cates the w	luation to inst which the stre Water Availa ell is assumed	ream ri am und bility B I to hav	ghts a ler eva asin (e the	aluation is tri WAB). If Q potential to c	butary. C is not dis ause PSI	ompare tributed
0-09-0 onnecte re pertin	40 (4) ed and nent to	less than that surfact ate against	1 mile from the mile from the 1% o	om a surface ource, and no f 80% <i>natura</i>	water source. ot lower SW s if flow for the Existing box indice Instream Water Right Q	Limit eva sources to pertinent	luation to inst which the stre Water Availa ell is assumed 80% Natural Flow	eam ricam und bility E I to hav Qw = of 8 Nat	ghts a der eva sasin (ve the > 1% 80% ural	aluation is tri WAB). If Q	is not discause PSI e Por for Int	ompare tributed ential Subst. erfer.
0-09-0 onnecte e pertii e reque well, well	ed and nent to ested ra- use ful	that surface ate against l rate for each	1 mile from the water state 1% of ach well. Qw >	om a surface ource, and no f 80% natura Any checked Instream Water Right	water source. of lower SW sold flow for the low box indice. Instream Water	Limit eva sources to pertinent cates the w Qw > 1%	luation to inst which the stre Water Availa ell is assumed 80% Natural	eam ricam und bility E I to hav Qw = of 8 Nat	ghts a der eva asin (ve the 1%	Interference @ 30 days	is not discause PSI e Por for Int	ompare tributed ential Subst.
0-09-0 onnecte e pertir e reque well,	ed and nent to ested ra- use ful	that surface ate against l rate for each	1 mile from the water state 1% of ach well. Qw >	om a surface ource, and no f 80% natura Any checked Instream Water Right	water source. ot lower SW s if flow for the Existing box indice Instream Water Right Q	Limit eva sources to pertinent cates the w Qw > 1%	luation to inst which the stre Water Availa ell is assumed 80% Natural Flow	eam ricam und bility E I to hav Qw = of 8 Nat	ghts a der eva sasin (ve the > 1% 80% ural	Interference @ 30 days	is not discause PSI e Por for Int	ompare tributed ential Subst. erfer.
0-09-0 nnecte e pertin e reque well,	ed and nent to ested ra- use ful	that surface ate against l rate for each	1 mile from the water state 1% of ach well. Qw >	om a surface ource, and no f 80% natura Any checked Instream Water Right	water source. ot lower SW s if flow for the Existing box indice Instream Water Right Q	Limit eva sources to pertinent cates the w Qw > 1%	luation to inst which the stre Water Availa ell is assumed 80% Natural Flow	eam ricam und bility E I to hav Qw = of 8 Nat	ghts a der eva sasin (ve the > 1% 80% ural	Interference @ 30 days	is not discause PSI e Por for Int	ompare tributed ential Subst. erfer.
nnecte e pertine e reque well,	ed and nent to ested ra- use ful	that surface ate against l rate for each	1 mile from the water state 1% of ach well. Qw >	om a surface ource, and no f 80% natura Any checked Instream Water Right	water source. ot lower SW s if flow for the Existing box indice Instream Water Right Q	Limit eva sources to pertinent cates the w Qw > 1%	luation to inst which the stre Water Availa ell is assumed 80% Natural Flow	eam ricam und bility E I to hav Qw = of 8 Nat	ghts a der eva sasin (ve the > 1% 80% ural	Interference @ 30 days	is not discause PSI e Por for Int	ompare tributed ential Subst. erfer.

9/4/2009

Version: 08/15/2003

Date_

Application G- 17236 ____continued

Application G	17236	continued

Date	9/4/2009	

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?

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.

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NA		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	as CFS	_											
Interfere											_		
	uted Well												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	<u>%</u>	%	%	%	%	%
Well Q a													
Interfere	nce CFS												
		%	%	%	%	%	%	<u>%</u>	%	%	%	%	%
Well Q a	_												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a													
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a	_												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q a													
Interfere	nce CFS												
		%	%	%	%	%	%	%	-%	%	%	%	%
Well Q													
Interfere	nce CFS												
(A) = Tot	tal Interf.												
· · ·	% Nat. Q												
(C) = 1 %													_
(D) = (A)) > (C)	1	1	1	1	1	1	1	V	7	7		1
	/B) x 100	%	%	%	%	%	%	%	%	%	%	%	%
(E) – (A /	D) X 100	. •					, 3		, ,		, 3		

(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.

Application G- 17236continued	Date9/4/2009
Basis for impact evaluation: NA	
C4b. 690-09-040 (5) (b) The potential to impair or detrimentally affect to Rights Section.	the public interest is to be determined by the Water
25. If properly conditioned, the surface water source(s) can be adequately under this permit can be regulated if it is found to substantially interfere i. The permit should contain condition #(s)	
ii. The permit should contain special condition(s) as indicated	in "Remarks" below;
(200 feet versus 10 feet amsl). This speaks to the lack of meaningful hyd purposes. The Unnamed tributary of the Willamette to the south of the topographic map characterizes it as intermittent. This means that grou more recent precipitation and not longer term discharge from the CRB. head level passes over a range of heads that could be the same as that fo example, the tributary head occurs at the distance from the proposed we 2900/120.	draulic connection to the Willamette for permitting proposed well traverses the upland basalts. The and water discharge to the tributary is the result of this would eclipse the fact that the tributary bound at the proposed well, once drilled. For
References Used: logs MULT 2775/60413, water level data from sever	ral wells, file, USGS reports

D. <u>V</u>	<u>VEL</u>]	L CON	STRUC'	ΓΙΟΝ, (OAR 690-	· <u>200</u>									
D1.	V	Vell #: _	NA		_	Logid:									
D2.	a		review of t field inspe report of C	the well ction by CWRE _	log; 	vell constru									
D3.	a b c		constitutes commingle permits the permits the	a health es water e loss of e de-wat	from more artesian hea ering of one	er Division than one gr	ound war	ater rese	ervoirs;						
D4.	7 - -					is describe									
	-														
D5.	T	THE W	ELL	а b	original co	was not construction of	or most r	recent m	odificat	ion.		effect at	the tim	e of	
D6.						I recomment ved by the l								vell reco	onstruction
THI	IS SE	ECTIO	N TO BE	COM	PLETED	BY ENFO	ORCEN	MENT	PERSO	ONNE	L				
D7.		Well con	struction o	deficienc	y has been	corrected b	y the fol	lowing	actions:						
	-							·							
	-														
	-														
	-														
	-		(Enforcer	ent Sect	ion Signatu	ure)			_						_, 200
			`			,									
D8.		Route t	o Water I	Rights So	ection (atta	ich well red	construc	ction lo	gs to this	s page)					

Date____

9/4/2009

Application G- 17236 continued

0.5

Cascade Volcanics

Columbia River Basalt

Low Yield Bedrock

Unknown

1.5 Miles

Deschutes Fm.

GW Water Level Input - Standard

Logid	MULT	2750	Well Tag Log ————	Csg Diam Field		-	TRS	100	S/10	00 E	ADDD	
	obs Well		Well Tag Field ————	Max Depth	233						MULTNOM PORTLA	1
(OWRD Site N Owner Well N		/ LINCOLN HALL								iracy	
Owner		STATE UNIVE			Cal Before			Ph Wo	e rk			_
Owner Comments					Visi		Call I	FA	X			=
Well Add	lress ——											_
Sow						MP	Gage	Airline	Reprted	Verified	Export	
Num Lo		Source Org	SourceOWRD	Date	Time	Hght	PSI	Length	Wtr Lvl	WL BLS	WL BLS	
200	100 (200)	50 DRILLER	PERMIT COND PRGRI					Alkie del e	135.333		135.33	
MI	ULT 27	50 PE	PERMIT COND PRGRA	02/29/1996		9			115.5	115.5	115.50]	ETAPE
М	ULT 27	50 PE	PERMIT COND PRGRA	M 08/14/1997		9	14/1/4			113	113.00	ETAPE
MI	ULT 27	50 PE	PERMIT COND PRGRA	01/03/2000		9			117 .	117	117.00	ETAPE
М	ULT 27	50 PE	PERMIT COND PRGRI	01/04/2001		9			117	117	117.00	ETAPE
М	ULT 27	50 PE	PERMIT COND PRGRI	M 12/27/2001		9			119		119.00	ETAPE
М	ULT 27	50 PE	PERMIT COND PRGRI	05/06/2003		9			118		119.00	ETAPE
м	ULT 27	50 PE	PERMIT COND PRGRA	01/15/2004		9		ACTIVITIES	119		119.00	ETAPE
МІ	ULT 27	50 PE	PERMIT COND PRGRA	12/21/2004		9			119		119.00	ETAPE
М	ULT 27	50 PE	PERMIT COND PRGRA	12/21/2005					123.33		123.33	ETAPE
М	ULT 27	50 PE	PERMIT COND PRGRA	M 01/31/2007		9			- 1			
М		50 PE	PERMIT COND PRGRA			A STATE						

GW Water Level Input - Standard

Logi	id	MULT	MULT 2740 Well Tag Log ————				1		TRS	1_00	<u>s</u> /1.0	10 E4	CA	[
State	Ob	s Well			Well Tag Field ————	Max Depth	230	0	County					
	С	OWRD S Owner V			1 / CRAMER HALL				Quad24 sd Elev			LsdAccu	racy	_
Own	er									Ph Hom				
Conta	ct						Ca				rk			
Own	er						Before				11			— i
Commen	ts						Visi	it			X			
								-	Call	First Phor	ne			1
Well A	ddr	ess —]
Sow								MP	Gage	Airline	Reprted	Verified	Export	
Num	Log	gid		Source Org	SourceOWRD	Date	Time	Hght	PSI	Length	Wtr Lvl	WL BLS	WL BLS	Methoc
	MU	ILT	2740	OWRD	WELLLOG	11/18/1965			SACE OF		144 .	144	144.00	REPOR
	MU	ILT	2740	PE	PERMIT COND PRG	RM 02/29/1996		18			133 .		133.00	ETAPE
	MU	ILT_	2740	PE	PERMIT COND PRG	RM 08/14/1997		18			132		132.00	ETAPE
	MU	ILT	2740	PE	PERMIT COND PRG	RM 01/03/2000		18			135		135.00	ETAPE
	MU	ILT	2740	PE	PERMIT COND PRG	RM 01/04/2001		18			136		_136.00	ETAPE
	MU	ILT	2740	PE	PERMIT COND PRG	RM 12/27/2001		18			137		137.00	ETAPE
	MU	ILT	2740	PE	PERMIT COND PRG	RM 05/06/2003		-18			136		_136.00	ETAPE
	MU	ILT	2740	PE	PERMIT COND PRG	RM 01/15/2004		18			136		136.00	ETAPE
	MU	ILT	2740	PE	PERMIT COND PRG	RM 12/21/2004		18			136.08		_136_08	ETAPE
	MU	ILT_	2740	PE	PERMIT COND PRG	RM 12/21/2005		18		EVENTE:	140.75		140.75	ETAPE
	MU	ILT_	2740	PE	PERMIT COND PRG	RM 01/31/2007		18			145.75		145.75	ETAPE
	MU	ILT_	2740	PE	PERMIT COND PRG	RM 01/03/2008		18			139.83		139.83	ETAPE
	MU	ILT	2740	CWRE	PERMIT COND PRG	RM 02/04/2009		18			135.75	135.75	135.75	ETAPE

GW Water Level Input - Standard

Logid MULT4852 State Obs Well	Well Tag Log Well Tag Field		Csg Diam Field Max Depth	300	1				00 E 3			
OWRD Site Name . <u>Wa</u> Owner Well Name . <u>W</u> A												
Owner City of Portland Parks Contact ———————————————————————————————————	•			Cal			Ph Wor	k				
-				Before Visi	t	Call F	FA	29 LsdAccuracy5 Ph Home Ph Work Ph Cell FAX Irst Phone Airline Reprted Verified Export				
Well Address												
Sow					MP G	age	Airline	Reprted	Verified	Export		
Num Logid Source	e Org Sour	rceOWRD	Date	Time	Hght	PSI	Length	Wtr Lvi	WL BLS	WL BLS Method		
MULT 4852 OWR	D WEL	LLOG	06/26/1995					23 .	23 .	23.00 REPO		
MULT 4852 OWNE	ER PUM	IP TEST PRGRM	09/25/2003	09:00:00	-2.67			25.42	25.42	25 42 ETAPE		