Water Right Conditions Tracking Slip Groundwater/Hydrology Section FILE # # __ G- 17359 ROUTED TO: __ W.R. TOWNSHIP/ RANGE-SECTION: IS/25E-35 CONDITIONS ATTACHED?: Wes [] no REMARKS OR FURTHER INSTRUCTIONS:

WATER RESOURCES DEPARTMENT

MEMO					•		Ma	y /	7_ ,:	20\$ <u>0</u>
TO: FROM: SUBJECT:		(Re	eviewer's N	1359 Noxto Name) terfere	nce Eva	luation		,		
YES	The so	ource of	approp	riation i	s within	or abov	ve a Sce	· enic Wa	terway	
YES	Use th	e Scenie	c Water	way cor	ndition (Conditi	on 7J)			
Per O interf the D that t	RS 390. erence we atted into the properation of th	vith surficerference 835, the vith surficent is un osed us	ace water is districted ace water to the control of	er that cributed d Water er that critical that critical that expression in the critical that critic	ontribut below. Section ontribut at ther bly red	is unal tes to a se is a pruce the	Scenic Volle to cascenic we reponde surface	Waterwa alculate vaterwa erance (e water	ground y; there of evide flows	water
DISTRIBUT Calculate the per calculated, per informing Wate. Exercise of the Waterway by which surface	ION OF ercentage criteria in Rights the his permitted the following the following permitted to the following permitted the following permitted to the following permitted the following permitted to the following permitted t	INTER of consum 390.835, at the De	FEREN nptive use do not fil partment ulated t mounts	CE by mont li in the to is unable o reduce	h and fill able but c to make e month	in the tab heck the a Prepon ly flows	ole below. "unable" oderance	If interfe option a of Eviden	erence ca bove, thu ce finding	s g. Scenic
Jan Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO:		Wate	r Rights S	ection				Date	May 17	, 2010		
FROM	:	Grou	ndwater/H	lydrology S	Section _		Norton					
SUBJE	CT.	Anal	iontion G	17350			iewer's Name	:				
SODJE	.C1.	Аррі	ication G-	17359		Su	persedes re	view oi		Date of Re	view(s)	
PHRII	C INT	FDFC	г ррбен	MPTION;	CDOIN	MINAX/A TE	'D				(=)	
OAR 69 welfare, to determ	90-310-1 safety a mine who	30 (1) nd head ether th	The Depart Ith as descr e presumpt	ment shall p ibed in ORS ion is establ	resume the 537.525. ished. OA	at a proposi Departmen R 690-310-	sed groundwa t staff review 140 allows t	groundwate he proposed u	ensure the pres r applications u use be modified cies in place a	ander OA	R 690-31 tioned to	0-140 meet
A. <u>GE</u>	NERAL	INFC	<u>ORMATIO</u>	<u>ON</u> : A	pplicant's	Name:	Rich Ruhl			County:_	Morro	<u>w</u>
Al.	Applica	ınt(s) se	ek(s) <u>0.3</u>	3 cfs froi	m <u>1</u>	well	(s) in the	Umatilla R	iver			_Basin,
		Willow	Creek			subb	oasin Qu	ad Map:Le	exington			
A2.	Dropos	nd uga:	Inn	igation 20		Coo		_	-	_		_
A2. A3.	Well an	id aquif	er data (att	ach and nu	mber logs	Sea for existin	sonanty:	rk proposed	<u>September 30</u> wells as such	under log		
			Applicant		posed	Propos		Location		n, metes		do o o
Well	Log		Well #	Ac	quifer*	Rate(c		/R-S QQ-Q)	2250'	N, 1200' E	fr NW co	us, e.g. · S 36
1	MORI	ORR 60 1 CRBG		RBG	0.33	01S/2	5E-35 NE N	E 370'	S, 940' E f	r NE cor	S 35	
2 3						_		_				_
4												
5								_			_	
* Alluviı	ım, CRB,	Bedroc	k									
Well	Well Elev ft msl	First Wate ft bls	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
1	1565	20	51	7/6/1977	180	0 - 33	0-33			150		Air
			67.28	5/12/10								
					,							
Lie det	C	1'4'-	<u></u>	1 11.				·				
Use data	from app	lication	for proposed	i wells.								
A4.			field inspe	ection was d					asured in botl	the irrig	ation we	ell and
<u>nearby</u>	domesti	c well.			,							
				_								
Daguage	tod disal		ata ia 150 a	gpm = 0.33								
Reques	tea uisci	iarge r	ate is 150 s	<u>zpm = 0.33 (</u>	cis.							
A5. ⊠	manage (Not all	ment of basin i	ules contai	ter hydraulio n such provi	cally conne	ected to sur	face water [iles relative to ☐ are, or ☐	o the developm are not, active	ent, class ated by th	ification a	and/or tion.
A6. 🗌	Name c	of admii	nistrative ar	ea: NA					er limited by an			
									onservation pl			

G-17359	_ continued	Date	May 17, 2010
NDWATER AVAILABILITY	Y CONSIDERATIONS, OAR 690-3	10-130, 400-	010, 410-0070
sed upon available data, I have c	determined that groundwater* for the propo	osed use:	
period of the proposed use.	* This finding is limited to the groundwar	etermined to teter portion of t	oe over appropriated during any he over-appropriation
■ will not or ■ will likely b is limited to the groundw	e available in the amounts requested witho ater portion of the injury determinatio	ut injury to pri n as prescribe	ior water rights. * This finding ed in OAR 690-310-130;
☐ will not or ☐ will likely to	o be available within the capacity of the gr	oundwater res	ource; or
 i.	contain condition #(s) 7B - Interference ng tube + large monitoring and reporting be conditioned as indicated in item 2 below	ce, 7N - Annua ng with a flow w.	al WL in February, 7P - Well meter ;
Condition to allow ground	water production from no deeper than		ft. below land surface;
☐ Condition to allow ground	water production from no shallower than _		ft. below land surface;
Condition to allow groundy	vater production only from one aquifer wit	hin the Colum	bia River Basalt Group;
occur with this use and with	out reconstructing are cited below. Without	ut reconstructi	on, I recommend withholding
peet deep with a 51 foot static very peed substantially over time with a ferent water level elevations, income BG. The water levels are fairly May 12, 2010, groundwater level in the irrigation	water level when it was constructed. The thout the well having to be deepened. Valicating that they may be developing was stable at this time.	e water level : Vater level da ter from a dif domestic wel	and production could not have ta from nearby wells have ferent aquifer within the
	sed upon available data, I have desired upon available data, I have desired upon available data, I have desired is over appropriated, is period of the proposed use. determination as prescribed will not or will likely be is limited to the groundw will not or will likely to will, if properly condition i. The permit should tag, 7T — measuri ii. The permit should iii. The permit should iii. The permit should iii. The permit should Well reconstruction is necessary occur with this use and with issuance of the permit until Groundwater Section. Describe injury —as related to senior water rights, not within with a 51 foot static with the senior water lights, not within the senior water level elevations, income the series water level elevations, income the series water levels are fairly may 12, 2010, groundwater levels are fairly may 12, 2010, groundwater levels.	sed upon available data, I have determined that groundwater* for the proposed is over appropriated,	Steel upon available data, I have determined that groundwater* for the proposed use:

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. 690-09-040 (1): Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	CRBG		

Basis for aquifer confinement evaluation: Groundwater level is at about the level where it was encountered when the well was constructed.

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	Willow Creek	1510	1485	2500		

Basis for aquifer hydraulic connection evaluation: Groundwater level is below the elevation of Willow Creek.
Water Availability Basin the well(s) are located within: _WILLOW CR> COLUMBIA R- AB RHEA CR

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						.024			

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.

Flow?	(%)	Assumed?

Comme	nts: NA	 	
		 _	

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-Di	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
					117						_	Alexander .	
	uted Well												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q												·	
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												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
4000000													
$(\mathbf{A}) = \mathbf{T}0$	tal Interf.												
(B) = 80	% Nat. Q												
$(C) = 1^{-6}$	% Nat. Q												
(D) = (A	1) > (C)	1	1	1	1	1	1	1	✓	✓	V	V	1
(E) = (A	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

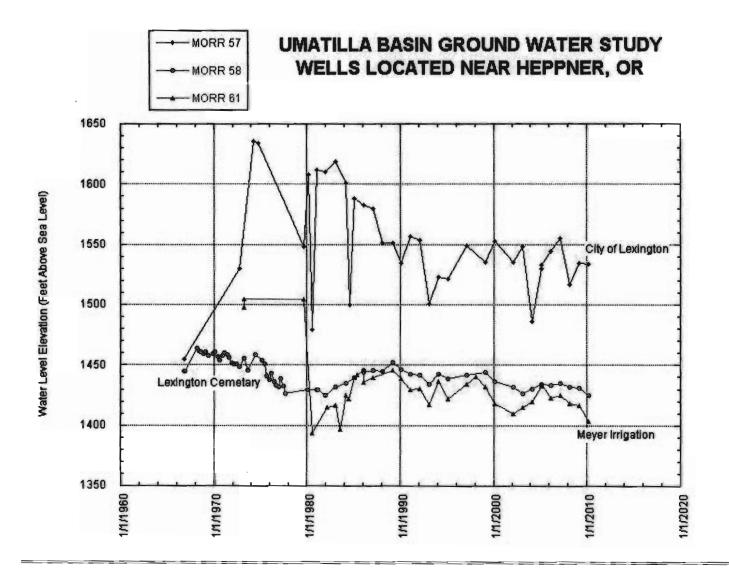
(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

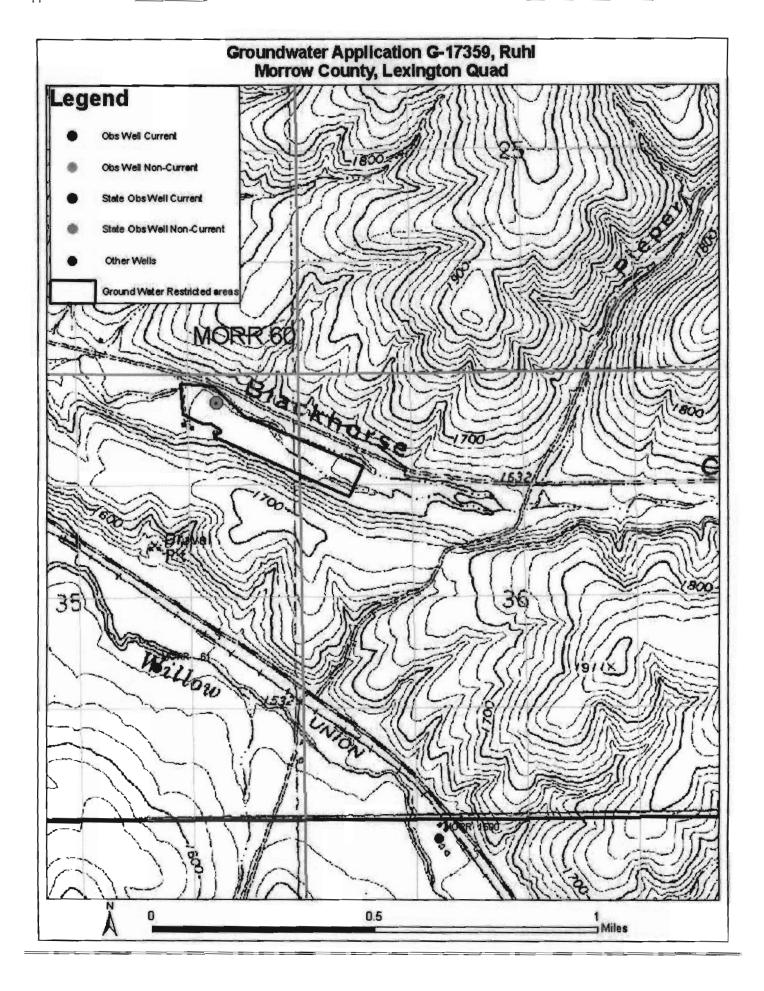
		<u>May 17, 2010</u>
Pasis for impact evaluation.		
Basis for impact evaluation:		
	· · · · · · · · · · · · · · · · · · ·	
(00 00 040 (F) 0) The second of the second o	_	
690-09-040 (5) (b) The potential to impair or detrimentally at Rights Section.	fect the public interest is to b	e determined by the V
If properly conditioned, the surface water source(s) can be adequ	ately protected from interferen	ce, and/or groundwater
under this permit can be regulated if it is found to substantially inte	rfere with surface water:	
 i. The permit should contain condition #(s) ii. The permit should contain special condition(s) as indices 	. 1: (5	
ii. ine permit snould contain special condition(s) as indic	cated in "Remarks" below;	
W/OWB. I IO IV		
V / GW Remarks and Conditions		
		
		
eferences Used:		

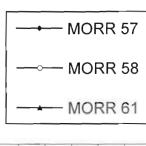
01.	Well #: Logid:	
D2.	THE WELL does not meet current well construction standards based upon: a. review of the well log; b. field inspection by report of CWRE d. other: (specify)	
03.	THE WELL construction deficiency: a.	
D4.	THE WELL construction deficiency is described as follows:	
O5.	THE WELL a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.	
	b.	
D6. [Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well record is filed with the Department and approved by the Enforcement Section and the Groundwater Section.	nstruction
THIS	SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
07. [Well construction deficiency has been corrected by the following actions:	
	(Enforcement Section Signature)	_, 200

Application G-17359_____continued

Date______May 17, 2010

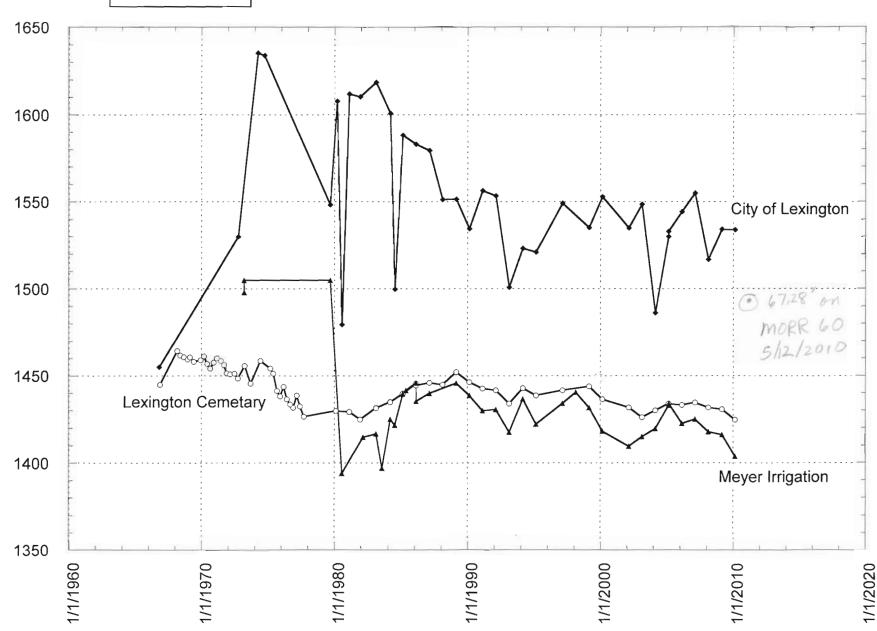






Water Level Elevation (Feet Above Sea Level)

UMATILLA BASIN GROUND WATER STUDY WELLS LOCATED NEAR HEPPNER, OR



MORR 60 MORR 3200 Willow Creek 1600 BrokenRock Bosalt 51 on 7/6/77 1500 brokenbasalt broken besset - clay 116 2/23/2010 Broken besald 180 Porous basalt -7/3/79 Black basalt Broken or Porous Basalt Black basalt Broken Bosalt Black basalt Black basut praken

