EMERGENCY DROUGHT APPLICATION: GROUNDWATER REVIEW

TO: FROM:			Rights So		Joe Kemper					8/12/2024				
SUBJE	ECT:	Applic	cation G-	_19447_		Revi	iewer's Name							
DROU	GHT N	• •		GROUND	WATER									
This revemerger availabidrought	view is b ncy requ lity, stab permit f	ased on est for ility of the or short-	authoritie groundwat he ground term emen	s laid out ir ter use for water resour gency use p	one season one season rce, and surrovided that	n under a face water at there is	Governor's and Scenic no injury an	ion rules. The description of the second that the use cypolicies in	eclaration. onsideration e is within	Notwiths is, the Dother the public	standi eparti ic inte	ing groui ment may erest as p	ndwater issue a er OAR	
A. <u>GE</u> I	NERAL	INFO	RMATI(<u>)N</u> : A	pplicant's N	Name:	Broken To	p Family Fa	rms	_ Cour	nty: _	Jefferso	<u>n</u>	
A1.	Applica	nt(s) see	ek(s) <u>1.75</u>	5 cfs from	m <u>1</u>	well(s) in the <u>Deschutes</u>				Basin,				
	Lower Crooked subbasin													
A2.	Propose	ed use	Sup	plemental I	rr. (140.12 a	ac) Seas	sonality: <u>8</u>	/2/2024 to 10	0/31/2024					
A3.	Well an	d aquife	r data (att	ach and nu	mber logs f	for existin	ng wells; ma	rk proposed	l wells as s	uch und	er log	gid):		
Well	Log	gid	Applican Well #		Proposed Aquifer*		posed e(cfs)	Location (T/R-S QQ-Q)		Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36				
1 2	JEFF 5	JEFF 51763			Volcanics		.75	12S/12E-34 SE SW		170' N, 2550' E fr SW Cor S 34				
	um, 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)	Perforation Or Scree (ft)	ns Y	Vell ield pm)	Draw Down (ft)	Test Type	
1	2820	NA	745	6/23/2023	985	0-71	0-898	NA	None		200	NA	Air	
A4.	Commo	e nts: <u>Tł</u> 90-505						hutes Ground	l Water Stu	dy Area	as de	fined in r	ules	
в. <u>СК</u> В1.	Is there of the d	informa rought d Study Ar eponder	tion that the claration to the contraction to the c	nis drought § ? (□ Yes) (፮ 590-505-060	groundwate ☑ No) If ye 00) and hyd	r use will es, explain raulically-	injure senion: Although connected to	or spring or a the proposed o surface wat water rights	POD is wi er within th	thin the l	Desch utes E	nutes Gro Basin, the	und re is	
B2.	drought	declara	tion? (□Y		If yes, exp	lain: T <u>he j</u>	proposed gro	or groundwa oundwater us	_	-				
В3.						_	-	source. Comi oposed use ex						

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B4. There (\(\simega\) is not) a preponderance of evidence that the proposed short-term emergency groundwater use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway. Comments: OAR 690-505-0600 states that "ground water appropriations within the Deschutes Ground Water Study Area...will measurably reduce scenic waterway flows as defined in OAR 380-835 unless mitigation is provided".

B5. **Proposed Permit Conditions:** *If a permit is issued, include:*

Condition 7B (Interference Condition): Drought permits are junior to existing water rights and are subject to regulation

Condition 7P (Well Tag): If there is no existing OWRD Well ID Tag on the well, one shall be attached

<u>Large Water Use Reporting Condition</u>: totalizing flowmeter and reporting required. Include condition that "the readings must be reported to the Department by December 31, 2024."

Special Condition - Regulation: "Groundwater pumping under this permit shall discontinue or be reduced if area wells with permanent primary and/or supplemental groundwater rights are being regulated off due to groundwater level decline or interference with senior water rights unless the Department determines no action is necessary (pumping under this permit can continue) because the groundwater resource can sustain continued groundwater pumping without causing substantial interference with senior water rights."

Special Condition – Static Water Level Measurement Access: The permittee shall allow Department staff, upon reasonable notice, to access the permitted well(s) during the period of use to take static water level measurements to monitor the impact of use on the resource. To ensure accurate measurements, the permittee may be required to stop use of the well for up to 24 hours before a water level measurement.

B6. References Used:

Gannett, M. W., Lite Jr, K. E., Morgan, D. S., and Collins, C. A., 2001, Ground-Water Hydrology of the Upper Deschutes Basin, Oregon, USGS Water-Resources Investigations Report 00-4162, 74 p., https://pubs.usgs.gov/wri/wri004162/pdf/WRIR004162.pdf

Lite, K. E. and Gannett, M. W., 2002, Geologic Framework of the Regional Ground-Water Flow System in the Upper Deschutes Basin, Oregon. USGS Water-Resources Investigation Report 02-4015, 44 p., https://pubs.er.usgs.gov/publication/wri024015

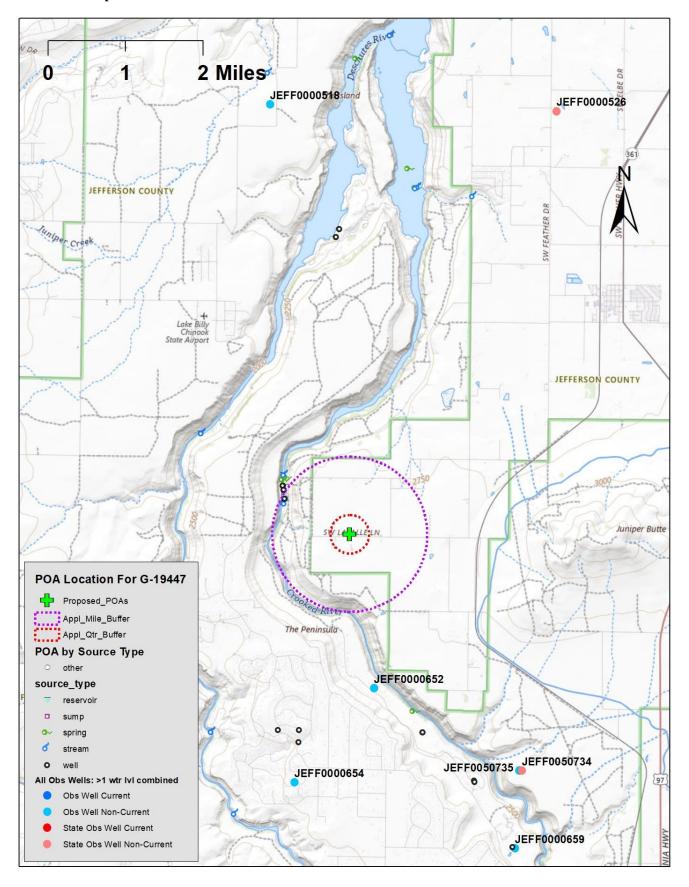
Gannett, M. W. and Lite, K. E., 2004, Simulation of Regional Ground-Water Flow in the Upper Deschutes Basin, Oregon, USGS Water Resources Investigation Report 2003-4195, 84 p., https://pubs.er.usgs.gov/publication/wri034195

Gannett, M.W., Lite, K.E., Jr., Risley, J.C., Pischel, E.M., and La Marche, J.L., 2017, Simulation of groundwater and surface-water flow in the upper Deschutes Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2017–5097, 68 p., https://doi.org/10.3133/sir20175097.

Sherrod, D. R., Taylor, E. M., Ferns, M. L., Scott, W. E., Conrey, R. M. and Smith, G. A., 2004, Geologic Map of the Bend 30-x-60-Minute Quadrangle, Central Oregon. U. S. Geological Survey Geologic Investigations Series Map I-2683. 49p., https://pubs.usgs.gov/imap/i2683/

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Well Location Map



Water-Level Measurements in Nearby Wells

