

# Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE # # G-17474

ROUTED TO: Water Rights

TOWNSHIP/

RANGE-SECTION: 5S/4W-31

CONDITIONS ATTACHED?:  yes  no

REMARKS OR FURTHER INSTRUCTIONS:

See conditions on page 5, Section  
65. Also note remarks in  
Section A5.

Reviewer: Karl Wozniak



# PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO: Water Rights Section Date November 9, 2011

FROM: Ground Water/Hydrology Section Karl Wozniak  
Reviewer's Name

SUBJECT: Application G- 17474 Supersedes review of \_\_\_\_\_  
Date of Review(s)

## PUBLIC INTEREST PRESUMPTION; GROUNDWATER

**OAR 690-310-130 (1)** *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

**A. GENERAL INFORMATION:** Applicant's Name: Robert L. & LeAnn R. McKee County: Yamhill

A1. Applicant(s) seek(s) 0.13\*\*\* cfs from 1 well(s) in the S. Yamhill River Basin,  
Salt Creek subbasin Quad Map: Amity

A2. Proposed use Reservoir Storage Seasonality: March 1 -- October 31

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	Drain Tiles*				5S/4W-31 NWSE	350' S, 400' E fr C1/4 cor S 31**
2						
3						

\* Alluvium, 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

Use data from application for proposed wells.

A4. **Comments:** \* Per Leland Hardy, PE & CWRE for the project, the proposed POA is a group of drain tiles, installed many years ago, that currently drain a field to the west that currently has no irrigation rights on it and is planted with grass. At present, the drain tiles have an outlet down slope from the reservoir site and flow into an unnamed drainage that is tributary to Salt Creek. The development plan is to intercept multiple drain tiles at the flow of the proposed upper reservoir site (application R-87735) which will allow passive inflow of drain tile water into the reservoir. According to Mr. Leland, the drain tiles generally only flow from October through May. He estimates that the average flow from the drain tiles to the reservoir will be 6 gpm with a total inflow of 6.4 acre feet per year assuming 240 days of flow from October 1 through May 30. Other assumptions that went into this estimate are unknown.

\*\* The location in table A3 represents the base of the upper reservoir proposed on application R-87735. No formal location was given for the POA itself which, hydrologically, is the entire drain tile field (the entire area over which groundwater is captured from the groundwater system).

\*\*\* The application indicates that the average drain tile flow rate is estimated to be 6 gpm, equivalent to 0.13 cfs. Peak rates during the winter months may be greater.

Seasonality was assumed to be from March 1 through October 31.

A5.  **Provisions of the Willamette** Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water  are, or  are not, activated by this application. (Not all basin rules contain such provisions.)

Comments: Portions of the drain field are assumed to be located less than 1/4 mile from Salt Creek (no map of the drain field was provided). Drain tiles are designed to drain groundwater from the water table. Since the water table, by definition, is unconfined and resides, in this case, in alluvial sediments, the pertinent basin rules (OAR 690-502-0240) are applicable.

A6.  Well(s) # \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: \_\_\_\_\_  
 Comments: \_\_\_\_\_





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?
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

**Comments:** Since drain tile water would discharge instantaneously to Salt Creek if no water was diverted from the drain tiles, stream depletion will be 100% of the diversion rate whenever diversions are made from the drain tiles.

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-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(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.

**Basis for impact evaluation:**



**D. 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 \_\_\_\_\_;  
c.  report of CWRE \_\_\_\_\_;  
d.  other: (specify) \_\_\_\_\_

D3. **THE WELL construction deficiency:**  
a.  constitutes a health threat under Division 200 rules;  
b.  commingles water from more than one ground water reservoir;  
c.  permits the loss of artesian head;  
d.  permits the de-watering of one or more ground water reservoirs;  
e.  other: (specify) \_\_\_\_\_

D4. **THE WELL construction deficiency is described as follows:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D5. **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.  I don't know if it met standards at the time of construction.

D6.  **Route to the Enforcement Section.** I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.

**THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL**

D7.  Well construction deficiency has been corrected by the following actions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_, 200\_\_\_\_\_  
(Enforcement Section Signature)

D8.  **Route to Water Rights Section (attach well reconstruction logs to this page).**



## Water Availability Tables

SALT CR > S YAMHILL R - AT MOUTH  
WILLAMETTE BASIN

Water Availability as of 11/9/2011

Watershed ID #: 73562

Exceedance Level: 80%

Date: 11/9/2011

Time: 3:53 PM

## Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second

Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	345.00	16.80	328.00	0.00	0.40	328.00
FEB	295.00	14.50	280.00	0.00	0.40	280.00
MAR	239.00	12.20	227.00	0.00	0.40	226.00
APR	142.00	4.93	137.00	0.00	0.40	137.00
MAY	59.70	6.66	53.00	0.00	0.40	52.60
JUN	28.00	15.50	12.50	0.00	0.40	12.10
JUL	19.90	19.30	0.62	0.00	0.40	0.22
AUG	10.20	15.50	-5.28	0.00	0.40	-5.68
SEP	9.68	7.78	1.90	0.00	0.40	1.50
OCT	13.30	1.21	12.10	0.00	0.40	11.70
NOV	53.50	3.77	49.70	0.00	0.40	49.30
DEC	314.00	15.40	299.00	0.00	0.40	298.00
ANN	92,000.00	8,060.00	84,200.00	0.00	290.00	84,000.00

### G-17474, McKee

