IR CHECKLIST

Application #: G-16840 Applicant: ELSIE FRASER FRASER FAMILY REVOCABLE TRUST B

Use(s): IRRIGATION USE ON 39.0 ACRES Priority Date: APRIL 27, 2007 □ Fujii reviewed recommendations ___ Λ Is the application complete? \square No Ω Yes ORS 538 prohibits use ANO - Yes If so, do not do an IR; return the application & fees to the applicant. <u>X</u> DIV 9 □ NA □ will likely be available... □ will **not** likely be available... **D** will, if properly conditioned... well has PSI with □ classify as surface water (include basin map if true) well _____ is within □ 1N 3E 20, 21, 28, 29 □ GWLA □ CGWA ____ GW conditions 7b, i large totalizing J DIVISION 33 D NA □ above Bonneville, and □ not allowed 4/15 - 9/30 □ No □ below Bonneville □ statewide SW Availability □ NA □ 80% live □ 50% storage ____ WID: □ Use DWF's nonstandard W/A memo if the source is a Drews Reservoir tributary; the Snake River; the Columbia River; the North Umpqua River below Rock Creek; or within the drainages of the Lost River, Chehalem Creek, or Champoeg Creek (including Mission & Case Creeks) POU conflict □ NA □ No □ No, different sources □ No, make up a deficiency in rate □ No, existing not at max. rate Use is supplemental, checked for primary rights w/ diff source SNA □ Yes limits Use is \$\forall \text{allowed} □ not allowed □ limited □ OAR □ Compact Requested Use/Rate/Season (1. / 249 Allowed Use/Rate/Season W / MWWW 1/80-31: ,49 / Whit Oct 3 / Limit / Duty 2.5 ____Land use → approved □ not approved □ being pursued □ county notified □ NA Storage contract □ HAA □ BOR □ Doug Co □ Corp of Eng □ needed □ obtained ______ Medium > 0.1 and < 1.5 CFS, > 9.2 and < 100AF, □ Large > 1.5 CFS, > 100 AF \square Small < 0.1 CFS, < 9.2 AF, Use at least "Medium" when the source is Siltcoos Lake, Sandy Basin GW, or stored water with a contract. Use "Large" for temp control (including NU), or HC above a SWW, Tenmile Lake, or if applicant is a government entity Use "Large-7g" or "Large-7i" if GW recommends 7g or 7i Use "Large with totalizing flow meter" for IR permits in South Salem Hills or IR over 10 Ac. in Stage Gulch CGWA <u>► Stream is withdrawn</u> INO □ Yes, allows use/season Basin Maps have been checked ♥NA □ Yes limits _____ →SWW □ NA □ above □ within _______ (If GW and interference, copy form for Stahr.)

The is within a high nulcuity area	for streamflow restoration. It NA	D Vec
	for streamflow restoration NA DNA	
•	nited □ bad □ bad w/ rate reduction of	
POD is within North Umpqua set	tlement reach and the spreadsheet was updated	ated ≰2 NA □ Yes
Forms □ NA □ DIV 33 □ basin	n map □ HC except □ spring description	other
□ NCR □ a	CWRE DOA DOA DOA State Parks	CRIFC US Fish & Wildlife NW Planning Council CTUIR
	ents	nent □ plans/specs □ evidence of well repair
	(If not, send IR certified)	
E-mailed Tim, including note if ne	gative? □ No □ Yes	
Fees Of CFS	Base	<u>sa</u>
AF	Up to 1 CFS	Zv
	Add'l CFS @	
	Up to 20 AF	
	Add'l AF @	
		use +
	Exam Fee R	- 47
	Exam Fee P	707
	Still Owed	

Application #: G-16840 Applicant: ELSIE FRASER FRASER FAMILY REVOCABLE TRUST B

Name: Brook Geffen Date: 5/23/2008 Peer Reviewer: The purpose of this checklist is to be used as a working document by Department staff to aid in the production of the related Initial Review, Proposed Final Order, or Final Order. It is not intended to be a complete record of all factors which were considered to produce the document, nor is it intended to serve any purpose other than that stated above. The related Initial Review, Proposed Final Order, or Final Order is intended to stand alone as the record of factors considered in its production.

Water Right Conditions Tracking Slip
Groundwater/Hydrology Section FILE # # 6-16840
ROUTED TO: W, R
TOWNSHIP/ RANGE-SECTION: 18/4W-1/BB
CONDITIONS ATTACHED?: [1 yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: Man A Notas

WATER RESOURCES DEPARTMENT

MEM	O				May 12, 200 8							
TO: FROM	м:	Application G- 16840 GW: Man a Norto (Reviewer's Name)										
SUBJ	ECT:	Scenic	Water	way In	terferei	ice Eva	luation					
	YES NO	The so	ource of	appropi	riation is	s within	or abov	ve a Sce	nic Wat	terway		
	YES _NO	Use th	e Scenic	e Water	way cor	ndition (Conditi	on 7J)				
	interfe calcula Per OF interfe the De that th	rence wated intended into the control of the contro	ith surfarferences 835, the ith surfarent is urosed us	ace wate e is dist Ground ace wate nable to e will m	d Water er that c ributed b d Water er that c o find the reasura	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 repondo surface	Waterwa deulate vaterwa erance (e water	ground ground y; there of evide flows	water	
Calcula calculai informii	te the per ted, per c ng Water	centage e riteria in Rights th	390.835, at the De	iptive use do not fii partment	CE by month lin the to is unable o reduce	able but c to make	heck the a Prepon	"unable" derance (option a	hove, thu ce finding	S	
			owing and low is re		express	ed as a p	proporti	on of th	e consu	mptive	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 Se	ction				Date	e <u>May 12</u>	, 2008		
FROM	:	Grou	nd Water/H	ydrology	Section_		Norton					
SUBJE	CT:	Appli	cation G	16840			Reviewer's Name Supersedes review of November 6, 2007 Date of Review(s)					
oar 69 welfare, to deter the pres	90-310-1 safety at mine who umption	30 (1) and heal ether the criteria	<i>th as describ</i> e presumptio	ent shall p ed in ORS in is establi v is based	oresume the 537.525. I ished. OAI upon avai	at a propos Departmen R 690-310- ilable infor	ed groundw t staff review 140 allows t mation and	v ground wate he proposed	ensure the preser applications use be modifie cies in place a	under OA d or condi	R 690-31 tioned to e of evalu	0-140 meet ation.
A1.								Willamette				Basin,
			n River – D					ıad Map: G				
A2.			Irrig		_			March1 -				
A3.	Well an	d aquif	er data (atta	ch and nu	mber logs	for existin	ig wells; ma	rk proposed	wells as such	under log	gid):	
Well	Logi	id	Applicant's Well #		oposed quifer*	Propos Rate(c		Location /R-S QQ-Q)		n, metes a N, 1200' E		
1			1	_	CRB	0.488		4W-11 NW N		S, 770' E f		
3												
4						-						
5												
* Alluviı	ım, CRB,	Bedrock	•									
Well	Well Elev ft msl	First Water ft bls	f 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	195		?		550+	400+/-	400+/-					
				_								
Use data	from app	lication	for proposed	wells.					_			
A4. 219 gpn	Comme n = 0.488	ents: <u>Se</u> B cfs. A	e conceptus applicant lis	il model d ted well lo	iscussion f ogs WASH	for more d 6640 & 6	etails on ge 644 as exan	ology and gr	ound water. I	PROPOS esian pres	ED WEL	<u>L</u>
									_			
	-		_			_						
A5. 🛛	manage (Not all Comme	ment of basin r nts:	f ground wat ules contain	er hydrauli such provi roposed w	cally conn sions.) vell constr	ected to sur uction and	rface water aquifer, th	□ are, or ⊠ e well will pr	o the developn are not, active	confined	nis applica aquifer,	and/or ation.
A6. 🗌	Name o	f admir	nistrative are	a: <u>NA</u>				ap(s) an aquif	er limited by a	administ	rative res	triction.

Version: 08/15/2003

B. <u>GR</u>	<u>ROUI</u>	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070								
B1.	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.	is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;								
	c.	will not or 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.								
B2.	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 ground water reservoir between approximately ft. and 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):								
B3.	(See is refined in dispersion of the see is refined in the sec is	ound water availability remarks:There are five wells with water level data near the applicant's proposed site e attached map). The water levels have declined about five to twenty feet since the mid 1990s. Some of the decline elated to reduced precipitation — less water available for recharge. One well was found that had been deepened. e basalts are at least 700 feet thick in a nearby well (WASH 6536). Ground water levels reported on the well logs icate flowing artesian conditions to over 200 feet deep. There were also wells not completed in CRB (marine iments or alluvial). Well yields range from about 10GPM to 500GPM; most less than 100 GPM. Given the iability of the data, water level elevations from the nearby wells are similar, about 195 feet above sea level. My opinion, permitting a new use of about 220 GPM will increase the rate of decline in CRBG wells in the area. Beer is likely to be interference with neighboring wells. The amount of interference between wells is difficult to dict. Interference can extend out several thousand feet from the pumping well. There are several wells within a 1/4 mile from the pumping well; the closer the well, the greater the amount of interference.								

____ continued

Date_

November 8, 2007

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Version: 08/15/2003

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	CRBG		

Date

Basis for aquifer confinement evaluation:	Proposed aquifer and well construction should have the well tapping a
confined aquifer.	

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	Lousignont Creek	195	165	1410		
	2	West Fork Dairy Creek		175	3060		
					_		

Basis for aquifer hydraulic connection evaluation: <u>Proposed well construction is +/- 400 feet of casing and seal; this should greatly minimize impact to the local streams.</u>
Water Availability Basin the well(s) are located within: _W FK DAIRY CR > DAIRY CR - 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 < ¼ 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?
				_						

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?

Comments:	Proposed we	ll construction	is +/- 400 feet o	f casing and se	al; this should gre	atly minimize imp	act to the
local streams.							

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												
	uted Well						_			-	_		_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	<u>%</u>	%	%	%	%	%	<u>%</u>	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
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												
(A) = To	tal Interf.												
. ,	% Nat. Q												
	% Nat. Q												
(D) = (A)>(C)	1											
$(\mathbf{D}) = (\mathbf{A})$	/B) x 100	%	%	%	%	%	%	%	%	%	%	%	%
(£) – (A	/ 13) X 100		, 0	. •		,,		. 5		, •	. •		. •

(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.

Appno	cation G-16840Continued DateNovember 8, 200
	Basis for impact evaluation:
₿b.	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Wa
5. [If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water u under this permit can be regulated if it is found to substantially interfere with surface water: i. The permit should contain condition #(s)
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;
	W / GW Remarks and Conditions At this time, where the ground water in the Columbia River Basalts discharges to a surface water bodies. Because the streams are not deeply incised, there is little potential for impact to surface water.
_	
_	
_	
_	
_	
-	
_	
_	
R	eferences Used: See conceptual model discussion for more details.
	annett and Caldwell, 1998, Geologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington, USG: rofessional Paper 1424-A
	Voodward, Gannett and Vaccaro, 1998, Hydrogeologic Framework of the Willamette Lowland Aquifer System, Oregon and Vashington, USGS Professional Paper 1424-B
	Valton, William, 1962, Selected Analytical Methods for Well and Aquifer Evaluation, Bulletin 49, Illinois State Water esources.
F	reeze and Cherry, 1979, Groundwater, Prentice-Hall, Inc.
\mathbf{C}	onlon and Others, 2005, Ground-Water Hydrology of the Willamette Basin, Oregon, Scientific Report 2005-5168, USGS.

D1.	Well #:	Logid:	
D2.		oes not meet current well construction stands	rds based upon:
		of the well log;	
	b. I field	of CWRE	
	d. dother:	(specify)	
D3.	THE WELL	onstruction deficiency:	
23.		tutes a health threat under Division 200 rules;	
	b. 🔲 comn	ingles water from more than one ground water re	eservoir;
	c. perm	ts the loss of artesian head;	
		ts the de-watering of one or more ground water r	
	e other	(specify)	
D4.	THE WELL	onstruction deficiency is described as follows	
	_	-	
D5.	THE WELL	a. was, or was not constructed accordinal construction or most recen	cording to the standards in effect at the time of modification.
		b. I don't know if it met standards at	he time of construction.
D6.		Enforcement Section. I recommend withholding Department and approved by the Enforcement	g issuance of the permit until evidence of well reconstruction Section and the Ground Water Section.
THIS	S SECTION TO	BE COMPLETED BY ENFORCEMEN	T PERSONNEL
D7.	Well construct	on deficiency has been corrected by the following	g actions:
	-		
			200
	(Enfo	rement Section Signature)	, 200

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Date November 8, 2007

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION Water Availability as of 11/6/2007 for W FK DAIRY CR > DAIRY CR - AT MOUTH

Watershed ID #: 178 Basin: WILLAMETTE Exceedance Level: 80
Time: 16:08 Date: 11/06/2007

Month	Natural Stream	Consumptiv Use and	Expected Stream	Reserved Stream	Instream Require-	Net Water
İ	Flow		Flow	Flow	ments	Available
1	136.00	14.50	121.00	0.00	30.00	91.50
2	183.00	15.40	168.00	0.00	30.00	138.00
3	153.00	14.20	139.00	0.00	30.00	109.00
4	88.90	13.60	75.30	0.00	30.00	45.30
5 j	35.90	19.30	16.60	0.00	30.00	-13.40
6	17.20	21.50	-4.24	0.00	10.00	-14.20
7	5.34	25.50	-20.10	0.00	3.00	-23.10
8	4.03	23.40	-19.40	0.00	2.00	-21.40
9	4.21	17.70	-13.50	0.00	2.00	-15.50
10	5.68	11.90	-6.21	0.00	10.00	-16.20
11	5.26	11.90	-6.67	0.00	30.00	-36.70
12	78.60	14.60	64.10	0.00	30.00	34.10
Stor-50%	104000	12280	94400	0	14300	83200

Conceptual Model -- Generalized Ground Water Flow Systems. Marc Norton January 8, 2004

Based on:

OWRD GRID - Ground water Resource Information Distribution

OWRD Ground Water Database

Memo on Recommended Vertical Hydraulic Conductivity Values for the Willamette Silt Hydrogeologic Unit When Using the Hunt Analytical Model, Karl Wozniak, January 6, 2004.

Ground-Water Resources of the Willamette Valley, Oregon, 1942, Water-Supply Paper 890, Piper.

Hydrogeologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington, 1998, US Geological Survey Professional Paper 1424 B, Woodward, Gannett, and Vaccaro.

GENERALIZED GEOLOGY

The Willamette Lowland in Oregon and Washington encompasses 3,700 square mile and includes the low-lying parts of the Willamette Valley in Oregon and most of Clark county in Washington. About 70% of the population of Oregon and Clark County reside in the lowlands. The lowland is 145 miles long and averages 10 to 15 miles in width. Water is recharged to the Willamette Lowland aquifer system primarily through the direct infiltration of precipitation on the lowland. The regional water-table map shows an overall pattern of groundwater flow to the major streams, indicating that the base flow of these streams is sustained by ground water

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Date	November 8, 2007

discharge. This ground-water discharge fully supports the base flow of streams that head in the lowland and partially support the base flow of the other streams.

HYDROGEOLOGIC UNITS

The aquifer system is composed of five hydrogeologic units, from oldest to youngest:

- 1) the basement confining unit,
- 2) the Columbia River basalt aquifer,
- 3) the Willamette confining unit,
- 4) the Willamette aquifer, and
- 5) the Willamette silt unit.

The basement-confining unit forms the lateral and basal boundary to the Willamette aquifer system. The basement-confining unit includes all the stratigraphic units that underlie either the Columbia River Basalt Group in the northern part of the basin or the basin-fill deposits in the southern part. The unit is composed of marine sedimentary rocks and volcanic rocks of the Coast and Cascade ranges. The basement-confining unit is generally a low yielding aquifer where wells develop water primarily from fractures in the rock. Ground water can be found under unconfined conditions in the highlands and under confined conditions with greater depth and lower elevations. Yields are generally less than 10 gpm and usually decrease over time. The deeper the well, the greater the chance of brackish water being encountered.

The Columbia River basalt aquifer overlies the basement-confining unit and consists of layers of basalt flows of the Columbia River Basalt Group. The thickness of the aquifer generally is several hundred feet but locally is as much as 1000 feet. Ground water in the basalts is generally under confined conditions except in the foot-hills where they may be unconfined. Well yields vary from tens to hundreds of gallons per minutes. Brackish water has been encountered in several areas, particularly with depth.

The Willamette confining unit consists primarily of fine-grained, distal alluvial fan and low-gradient stream deposits. The fine-grained deposits are considered a regional confining unit because of their wide spread occurrence and low permeability. Ground water in the Willamette confining unit is generally under confined conditions and well yields are very low to "dry".

The Willamette aquifer consists primarily of coarse-grained proximal alluvial-fan and braided-stream deposits. The greatest thickness, and coarsest materials of the Willamette aquifer outside of the Portland Basin occur in six major alluvial fans that were deposited where major streams from the Cascade Range enter the Willamette Lowland. Ground water in the Willamette aquifer unit varies from unconfined to confined conditions, depending on location and depth. Vertical gradients are usually downward except near major streams. Deposits of lower permeable material can act as a confining layer but are generally of limited aerial extent.

The Willamette silt unit is deposited throughout much of the Willamette Lowland by glacial-outburst floods. The deposits range in thickness from 0 to 130 feet. They consist primarily of silt and fine sand of relatively uniform lithology. Ground water in the Willamette silt unit is generally under unconfined conditions and well yields are low, less than 5 to 10 gpm.

STRUCTURAL BASINS

Outcrops of folded and faulted basalt within the Willamette Valley divide the lowland into four separate areas or structural basins -- from north to south, the Portland Basin, the Tualatin Basin, the central Willamette Valley, and the southern Willamette valley. Each of these areas has decidedly different hydrologic and

Apı	plication G-16840_	continued

hydrogeologic properties. The aquifer system in each basin, although hydraulically connected through a series of restrictive water gaps, is distinctive.

<u>Tualatin Basin.</u> The Columbia River basalt aquifer and the Willamette confining unit are the only regional hydrogeologic units above the basement-confining unit in the Tualatin Basin. The Columbia River basalt aquifer underlies the entire basin, and its upper surface forms a sediment-filled bowl-like depression.

The Central Willamette Valley All five of the hydrogeologic units occur in the central Willamette Valley. The Columbia River basalt aquifer underlies the entire central Willamette Valley, except for small areas along the far eastern margin. A number of faults have been mapped in the central Willamette Valley, some of which offset the aquifer, and numerous other faults have been mapped in the uplands surrounding the basin where the aquifer crops out. The Willamette aquifer in the central Willamette Valley contains three major alluvial fans -- the Salem fan, the Molalla fan, and the Canby fan. The Willamette Silt unit overlies most of the central valley with a maximum thickness of about 130 feet near the center and thins towards the south and near the margins of the basin.

The Southern Willamette Valley In the southern Willamette Valley, all of the regional hydrogeologic units are present; however, the Columbia River basalt aquifer occurs only in the Stayton area. The Willamette confining unit is thinner in the southern Willamette Valley than elsewhere in the Willamette Lowland. The Willamette aquifer contains the Lebanon fan and the Stayton fan. The Willamette aquifer is much thinner (averaging only about 20 to 40 feet thick) between the alluvial fans of the southern Willamette Valley. The Willamette Silt unit covers most of the southern Willamette Valley and generally thin towards the south.

DIVISION 502

WILLAMETTE BASIN PROGRAM

690-502-0160

1. Groundwater Classifications and Conditions

- (1) Use of groundwater from the basalt aquifer within the Cooper-Bull Mountain Critical Groundwater Area shall be as described in the State Engineer's order designating the Cooper-Bull Mountain Critical Groundwater Area dated May 17, 1974.
- (2) Groundwater Classification: The groundwater resources of the Willamette Basin are classified for domestic, livestock, **irrigation** municipal, industrial, agricultural, commercial, power, mining, recreation, fish life, wildlife, pollution abatement, wetland enhancement and statutorily exempt groundwater uses except as described in OAR 690-502-0170 to 690-502-0210.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 536 & ORS 537

Stats. Implemented:

Hist.: Upper Willamette River Basin Program: WRB 8, f. 4-21-59?; WRB 19, f. 6-5-62; WRB 27, f. 5-11-64; WRB 30, f. 7-3-64: WRD 9-1980, f. & cert. ef 11-26-80; WRD 2-1981, f. & cert. ef. 4-30-81; WRD 5-1985, f. & cert. ef. 6-14-85; Middle Willamette River Basin Program: WRB 29, f. 7-1-64; WRB 32, f. 7-27-65; WRB 11-1985, f. & cert. ef. 9-5-85; Lower Willamette River Basin Program: WRB 35, f. 6-10-66; WRB 40, f. 9-6-68; WRB 42, f. 5-1-70; WRB 47, f. 4-30-71; WRB 63, f. 6-5-75; WRD 2, f. 11-5-76; WRD 7-1980, f. & cert. ef. 8-12-20; WRD 1-1980, f. & cert. ef. 12-19-80; WRD 11-1985, f. & cert. ef. 9-5-85, WRD 3-1986(Temp), f. & cert. ef. 3-11-86) WRD 4-1992, f. & cert. ef. 3-13-92, Renumbered from 690-080-0021 - 690-080-0023; WRD 12-1993, f. & cert. ef. 9-9-92; WRD 3-1994, f. & cert. ef. 3-10-94; WRD 13-1994, f. & cert. ef. 11-7-94; WRD 3-2003, f. & cert. ef. 12-4-03

Water Rights Platcard Report

Meridian:	WILLAMETTE	Township: 1	North	Range: 4 W	est -	., s	iection	: 11	: :	Record	la per P	age: ·	200			Sear	ch		
TUAL	ional Info: ATIN VALLEY IRRIGATION 569623	DISTRICT	88 IRRIGATION 52 IRRIGATION	Use ELC Low (QQ(40): Status ELC Low (Q(160): Status EL		NE NE	SW NE	MF 0	I N		S/A: 492	NE SW	NW S		NA SE	AR.		SL Cla	Vickown QQ
VERN Claim Saletz Clain Addit J A Fr Claim	ional info: ION E LYDA S: GR759 mign 3064 4 Lional info: EAZLE II GR3064		950 IRRIGATION	CN 52					(,		20	5.0			40	37.7	#	15	j
L J HE App: Permi	ional Info: EESACKER 517702 ik: 513388 14207	7/10/15	e irrigation	52 gr													1	19.8	
HENR App: Permi Cert:	IODBI INFO: LY LANDAUER \$18264 LI: \$13658 20001 20127 OR CN	6/12/15	50 IRRIGATION	CN 52													5-2	1.0	
L J HE App: Permi Cert:	ional Info; EESACKER S24864 It: S19564 20127	3/10/15	66 IRRIGATION	52						2.2	15.4	18.7	6.9	1		2.7	5.4	•	J.
VERN App: Perm	ional Infos ON E LYDA 541979 IL: 531398 38757 38758 OR *	4/26/15	67 IRRIGATION	52				*		1		2.8		13.6			0.2		
VERN App: Perm	ional Info: ION E LYDA \$43524 It: \$32562 38758 OR *	2/23/1 5	68 IRRIGATION	52								10.7	4 0	.3 1					
VERN App: Perm Cert:	IONAL INFS; ION E LYDA \$44506 III: \$33308 33759	12/19/1	938 IRRIGATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				ı				3.3			26	37.7	++	**	*
L HEE App: Permi Cert:	ronal Info: ESACKER S17702 (t: S13388 39604	12/19/1	938 IRRIGATION	CN 52					1						*			•	
EUGE App: Perm	ional Info. NE VANDEHEY \$17702 III: \$13388 49749 53836 OR *	5/2/197	7 IRRIGATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					4	37.6	8			+					
EUGE App: Perm Cert:		7/18/11	78 - TRAIGATION	5	13.2	28.9	25.3	36.4	15	•								4.8	
VERN App; Perm Cert:	Nonel Info: ION E LYDA 957668 III: \$43350 61142	12/19/1	938 IRRIGATION	52								1.5				1.4			
	cional Info: DEHAY FARMS INC.															ļ			

	App: S17702 Permit: S13388 Cert: 81270																
Select	Additional Info: TUALATIN VALLEY WATER DISTRICT App: \$71651	6/3/1991	MUNICIPAL USES		• •	•				•	•	•	•	•		•	
Select	Permit: \$40615 * Additional Info: CITY OF FOREST GROVE App: \$54203 Permit: \$40615	4/28/1976	MUNICIPAL USES		•	•		•	. .	•	•	•	•	•	•	•	
Select	Additional Info: MELVIN LLOVE App: R35709 Permit: R3264 Cert: 35051	5/6/1963	STORAGE														
	Additional info: MELVIN L LOVE App: R38709 Permit: R3264 Cert: 35051	5/6/1963	STORAGE	2								•					
Select	Additional info: VERNON E LYDA Apps R41972 Permit: R4775 Cert: 38756	3/10/1966 H 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	STORAGE														3.
Select	Cert: \$4215 OR * Additional Info: HENRY/GERTRUGE LANDAUER App: \$56463 Permit: \$42497 Cert: \$4215	8/22/1977	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	52											1	19.8	
Select	Certis1272 CF * Additional Info: VANDENAY FARMS INC. App: S24864 Pennit: S19564 Cert: 91372	6/12/1950 5 Elli	SUPPLEMENTAL IRRIGATION (Suppl'mit)												5.2	1.8	
Select	Cert:81270 CF * Additional Info: VANDEHAY FARMS INC. App: S17702 Permit: S13388 Cert: 81270	12/19/1938	SUPPLEMENTAL IRRIGATION (Suppl'mtl)	52						1.8			26	36.3	14	11	
Select	Certi#3271 CP * Additional Info: VANDEREY FARMS INC. App: \$17702 Permit: \$3388 Cert; \$1271	12/19/1938	SUPPLEMENTAL IRRIGATION (Supplemb)								9.9		14			•	
	Permit: 535792 * Additional Info: U.S. BUREAU OF RECLAMATION App: \$38447 Permit: \$35792		SUPPLEMENTAL IRRIGATION (Suppl'mtl)							3			40	39	19	36	
Acreage	e Legend: 12.25 Regular acreage	12.25 Acreage is on a canceled right	(12.25) Acreage is part up on yet (inche		been prove	n [12.	25] Acre sus	eage ha pended	s been		Acreage specifie						

Point of Diversion Characteristics

Right: App:G 16840 *

Name: FRASER FAMILY REVOCABLE TRUST B ELSIE FRASER

TRSQQ: 01.00N-04.00W-11-NWNW

POD(s): POD 01 - A WELL > LOUSIGNONT CR

County: Washington Basin: Willamette

WM District: 18 WM Region: NW

Withdrawn Area:

WAB: W FK DAIRY CR > DAIRY CR - AT MOUTH (178)

Priority WAB: W FK DAIRY CR @ mouth (178)

Rule 4D: Rules apply

Groundwater Restricted Area:

Scenic Water Way:

Division 33: LOWER COLUMBIA

Water Quality Limited:

Marc Norton

From: Linda Yeoh-Elder [Linda_Yeoh-Elder@co.washington.or.us]

Sent: Wednesday, November 07, 2007 3:02 PM

To: NORTON Marc A

Subject: WASH 6719 and WASH 6550

Hi Marc,

Sorry I couldn't find any records on WASH 1273, 6542 and 6556.

		Date	Water Level
WASH	6719	1/10/2005	60.85
		3/31/2005	56.22
		6/23/2005	57.26
		10/10/2005	78.89
		12/28/2005	65.48
		3/13/2006	58.92
		6/29/2006	76.23
		9/12/2006	99.25
		12/19/2006	72.54
		6/5/2007	74.30

		Date	Water Level
WASH	6550	1/4/2005	23.84
		3/17/2005	18.96
		6/23/2005	19.20
		10/10/2005	38.58
		12/28/2005	15.83
		3/13/2006	17.26
		6/29/2006	34.50
		9/12/2006	40.25
		12/19/2006	19.12
		6/5/2007	22.52

I will check with Cole tomorrow when he comes in and I will let you know what I find out.

Linda Yeoh-Elder Watermaster District 18 1400 SW Walnut St, Ste 240, MS 49 Hillsboro, OR 97123

Office: 503.846.7780, Fax: 503.846.7785 email: Linda_Yeoh-Elder@co.washington.or.us www.or.washington.or.us/watermaster

Marc Norton

From: Linda Yeoh-Elder [Linda_Yeoh-Elder@co.washington.or.us]

Sent: Thursday, November 08, 2007 10:01 AM

To: Marc Norton

Subject: WASH 1273 and WASH 6542

Hi Marc,

We do not have a file on WASH 6556. However, just an FYI, WASH 1273 and WASH 6542 has been dropped so the data that we have only goes back to early 2005 for both those wells.

WASH 1273:

1/4/05: 68.86 3/17/05: 67.17

6/23/05: 66.04

WASH 6542:

1/4/05: 74.58

Hope this helps, *Linda*

Mailing List for IR Copies

Application #G-16840

Original mailed to applicant:

ELSIE FRASER, FRASER FAMILY REVOCABLE TRUST B, 22307 MACFARLANE DR, WOODLAND HILLS, CA 91364

Copies sent to:

2 WRD - Water Availability: Ken Stahr

Copies Mailed

By: [C]

(SUPPORT STAFF)

on: 5/03/08

(DATE)

IR Date: May 23, 2008

IR, Map, and Fact Sheet Copies sent to:

3. WRD -Watermaster # 18

4. Department of Agriculture

Copies sent to Other Interested Persons (CWRE, Agent, Well Driller, Commenter, etc.)

4. Dick Verboort, CWRE #135

COPYSHT.IR

Caseworker: Brook Geffen

REMINDER: Copy all IR's for uses in the Klamath Basin to DEQ and ODFW contacts, regardless of whether they are subject to Division 33. (If they are not subject to Division 33, do not include Division 33 forms.)

STATE OF OREGON PARTMENT

		WAI EN NESCUNCES DEPAN
	87311	725 Summer St. N.E. Ste. A
RECEIPT #	\mathbf{o}	CALES OF 67004 4470

INVOICE # ____ (503) 986-0900 / (503) 986-0904 (fax) RECEIVED FROM: & SIE 1) Fruser, Trustee APPLICATION 6116840 PERMIT BY: **TRANSFER** CASH: CHECK:# OTHER: (IDENTIFY) X7781 TOTAL REC'D \$500.00 1083 TREASURY 4170 WRD MISC CASH ACCT 0407 COPIES \$ __ OTHER: (IDENTIFY) 0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan ____ 0245 Cons. Water _ 4270 WRD OPERATING ACCT **MISCELLANEOUS** 0407 **COPY & TAPE FEES** 0410 RESEARCH FEES MISC REVENUE: (IDENTIFY) 0408 TC162 DEPOSIT LIAB. (IDENTIFY) 0240 **EXTENSION OF TIME** RECORD FEE WATER RIGHTS: **EXAM FEE** 0201 SURFACE WATER 0202 0203 GROUND WATER 0204 0205 TRANSFER LICENSE FEE **EXAM FEE WELL CONSTRUCTION** 0219 0218 WELL DRILL CONSTRUCTOR 0220 LANDOWNER'S PERMIT OTHER (IDENTIFY) 0536 TREASURY 0437 WELL CONST. START FEE WELL CONST START FEE 0211 CARD # 0210 MONITORING WELLS CARD# OTHER (IDENTIFY) __ 0607 TREASURY 0467 HYDRO ACTIVITY LIC NUMBER 0233 POWER LICENSE FEE (FW/WRD) \$ 0231 HYDRO LICENSE FEE (FW/WRD) HYDRO APPLICATION ___ TREASURY OTHER / RDX _____ TITLE ____ OBJ. CODE _ VENDOR # DESCRIPTION

RECEIPT: 873 Distribution - White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

NEW APPLICATIONS (GROUND WATER, RESERVOIR, & SURFACE) ROUTE SLIP

RECEIPTING KD			
POST CARD SENT	Caseworker:		
DATA CENTER		•	
•	Alyssa Mucken	503-986-0853	
GROUND WATER YES NO NO	Anita Huffman	503-986-0815	
ENFORCEMENT YES NO	Brook Geffen	503-986-0808	\searrow
()	Jeana Eastman	503-986-0859	
WATER RIGHTS SUPPORT 🔀 🎢 S	Kerry Kavanagh	503-986-0816	
· · · · · · · · · · · · · · · · · · ·			

A "Standard Reservoir" storing 9.2 acre-feet or more of
Water & has a dam height of 10.0 feet or greater needs to
have a copy of the application & supplemental forms routed to "JOHN FALK"



ATTN: WATER RIGHTS
SUPPORT....>>>> Mark contents of file with
application number;
Update the WRIS Database with caseworkers name.
Route file to Caseworker.

