### **Groundwater Application Review Summary Form**

Application # G- 18588  GW Reviewer Ben Scandella, Dennis Orlowski Date Review Completed: 6112/18
Summary of GW Availability and Injury Review:
[ ] Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.
Summary of Potential for Substantial Interference Review:
$\left[ \checkmark \right]$ There is the potential for substantial interference per Section C of the attached review form.
Summary of Well Construction Assessment:
[ ] The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

## **MEMO**



To:

Kristopher Byrd, Well Construction and Compliance Section Manager

From:

Joel Jeffery, Well Construction Program Coordinator

Subject:

Review of Water Right Application G-18588

Date:

September 24, 2018

The attached application was forwarded to the Well Construction and Compliance Section by Water Rights. Ben Scandella and Dennis Orlowski reviewed the application. Please see Ben's and Dennis's Groundwater Review and the Well Logs.

Applicant's Well #1 (Tabor Well, MULT 1707): Based on a review of the Well Report, Applicant's Well #1 seems to protect the groundwater resource.

The construction of Applicant's Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (Park Well): There is no well report associated with Well #2, therefore, there is no way to determine if the construction of Applicant's Well #2 meets current minimum well construction standards.

My recommendation is that the Department **not issue** a permit for Applicant's Well #2 (Park Well) unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is in compliance with current minimum well construction standards.

Bringing Applicant's Well #2 (Park Well) into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

Applicant's Well #3 (Howell Field Well, MULT 609): Based on a review of the Well Report, Applicant's Well #3 seems to protect the groundwater resource.

The construction of Applicant's Well #3 may not satisfy hydraulic connection issues.

#### PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: FROM	r.		er Rights S	ection ection <u>Benj</u>	amin Scar	ndella De	nnis Orlov		e6/12/	2018_					
PROM	1.	Giot	muwater 5	ection <u>benj</u>	anni Scai		ewer's Name	VSKI							
SUBJE	ECT:	App	lication G-	18588		Suj	persedes re	eview of							
											Date of Rev	view(s)			
DIIDI	IC INT	DEC	T DDECI	MPTION;	CDOUN	DWATE	D								
								ater use will o	onsure the	nrose	rvation o	f the nuh	dic		
								v groundwate							
								the proposed							
								l agency poli							
A. <u>GE</u>	NERAL	INF	ORMATIO					gional Gover	nment. A	ttn: I	Laurie W	ulf			
				Co	ounty:		Multnoma	h							
								******							
A1.	Applica	int(s) s	eek(s) <u>0.5</u>	14 cts froi	n4	well(	s) in the	Willamette					_ Basin,		
	]	Lower	Willamette			subb	asin.								
A2.	Propose	ed use	Irrigation (	(41.2 acres)		Seas	onality: <u>N</u>	March 1 throu	gh Octobe	er 31					
	*** 11		C 1				••					• 10			
A3.	Well an	id aqui	fer data ( <b>att</b>	ach and nu	mber logs i	tor existin	g wells; ma	ırk proposed	wells as	such t	inder log	g(d):			
Well	Logic	1	Applicant	'S Propos	ed Aquifer*	Prop		Location			ion, mete				
			Well #			Rate		(T/R-S QQ			' N, 1200'				
2	MULT 1 Not Ident		1 (Tabor W 2 (Park We		lluvial lluvial	0.5		2N/1W-21 NF 2N/1W-21 NF		2180' N, 2280' E fr SW cor S 21 2360' N, 1950' E fr SW cor S 21					
3	MULT		3 (Howell Fi		lluvial	0.5		2N/1W-21 NE			0' N, 2260'				
	Well)														
4	Propos	-	4	A	lluvial	0.5	14	2N/1W-21 NF	E-SW	2440	0' N, 2500'	E fr SW c	or S 21		
* Alluvi	ium, CRB,	Bearo	CK												
	Well	Firs	t CMI	CWI	Well	Seal	Casing	Liner	Perforat	ions	Well	Draw	Tt		
Well	Elev	Wate	I II his	SWL Date	Depth	Interval	Intervals	Intervals	Or Screens		eens Yield		Test Type		
	ft msl	ft bl	S		(ft)	(ft)	(ft)	(ft)	(ft)		(gpm)	(ft)			
1	40	Unsp		11/10/1964	86	0-20	0-86	N/A	Open Bo	ttom	18	2	2-hr pump		
2	36		26	10/9/2006	88	Unknown	Unknown	Unknown	Unkno	wn					
3	20	64	13	1/24/1992	87	0-68	+1-68	N/A	68-74, 8	0-86	220	<20	1-hr		
4	34	N/A	N/A	N/A	90	0-20	+2-90	N/A	60-9	0	N/A	N/A	air N/A		
			for proposed				1270	1	00 )		1011	14/12	1012		
	11		1 1												
A4.								uvie Island a							
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								of this review							
								<u>ravel layers 6</u> imentary Aqı							
	Well (#2	+) 81100	nu aiso obta	iii groundwa	itel Holli til	ie Officorisc	muaicu seu	mentary Aqu	inei (USA	1) (SW	anson an	u omers,	<u>1993).</u>		
A5. 🛛	Provis	ions o	f the Willan	mette (OAR	690-502)		Basin r	ules relative t	o the deve	elopme	ent. class	ification	and/or		
	manage	ment	of groundwa	iter hydrauli	cally conne	cted to sur	face water	are, or	are not.	activa	ated by th	is applic	ation.		
				n such provi							,	11			
	Comme	ents Th	e applicant'	s wells obta	in/will obta	in grounds	water from a	an unconfined	l aquifer v	vithin	1/4 mile o	f the Mu	tnomah		
							00-502) are	activated. Th	e propose	d use,	irrigatio	n, is class	sified		
	for the	Multno	omah Chann	el (OAR 69	0-502-0150	<u>)).</u>									
🗆	1 *** ***	ш						( )		1	1				
A6	Noma	#	nistration	· , .		,	, ta	p(s) an aquif	er limited	by an	administ	rative res	triction.		
	Commo	nte: N	inistrative ai Vot applicab	lea:											
	Commit	ms. <u>1</u>	or applicab	10											

#### B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

B1.	Bas	ed upon available data, I have determined that groundwater* 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 groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
	b.	$\square$ will not or $\square$ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater 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 groundwater resource; or
	d.	will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:  i.   The permit should contain condition #(s) 7n (annual meas.), large water-used reporting;  ii.   The permit should be conditioned as indicated in item 2 below.  The permit should contain special condition(s) as indicated in item 3 below;
B2.	a.	Condition to allow groundwater production from no deeper than ft. below land surface;
	b.	Condition to allow groundwater production from no shallower than ft. below land surface;
	c.	Condition to allow groundwater production only from the groundwater 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 Groundwater Section.
		<b>Describe injury</b> –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):
D2	C	

B3. Groundwater availability remarks: Wells #1, #2, and #3 obtain groundwater from water-bearing sand and gravel deposits of the Unconsolidated Sedimentary Aquifer (USA), which in this area has a total cumulative thickness of 200-300 feet (Swanson and others, 1993; Conlon and others, 2005). The general coincidence of local groundwater and surface water levels indicates hydraulic connection between the USA and the Columbia River system in this area.

Within approximately 1.5 miles of the proposed POA location there are about 20 wells completed in the alluvial aquifer with mostly irrigation and nursery groundwater rights, as well as a large municipal right, and several more exempt (domestic) wells also in the area. Reported maximum yields in the nearby alluvial wells range up to ~600 gpm, but are more typically on the order of 20-100 gpm.

Groundwater is likely available and not over-appropriated in this area due to the large storage capacity and permeability of the aquifer materials (primarily sand and gravel) and the high rate of recharge (Conlon and others, 2005). Recharge in this unconfined USA system comes from both precipitation and nearby surface water, especially due to the proximity and efficient hydraulic connection to the Multnomah Channel. While groundwater level data for aquifer wells in the area is not available over long periods to definitively determine the current state of the groundwater resource, the nearest well showing long-term data in the sedimentary aquifer system (COLU 3379, more than 10 miles to the north) is also probably hydraulically well-connected with local surface water and shows relative long-term stability for the past 50 years. Despite this conclusion, and because local groundwater data is nearly non-existent, the permit conditions noted in B1(d)(i) are recommended to provide additional information to support future understanding and management of the groundwater resource in this area. If the applicants provide the well log or a well inspection report for Well #2 confirming that it is open to the same aquifer system as the other 3 wells (pending approval from an OWRD hydrogeologist), then due to the high transmissivity of the aquifer system and the close proximity and similar completion of all the wells, it would be sufficient to provide annual water level measurements from any 1 of the 4 wells.

#### 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	Alluvium		$\boxtimes$
2	Alluvium		$\boxtimes$
3	Alluvium		$\boxtimes$
4	Alluvium		$\boxtimes$

Basis for aquifer confinement evaluation: Well logs for Wells #1 and #3, as well as nearby well logs, show water-bearing sand and gravel deposits overlain by 60-80 of low-permeability silt and clay. Locally, the aquifer tapped by some of these wells might be under semi-confined conditions. However, on Sauvie Island the overlying low-permeability deposits are not laterally extensive (Swanson and others, 1993; Conlon and others, 2005; Gannett and Caldwell, 1998). This characteristic, coupled with the efficient hydraulic connection between the USA and the Columbia River system, suggests the USA is generally unconfined.

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 ½ 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)		ydraulio Connect NO AS		Potentia Subst. Int Assum YES	terfer.
1	1	Multnomah Channel	0-5	5-10	1,100'	$\boxtimes$		$\boxtimes$	$\boxtimes$	
2	1	Multnomah Channel	0-10	5-10	700'	$\boxtimes$		$\boxtimes$	$\boxtimes$	
3	1	Multnomah Channel	5-10	5-10	1,100'	$\boxtimes$		$\boxtimes$	$\boxtimes$	
4	1	Multnomah Channel	0-10	5-10	1,230'	$\boxtimes$		$\boxtimes$	$\boxtimes$	
1	2	Gilbert River	0-5	5-10	1,900'	$\boxtimes$				$\boxtimes$
2	2	Gilbert River	0-10	5-10	2,200'	$\boxtimes$				$\boxtimes$
3	2	Gilbert River	5-10	5-10	1,800'	$\boxtimes$				
4	2	Gilbert River	0-10	5-10	1,700'	$\boxtimes$				$\boxtimes$

Basis for aquifer hydraulic connection evaluation: Groundwater elevations were estimated using static water levels in well logs and land surface elevations for Wells #1 and #3, and ranges of likely elevations were assumed based on those for Wells #2 and #4. The similarity of elevations between groundwater and surface water, combined with the high permeability of Willamette Aquifer materials in this area, suggest that the alluvial aquifer is hydraulically connected to SW #1. Furthermore, hydraulic connection was assumed between all wells and SW #1 because all wells are less than ½ mile from the SW#1 and in an unconfined aquifer according to rules.

Water Availability Basin the well(s) are located within: None established

C3a. **690-09-040** (4): Evaluation of stream impacts for <u>each well</u> 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	$\boxtimes$								$\boxtimes$
2	1	$\boxtimes$								$\boxtimes$
3	1	$\boxtimes$								$\boxtimes$
4	1	$\boxtimes$							,	$\boxtimes$
1	2									
2	2									
3	2									
4	2									

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:**

C3a: No WAB applies to the location of the applicant's wells, so they were not evaluated for potential for substantial interference beyond noting those closer than ¼ mile from a surface water source.

C3b: Not applicable because well-specific rates were not specified.

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-D	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Q as CFS												
Interfer	ence CFS												
Distrib	uted Well	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	q
Well (	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	q
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Well (	as CFS												
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		%	%	%	%	%	%	%	%	%	%	%	9
	as CFS												
Interfer	ence CFS												
$(A) = T_0$	tal Interf.												
	% Nat. Q												
$(\mathbf{C}) = 1$	% Nat. Q							57.4 m 5 70.4 55 00 00 00 00 00					
( <b>D</b> ) = (	(A) > (C)	✓	V	1	V	√	4	/	<b>√</b>	√	√	√	
	/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.

C4b.	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.
C5. [	<ul> <li>If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater use under this permit can be regulated if it is found to substantially interfere with surface water:         <ol> <li>i. ☐ The permit should contain condition #(s);</li> <li>ii. ☐ The permit should contain special condition(s) as indicated in "Remarks" below;</li> </ol> </li> </ul>
C6. <b>S</b>	SW / GW Remarks and Conditions:
I	References Used:
<u> </u>	Application file: G-18592
	Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-water hydrology of the Willamette Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2005-5168.

Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-A, 32 p.

Iverson, J., 2002, Investigation of the hydraulic, physical, and chemical buffering capacity of Missoula flood deposits for water quality and supply in the Willamette Valley of Oregon: Unpublished M.S. thesis, Oregon State University, 147 p.

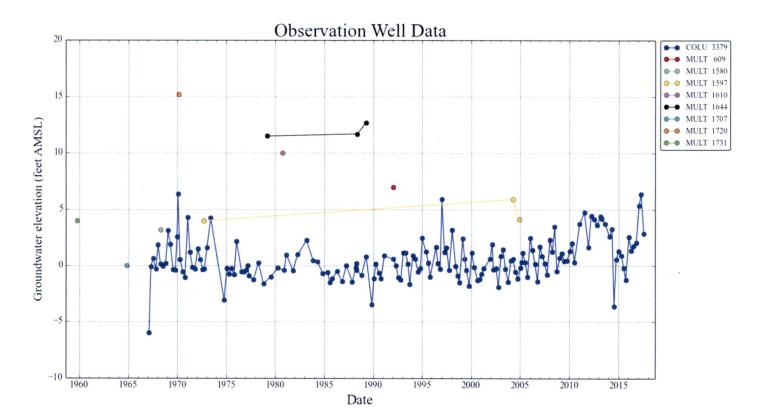
Swanson, R.D., McFarland, W.D., Gonthier, J.B., and Wilkinson, J.M., 1993, A description of hydrogeologic units in the Portland basin, Oregon and Washington: U.S.Geological Survey Water-Resources Investigations Report 90-4196, 56p.

Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

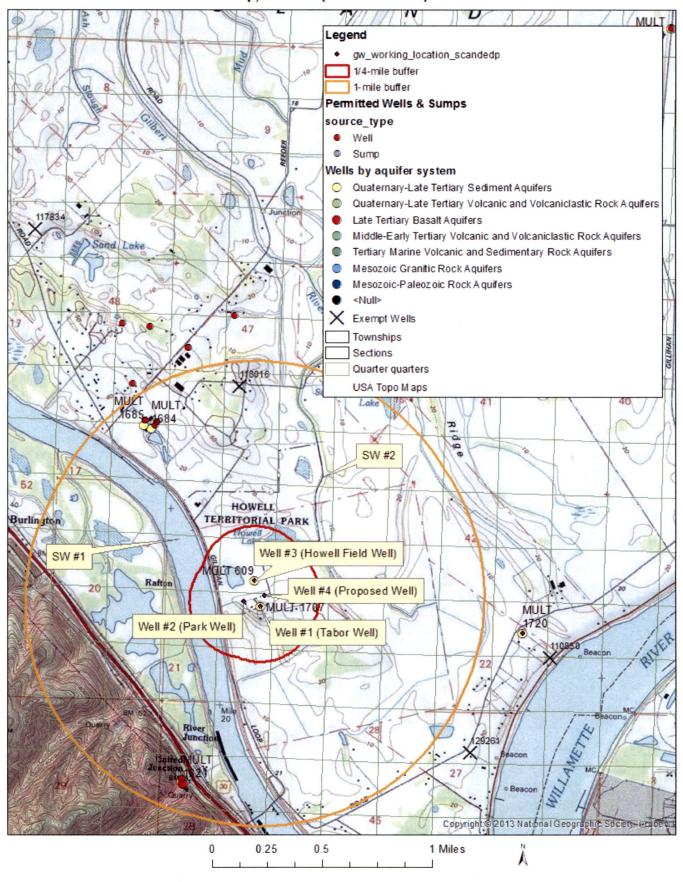
#### D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #:	Logid:
D2.	a.	ELL does not appear to meet current well construction standards based upon: review of the well log; field inspection by
	d.	report of CWRE other: (specify)
D3.	THE W	ELL construction deficiency or other comment is described as follows:
D4. [	Route to	o the Well Construction and Compliance Section for a review of existing well construction.

Water level trends from wells within approximately 2.5 miles of the applicant's well that obtain water from the sedimentary aquifer system, as well as the nearest sedimentary well with a long-term continuing trend (COLU 3379, over 10 miles north).



Well location map, G-18588 (Portland Metro). T2N/R1W - S21



Main

Help

3 Return

Contact Us

#### Search Criteria

Meridian: Willamette

Township: 2

North

Range: 1

West

Section: 21

Records per Page: 100

ch Platcards Maps

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	Water Right	Changing Xfers	Priority	Use	<u>Use</u> Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE		NE NW			SE NW		NW SW			NE SE	NW SE	SW SE	SE SE	
elect	Permit: R 13987 *		3/29/2004	FISH														•	•			J			T
	Additional Info: SUE BEILKE App: R85972 Permit: R13987			CULTURE																					
select	Cert:49880 OR *  Additional Info: SAUVIE ISLAND DRAINAGE DISTRICT	T9272, IL286, T9097	4/5/1950	IRRIGATION		46			37	8.2	23.8	34.6				4.8	8	20.6		24.2	29.7	32.1	33.4	29.7	,
	App: S24574 Permit: S19464 Cert: 49880																								
	Cert:49880 OR *  Additional Info: SAUVIE ISLAND DRAINAGE DISTRICT App: \$24574 Permit: \$19464 Cert: 49880	T9272, IL286, T9097	4/5/1950	IRRIGATION		47			3	7.5	;.1		25.4	17			~				-	4.4	0		
Select	App: G 18588 *		12/7/2017	IRRIGATION							9.5	0.5	6.5	)		16.5	3.6					46			Ī
	Additional Info: METRO REGIONAL GOVERNMENT App: G18588											~													
Select	App: S 71651 WD		6/3/1991	MUNICIPAL USES	WD				÷				÷	÷	÷	<u>.</u>	·		1	·	÷	·	·	÷	Ī
	Additional Info: TUALATIN VALLEY WATER DISTRICT App: S71651									7	~				1	2	8	.5	5	)					
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	Additional Info: MARK FILSINGER App: G11306 Permit: G10455			0020				1		1				(											
Select	App: LL 1082 EX Additional Info:		7/9/2007	MUNICIPAL USES	EX								÷	<u>-</u>	1	÷	÷	سند	-	÷					
	MARK FILSINGER App: LL1082					1																			
Select	Permit: G 8755 *  Additional Info: CITY OF PORTLAND App: G7578		11/12/1976	MUNICIPAL USES										•	•	•	•	•		•					
Calaat	Permit: G8755  Cert:89115 OR *		3/25/1983	MUNICIPAL						_											_				+
Select	Additional Info: MARK FILSINGER App: G10906 Permit: G10124 Cert: 89115		3/23/1963	USES														b							
Select	Permit: G 10124 * Additional Info: MARK FILSINGER App: G10906 Permit: G10124		3/25/1983	MUNICIPAL USES									•	•	٠	•	•		•	•					
Select	Cert:89117 OR *		3/1/1985	MUNICIPAL USES											٠	•		٠							1
	Additional Info: MARK FILSINGER App: G11354 Permit: G10479 Cert: 89117			(Suppl'mtl)																					
Select	Permit: G 10479 * Additional Info:		3/1/1985	MUNICIPAL USES											•	•		٠	•						
	MARK FILSINGER App: G11354 Permit: G10479															/									
Select	Permit: R 13987 *		3/29/2004	WILDLIFE																					T

App: R85972 Permit: R13987

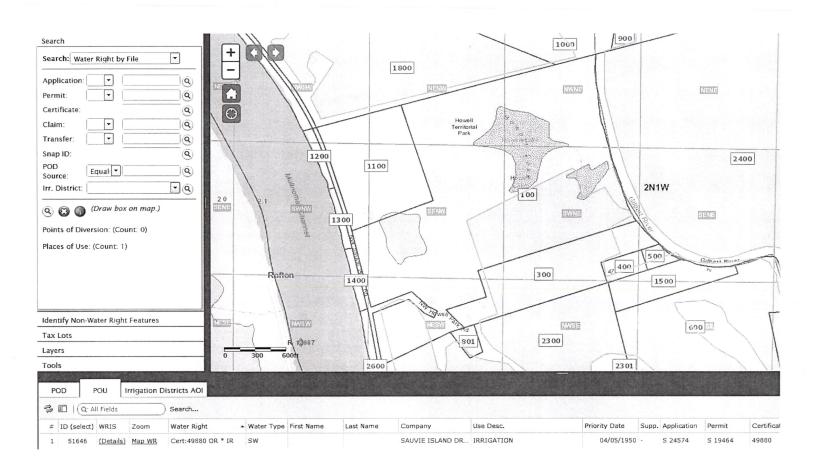
Acreage Legend: 12.25 Regular acreage

-12-25- Acreage is on a canceled right (12-25) Acreage is part of a transfer and has not been proven up on yet (inchoate)

[12.25] Acreage has been suspended

\* Acreage is not specified







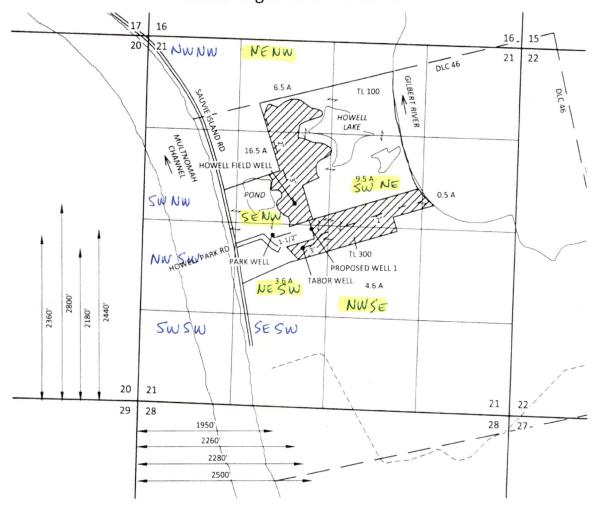
Section 21, T2N, R1W, W.M., Multnomah County, Oregon

RECEIVED BY OWRD

UEC 07 2017

## GROUNDWATER APPLICATION MAP Metro Regional Government

SALEM, OR

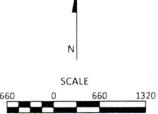


Note: There are primary irrigation rights on Tax Lot 300 held by the Sauvie Island Drainage Improvement District under Certificate 49880. The District has agreed to diminish these rights to supplemental irrigation if a permit is issued (see application documents).

#### **EXPLANATION**

PROPOSED PLACE OF USE
41.2 ACRES

WELL
PIPE



1 INCH = 1320 FEET

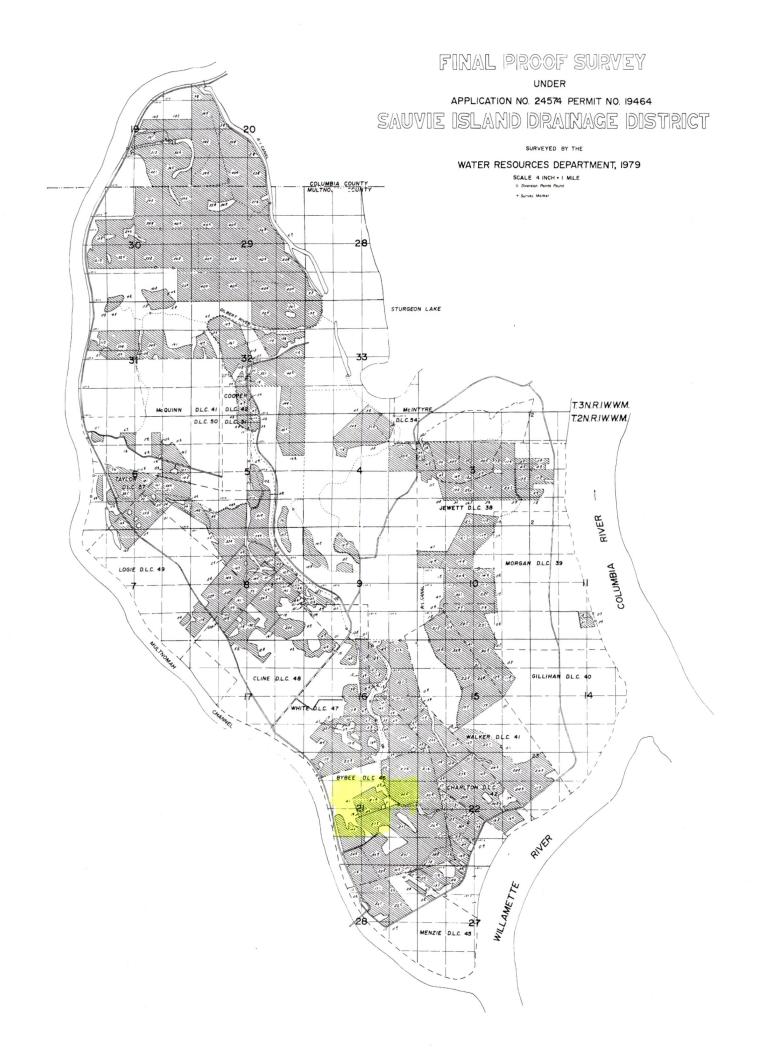
November 7, 2017

This map is not intended to provide legal dimensions or locations of property ownership lines

Figure 1



1626 VICTORIAN WAY EUGENE, OR 97401 (503) 319-8926



NOTICE TO WATER WELL CONTRACTOR WATER WELL REPORT 00170 2N/1W-21 N The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion. State Permit No. Drawdown is amount water level is lowered below static level (11) WELL TESTS: (1) OWNER: Was a pump test made? Yes \( \subseteq \) No If yes, by whom? Name gal./min. with 2 ft. drawdown after PARK (TENSION REGON ANIO ,, (2) LOCATION OF WELL: gal./min. with ft. drawdown after Bailer test 40 hrs. County MULTNCMAN Driller's well number Artesian flow g.p.m. Date SCO 14,5 60 14 Section 2 W.M. Temperature of water 56 Was a chemical analysis made? ☐ Yes 🖄 No Bearing and distance from section or subdivision corner (12) WELL LOG: Diameter of well below casing Sauvier Jalane Depth drilled ft. Depth of completed well Formation: Describe by color, character, size of material and structure, and show thickness of aquifiers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. MATERIAL FROM (3) TYPE OF WORK (check): Son 0 Reconditioning [ Abandon [7] SANDY Deepening [ 4 TROWN pandonment, describe material and procedure in Item 12. SANO BLACK water-(5) TYPE OF WELL: (4) PROPOSED USE (check): Driven [ Rotary [ Domestic 💆 Industrial 🗌 Municipal 🗎 Jetted 🔲 Cable Irrigation | Test Well | Other Bored [ (6) CASING INSTALLED: Threaded [ Welded [ 6 "Dlam. from 0 ft. to 86 ft. Gage 250" .... ft. to ..... .... ft. to ..... (7) PERFORATIONS: Perforated? | Yes | No Type of perforator used Size of perforations in. by in. .... perforations from ...... ... ft. to .. . perforations from ...... perforations from ..... .... perforations from ...... ..... ft. to ..... ..... perforations from ...... Well screen installed? 
Yes No (8) SCREENS: 4.00 Manufacturer's Name .. Model No. ... Slot size ...... Set from ..... Work started 11/6 1964 Completed 11/ Diam. ..... Slot size ..... Set from ..... Date well drilling machine moved off of well (9) CONSTRUCTION: (13) PUMP: CEMENT Well seal-Material used in seal ... Manufacturer's Name Depth of seal 20 ft. Was a packer used? NO Type: SUBMERCIBL Diameter of well bore to bottom of seal ..... Water Well Contractor's Certification: Were any loose strata cemented off? Tyes A No Depth Was a drive shoe used? X Yes ☐ No This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Was well gravel packed? 
Yes No Gravel placed from ...... ft. to ...... NAMETIMERICAN Did any strata contain unusable water? 

Yes X No Type of water? Depth of strata Method of sealing strata off Drilling Machine Operator's License No. (10) WATER LEVELS: ft. below land surface Date | 1 Static level Artesian pressure lbs. per square inch Date

(USE ADDITIONAL SHEETS IF NECESSARY)

MULT

# STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)



JAN 291992

2N//w/2/6d

(START CARD) # 38514

(1) OWNER:	ACUT MAYON	Well N		NY.		OF WELL by legal				
Name		AH COUNTY	OREGO	N		IAH_Latitude				
Address	1620 SE PORTLAN		OR 2	Zip 97233	Township ZN	N or S. Range SE	TW YIM	1/	E or W.	WM.
City (2) TYPE OF		D State	OK A	Zip 37233		Block_				
<u>``</u>		Recondition	□ Ab	andon		/ell (or nearest address).				
(3) DRILL M		Recondition	L Au	andon		Park, Mult.	-			
Rotary Air	X Rotary Mud	Cable			(10) STATIC WAT		00,3	* 0101	*****	
Other	223 Rotary Widd	Cable						Date	01/2	4/92
(4) PROPOSE	ED USE:					Ib. per squ	uare inch			
	Community	Industrial	Irrigati	on -	(11) WATER BEA					
	☐ Injection ☐				(,					
	DLE CONSTRU				Depth at which water	was first found6	4			
Special Construction	approval  Yes	No Depth o	f Complete	ed Well_87 ft.		<b>T</b>				
	Yes X No T				From	То	Estima	ated Flow	Rate	SWL
HOLE		SEAL		Amount	68	72		20 gpr	1	13
Diameter From	To   Materia	al From	To	sacks or pounds	80	87		11 11		11
124 0	68 8-Mesh		25	16 sks						
	drill		40							
	cement	40	68	10 sks	(12) WELL LOG					
8   68	87	· <del>2</del>				Ground elevati	on			
	ced: Method A			E	l			_		OXX IX
	red into dr				m .1	Material		From	To	SWL
-	om ft. to				Topsoil	, , ,		0		
	n ft. to	ft. Size o	f gravel _			sandy clay		- 1	23	
(6) CASING/I		a 16:1				rown sand		23 64	64 74	
Diameter Casing: 8		Gauge Steel 1		elded Threaded		coarse gravel vel		74	80	
Casing:o	11 00	- ZJU A				gravel		80	87	
-					Tire to med	graver		- 00		
Liner: 6	57 68	.250 X								
6		.250 X		<b>X</b>						
6.	86 87	.250 X		Χ						
(7) PERFORA	ATIONS/SCRE	ENS:								
Perforati	ons Method									
K Screens	Type W	ire-wound	Material .	Stainless						
	Slot	Tele	e/pipe	Steel						
From To	1 1	Diameter s	ize C	asing Liner						
68 74	.060		ре	□ <b>X</b>						
80 86	.060	6 pi	pe	□ <b>x</b> □		500.W500080-0-MALLOW-				
				Ц Ц -						
				Ш - Ц -		,		-		
(8) WELL TE	STS: Minimun	n testing time	is 1 ho	ur	01/1	F /00		01/0		
П.,	Bailer	⅓ Air		Flowing	Date started01/1	Il Constructor Certifica	pleted _	01/2	4/92	
☐ Pump	☐ Bailer	LA AIr		l Artesian		ork I performed on the		on, alterat	ion, or a	abandon-
Yield gal/min	Drawdown	Drill stem a	at	Time	ment of this well is in c	ompliance with Oregon v	vell const	ruction sta	ndards. 1	Materials
220		20'		1 hr.	used and information r	eported above are true to	my best	knowledg	ge and be	lief.
								WWC Nu	mber	
					Signed					
						Constructor Certification				
Temperature of Wa	ater	Depth Artesian	Flow Fou	nd	I accept responsibil	ity for the construction, a	alteration,			
Was a water analy	sis done?	By whom		· · · · · · · · · · · · · · · · · · ·		ing the construction dates in the construction dates in the construction with Oregon we				
	tain water not suital					mphance with Oregon we by knowledge and belief.				
-	ddy 🗌 Odor 🔲		ther		NG	200	_	WWC N Date 01	1277	1266_
					Signed 1	and the same				
ORIGINAL & FIL	RST COPY - WATE	R RESOURCES	DEPART	MENT SECO	ND COPY - CONSTRUC	CTOR THIRD CO	PY - CU	STOMER	98	09C 10791