PUBLIC IN	TEREST REVIEW FOR GROUP	ND WATER APPLICATION	<u>1S</u>	
TO:	Water Rights Section	Date	July 26	, 2004
FROM:	Ground Water/Hydrology Section	Michael Zwart Reviewer's Name		
SUBJECT:	Application G- <u>16233</u>	Supersedes review of	N/A	, a
		•		Date of Review(s)
PUBLIC INT	EREST PRESUMPTION; GROUNI	DWATER		
OAR 690-310-1	30 (1) The Department shall presume that	a proposed groundwater use will ens	sure the pre	servation of the public
	nd health as described in ORS 537.525. Dether the presumption is established. OAR			

or mar	ı.cım			1/022			lewers Name		27/4				
SUBJE	CI:	Appi	ication G-	10233		Su	persedes re	view of	N/A	Date of Re	view(s)		
OAR 69 welfare, to deter the pres	90-310-1 , safety a mine who sumption NERAL	30 (1) and heal ether the criteria	The Depart th as descr e presumpt . This revi	ibed in ORS ion is estable ew is based ON:  A	presume the 537.525. ished. OA: upon ava	at a propos Department R 690-310- ilable infor	ed groundwit staff review 140 allows the mation and Ron & Ca	y ground wat he proposed agency pol rol Vergee Hood	ensure the preser applications use be modified icies in place at rCo	ervation of under OA dor condit the time	of the pub R 690-31 tioned to e of evalu	10-140 meet	
A2. A3.	Well an	d aquif				Seas	sonality: ng wells; ma	March 1 t	o October 31 I wells as such			ds. e.g.	
Well	Log		Well#	A	quifer*	Rate(cf	fs) (T	(T/R-S QQ-Q) 2250'			' N, 1200' E fr NW cor S 36		
1 2	WASC	1903	1	. В	edrock	0.557 1N/13E-7 NE-NW			W 200' S	200' S, 1820' E fr NW cor S 7			
3	-												
4													
5													
* Alluvi	um, CRB,	Bedroc	k										
Well	Well Elev ft msl	First Wate ft bls	r SWL	SWL Date	Well Depth (ft)	Scal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft) 120-400	Perforations Or Screens (ft) 340-400	Well Yield (gpm)	Draw Down (ft)	Test Type	
	12/0	343	313	4/27/71	+00	V-25	U-117	120-400	340-400	30	03	A	
			for proposed							_1			

Use data	from application for proposed wells.	
A4.	Comments: Drawdown estimated from air test.	Well produces considerably less than the requested rate.
A5. 🛛		Basin rules relative to the development, classification and/or ed to surface water are, or are not, activated by this application.

A6. Well(s) #\_\_\_\_\_\_,

Name of administrative area: \_\_\_

Comments: \_\_\_\_ , \_\_\_\_\_, tap(s) an aquifer limited by an administrative restriction.

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Applic	cation	G- <u>16233</u>		continued		Date: July 26, 2004
в. <u>G</u> I	ROUI	ND WATE	ER AVAILABI	LITY CONSIDERATIO	<u>NS, OAR 690-31</u>	0-130, 400-010, 410-0070
B1.	Bas	sed upon av	vailable data, I h	ave determined that ground w	vater* for the propos	sed use:
	a.	period		ermined to be over appropriated during an er portion of the over-appropriation		
	ъ.					t injury to prior water rights. * This findir a as prescribed in OAR 690-310-130;
	c.	☐ will n	not or 🛭 will lik	ely to be available within the	capacity of the grou	und water resource; or
	d.	i. [ 	The permit shows the pe	itioned, avoid injury to existiculd contain condition #(s) _ could be conditioned as indicational contains special condition	ted in item 2 below.	
B2.				·	•	
D2.	a.		_			ft. below land surface;
	b.	∐ Cond	lition to allow gro	ound water production from n	o shallower than	ft. below land surface;
	c.	Condi water	ition to allow gro reservoir betweer	und water production only from approximately	om the ft. and	ft. below land surface;
	d.	occur issuan	with this use and	without reconstructing are cit	ted below. Without	ve conditions. The problems that are likely reconstruction, I recommend withholding the Department and approved by the Ground Property of the Control of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and approved by the Ground Property of the Department and Approved Bround Property of the Department and Approved Bround Property of the Department and Depa
				ted to water availability—that ithin the capacity of the resou		vithout well reconstruction (interference w/
В3.	Gro <u>log</u>	ound water informatio	availability rem n. Multiple well	arks: <u>It appears likely th</u> s may be necessary to prov	at the requested raide that rate.	ate is optimistic as compared to the well
	=					
	_					
	_				72.00	
			<u> </u>			
	_	12	1000			30 10000 100 100
				18.45		
	9-74		- 0	16		
				A Section		
	1.4			7 10 207		

Application G-16233	continued	Date: <u>July 26, 2004</u>

### 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
	Sandstone of the Dalles Formation		

Basis for aquifer confinement evaluation: The SWL in this and other nearby wells are above the depth that ground water was first encountered in the well bore.

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	Unnamed trib to Mill Cr. (E)	955	1160	800		
1	2	Unnamed trib to Mill Cr. (S)	955	960	1400		
1	3	Mill Creek	955	320	5600		

Basis for aquifer hydraulic connection evaluation: Mill Creek is incised deeply, which exposes the water bearing zone of
he well within the bed and canyon. The nearby reaches of the tributaries are at elevations above the water bearing
zone.

Water Availability Basin the well(s) are located within: Mill Cr > Columbia R at mouth (70246).

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?

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ADI	blica	ition	G-I	6233

\_continued

_	
Date:	July 26, 2004

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 > I% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		110	(013)		(013)			

Comments: _	This section does not apply.	 	

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.

	istributed		17.1.	Man	A	M	T	T1	A	C	0-4	NT	
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3	14.5%	12.8%	9.2%	14.0%	17.5%	20.3%	22.6%	24.6%	26.4%	28.0%	20.2%	16.7%
Well Q		0.026	0.000	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.084	0.040
Interter	ence CFS	0.036	0.032	0.023	0.035	0.044	0.051	0.057	0.062	0.067	0.071	0.051	0.042
Distrib Well	outed Wel SW#	ls Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	- %	%	%	%	%	%	76	%
Well Q	as CFS												1
	ence CFS							-					-
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS	_									F		
(A) - To	otal Interf.	0.036	0.032	0.023	0.035	0.044	0.051	0.057	0.062	0.067	0.071	0.051	0.042
			_	_	<del>                                     </del>	-			<del>\</del>		+	-	-
	% Nat. Q	12.8	27.4	30.5	32.5	19.9	10.2	10.1	9.07	8.41	7.23	8.39	10.1
(C) = 1	% Nat. Q	0.128	0.274	0.305	0.325	0.199	0.102	0.101	0.091	0.084	0.072	0.084	0.101
$(\mathbf{D}) = (A$	(C)												
(E) = (A	/B) x 100	0.28%	0.12%	0.08%	0.11%	0.22%	0.5%	0.56%	0.68%	0.8%	0.98%	0.61%	0.42%

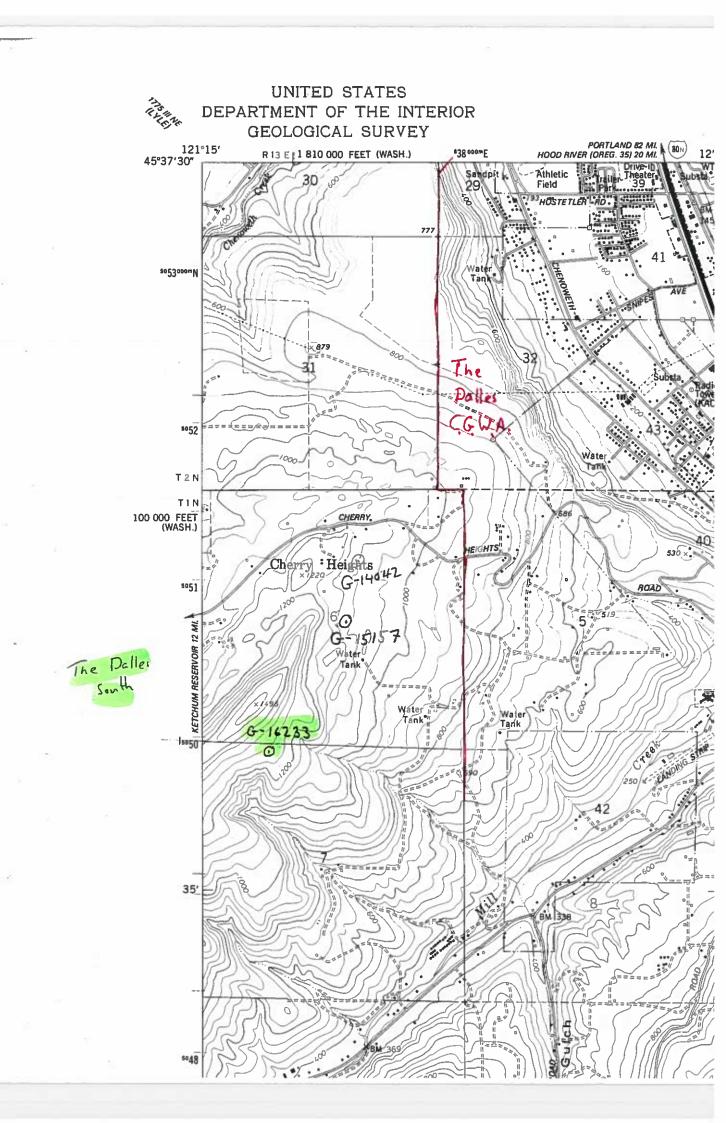
Version: 08/15/2003

ication G- <u>16233</u>	continued	Date: <u>July 26, 2004</u>
(D) = highlight the checkr Basis for impact evalu	nark for each month where (A) is great tion: Used Wozniak modification:	80% exceed. as CFS; (C) = $1\%$ of calculated natural flow at 80% exceed. ater than (C); (E) = total interference divided by 80% flow as percentage. ation of the Hunt stream depletion model. The rate was reduced
approximate that whi	ch would not exceed the duty if	continuously pumped.
690-09-040 (5) (b) Rights Section.	The potential to impair or detri	imentally affect the public interest is to be determined by the W
If properly conditio	ned, the surface water source(s) c	an be adequately protected from interference, and/or ground water tantially interfere with surface water:
i. The perr	nit should contain condition #(s)_	
ii. L The perr	nit should contain special conditio	on(s) as indicated in "Remarks" below;
W / GW Remarks and	Conditions	2
I I THE WARE		
	100	
	0	
-		
U		
eferences Used: Loc	al well logs; reviews of G-15157	& G-14042; GW Report #33.
	700.507	

Appl	ication G-16233continued Date: July 26, 2004
D. <u>V</u>	VELL CONSTRUCTION, OAR 690-200
DI.	Well #: Logid:WASC 1903
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)
D3.	THE WELL construction deficiency:  a.
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.
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.
THI	S SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7.	Well construction deficiency has been corrected by the following actions:
	(Enforcement Section Signature) , 200
D8.	Route to Water Rights Section (attach well reconstruction logs to this page).
7	

# Water Resources Department

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	O O O O O O O O O O O O O O O O O O O	G'	w: <u>/</u>	faction	rer's Name)	Zww erence		ntion			i		C.
	Yes No		e source	e of app	ropriati	on is wi	thin or	above a	Scenic	Water	way		
	Yes No		e the Sc	enic Wa	iterway	condition	on (Cor	ndition '	7J).				
PR	EPOND	ERAN	CE OF	EVIDE	NCE FI	NDING	: (Che	ck box	only if	stateme	nt is tru	e)	
L	7	surf	ace wa	nat the ter flow	propos s neces	sary to	of gro mainta	ound wa	ater wi ree-flov	ll meas	urably	iderance reduce t of a scer	ha
							(:	ĘĘ.					
FLC	OW REI	OUCTION	ON: (Ta	be fille	ed out o	nly if <u>Pr</u>	eponde	erance o	f Evide	nce box	is not a	hecked)	
Exe Wat	rcise of	this per y the f	mit is c	alculate g amou	ed to rec	luce mo	nthly fl	lows in				Scen	iic ch
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
													1





# Water Availability for WID 70246

WATER AVAILABILITY TABLE

Water Availability as of 7/26/2004 for MILL CR > COLUMBIA R - AT MOUTH

Basin: HOOD 70246

Exceedance Level: 80 Date: 07/26/2004 Watershed ID #: Time: 12:03

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 8 NO YES YES Select an Item Number for More Details 0 N 0 N NO N NO NO YES ON N Watershed ID # 70246 Item #

> surface water ground water

publications

links

staff

• programs

maps

file pickup

intranet

water rights

commission

ump to:

• home

water law

Water Availability as of 7/26/2004 for STREAM NAMES

Exceedance Level: 80 MILL CR > COLUMBIA R - AT MOUTH Basin: HOOD

07/26/2004 Date: Item Watershed ID Stream Name Watershed ID #: Time: 12:03

70246 MILL CR > COLUMBIA R - AT MOUTH

oregon online

• search

• about

comments

Water Availability as of 7/26/2004 for LIMITING WATERSHEDS

Exceedance Level: 80 Date: 07/26/2004 MILL CR > COLUMBIA R - AT MOUTH Basin: HOOD 70246 Watershed ID #: Time: 12:03

-7.6 -3.9 -0.7 -5.3 -12.0 Water Net Water Avail? Available CR > COLUMBIA R - AT MOUTH MOUTH - AT MOUTH MOUTH MOUTH MOUTH MOUTH COLUMBIA R COLUMBIA COLUMBIA COLUMBIA COLUMBIA COLUMBIA COLUMBIA Stream Name MILL CR > CR > CR > MILL CR > MILL CR > MILL CR > MILL MILL MILL 70246 70246 70246 70246 Mnth Limiting 70246 0246 70246 Watershed

MOUTH

MILL CR > COLUMBIA

70246

1.6	-7.8	-6.3	5670.0	
YES	NO	NO	YES	
AT MOUTH	AT MOUTH	AT MOUTH	AT MOUTH	
70246 MILL CR > COLUMBIA R - AT MOUTH	MILL CR > COLUMBIA R - AT MOUTH	MILL CR > COLUMBIA R - AT MOUTH	70246 MILL CR > COLUMBIA R - AT MOUTH	
10 70246	11 70246		Stor 70246	

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION Water Availability as of 7/26/2004 for MILL CR > COLUMBIA R - AT MOUTH

Time: 12:03	Time: 12:03							Date: 07/26/2004	07/26/2004
Month   Natural   Stream   Flow	Natura Stream Flow	ral mm		CU + Stor Prior to 1/1/93	CU + Stor CU + Stor Expected Prior to After Stream 1/1/93   Flow	Expected Stream Flow	Reserved  Stream  Flow	Instream Water Rights	Net Water Available
1		12.80	30	1.97	3.41	7.42	0.00	15.00	-7.58
2	(1	27.40	10	3.81	-		00.00		-3.87
m	<u>(7)</u>	30.5	20	4.02		14.30	00.00	15.00	-0.71
4	(*)	32.50	20	5.24			00.00	15.00	5.33
Ŋ	_	19.90	06	8.16		11.70	00.00	15.00	-3.26
9	_	10.20	0.2	7.16		3.04	00.00		-12.00
7	_	10.10	0	3.36	00.00	6.74	00.00	10.00	-3.26
<b>&amp;</b>		9.07	170	2.50	00.00	6.57	00.00		-3.43
6		8.41	11	2.47	00.00	_	00.00		1.94
10		7.23	33	1.06		S	00.00	4.00	1.59
11		8.39	39	1.15	00.00	7.24	00.00	15.00	-7.76
12		10.10	0.1	1.44	00.0		00.00		-6.34
Stor		18300	000	2550	2110	13600	0	8920	5670

DETAILED REPORT OF CONSUMPTIVE USES AND STORAGES
Water Availability as of 7/26/2004 for
MILL CR > COLUMBIA R - AT MOUTH

te He	Watershed ID Time: 12:03	· ••	70246	Bas	Basin: HOOD	0	EXCE	eedance L Date: 07	Exceedance Level: 80 Date: 07/26/2004
1 - 8	Mo   Storage	Irrig	Munic	Ind/Man	Commer	Domest	Irrig   Munic   Ind/Man Commer   Domest   Agricul   Other   Total	Other	Total
¦	4.76	     	 		   	   	 	) ) ]	! ! 
2	15.70								
_	15.60	00.0	09.0	00.0	00.0	0.01	00.00	00.0	16.20
マ	9.30								
10	1,33								

111111									111
1.44	00.0	0.00	0.01	00.0	00.0	09.0	0.00	0.83	12
1.15	0.00	00.00	0.01	00.0	0.00	0.60	00.0	0.54	111
1.64	0.00	0.00	0.01	0.00	00.0	0.60	00.0	1.02	10
2.47	0.00	0.00	0.01	00.0	00.0	1.20	0.75	0.51	<u>ი</u>
2.50	0.00	0.00	0.01	00.0	00.0	1.20	0.72	0.56	∞
3.36	0.00	00.0	0.01	0.00	00.0	1.20	1.48	99.0	7
7.16	00.0	0.00	0.01	00.0	00.0	1.20	5.14	0.81	9

DETAILED REPORT OF RESERVATIONS FOR CONSUMPTIVE USE Water Availability as of 7/26/2004 for MILL CR > COLUMBIA R - AT MOUTH

Watershed ID Time: 12:03	ed ID #: 12:03	70246	t T	Basin: HOOD		EXC D	Exceedance Level: 80 Date: 07/26/2004	vel: 80 26/2004
APP #		- 0	0 -	0   0   0	0	 	0	TOTAL
Status	————————————————————————————————————	   ———		—— !	—— !	——         		
1	0.00	0.00	00.00	00.0	0.00	0.00	00.0	00.0
7	0.00	0.00	00.0	00.0	00.0	00.0	00.0	00.00
т	0.00	0.00	00.0	00.0	00.0	00.0	00.0	00.00
4	00.0	0.00	00.00	00.0	00.0	00.0	00.0	00.00
5	00.00	00.0	00.00	00.0	00.0	00.0	00.0	00.0
9	0.00	0.00	00.0	00.0	00.0	00.0	00.0	00.00
7	0.00	0.00	00.0	00.0	00.0	00.0	00.0	00.0
00	00.0	0.00	00.0	00.0	00.0	00.0	00.0	00.00
0	0.00	0.00	00.00	00.0	00.0	00.0	00.0	00.00
10	00.00	00.0	00.0	00.00	00.0	00.0	00.0	00.00
11	0.00	0.00	00.0	00.0	00.0	0.00	00.00	00.00
1.3	000		000	000	0	000	000	00

DETAILED REPORT OF INSTREAM REQUIREMENTS
Water Availability as of 7/26/2004 for
MILL CR > COLUMBIA R - AT MOUTH
70246 Basin: HOOD EX

Watershed ID #:

Exceedance Level: 80

		i							
APP #	194A	70246A	_	<b>-</b> 0	<del>-</del> 0	<del>-</del> 0	<b>–</b> 0	0	MAXIMUM
111111									
Status	Status Cert.	Cert.		_	_	_	_		

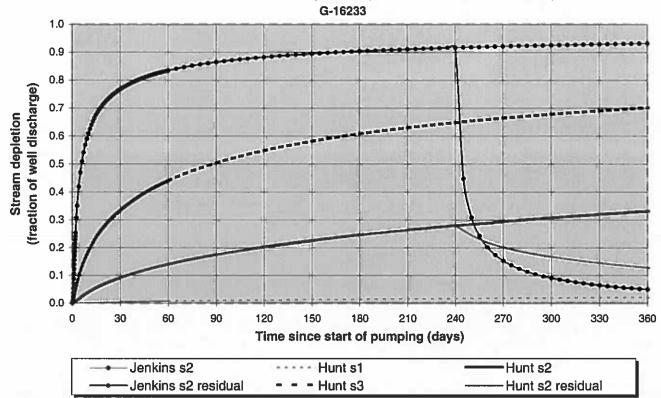
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	00.0	00.0	00.0	00.0	00.0	4.00	4.00	<u> —</u>
	00.0	00.0	00.0	00.0	00.0	10.00	10.00	<u> </u>
	00.0	00.0	00.0	00.0	00.0	10.00	10.00	_
	00.0	00.0	00.0	00.0	00.0	15.00	15.00	<u> </u>
	00.0	00.0	00.0	00.0	00.0	15.00	15.00	- L
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	00.0	00.00	00.0	00.0	00.0	10.00	15.00	<u> </u>
15.00	00.0	00.0	00.0	00.0	00.0	4.00	15.00	2
	00.0	00.0	00.0	00.0	00.0	4.00	15.00	_ _

<u>Paul R. Cleary, Director</u>

Oregon Water Resources Department • 158 12th ST. NE • Salem, OR 97310 • Phone: (503)378-8455 • Fax: (503)378-2496

## Transient Stream Depletion (Jenkins, 1970; Hunt, 1999)



Output for H	unt Strea	m Deple	tion, Sce	nerio 2 (:	s2):	Time pu	mp on = :	240 days				
Days	30	60	90	120	150	180	210	240	270	300	330	360
Hunt SD s2	0.092	0.140	0.175	0.203	0.226	0.246	0.264	0.280	0.202	0.167	0.145	0.128
Qw, cfs	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252
H SD s2, cfs	0.023	0.035	0.044	0.051	0.057	0.062	0.067	0.071	0.051	0.042	0.036	0.032

Parameters:		Scenario 1	Scenario 2	Scenario 3	Units
Net steady pumping rate	Qw	0.252	0.252	0.252	cfs
Distance to stream	а	5600	5600	5600	ft
Aquifer hydraulic conductivity	K	50	20	50	ft/day
Aquifer thickness	b	1500	1500	1500	ft
Aquifer transmissivity	T	75000	30000	75000	ft*ft/day
Aquifer storage coefficient	S	0.005	0.005	0.005	
Stream width	ws	20	20	20	ft
Streambed hydraulic conductivity	Ks	0.01	0.15	1	ft/day
Streambed thickness	bs	5	5	5	ft
Streambed conductance	sbc	0.04	0.6	4	_ft/day
Stream depletion factor (Jenkins)	sdf	2.090666667	5.226666667	2.090666667	days
Streambed factor (Hunt)	sbf	0.002986667	0.112	0.298666667	

# $\sim$ $\sim$ 9 C 0 g Q B 0 b Φ 3

- Application well(s) in this 1/4-1/4 section

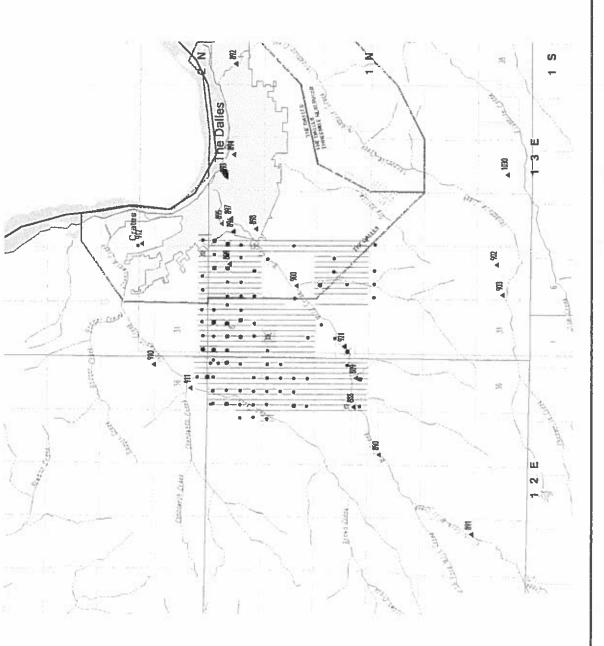
  Well(s) identified in this section
  - Well(s) identified in this section from OWRD's well log database within 1 m. redius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- Permitted well(s) in this 1/4-1/4 section within 1 mi, radius of application well(s)

D

- Conditioned, parmitted well(s) in this 1/4-1/4 section within 5 mi, radius of application well(s)

- Regulated GW Area Critical GW Area





ABANDON: RECONDITIONED: 19 REPAIRED: 6 CONVERSION: 0 DEEPENINGS: 33 NEW CONSTRUCT: 340 COMMUNITY USE: 0 DOMESTIC USE: 343 INDUSTRIAL USE: 2 2 INJECTION USE: IRRIGATION USE: 81 2 THERMAL USE: LIVESTOCK USE: 4

### PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 16233

\$RECNO	APP	LICATION	PER	MIT	CLAIM		LOC-QQ	USE_CODE
1	U	162	U	156		0	2.00N12.00E36NWSE	IR
1	G	2232	G	2055		0	2.00N12.00E36NWSE	IR
2	U	73	U	64		0	2.00N13.00E32SESE	IR
3	G	3226	G	2924		0	2.00N13.00E31SWSW	IR
4	G	15466	G	15142		0	1.00N12.00E 1SWNW	IR
5	G	9790	G	8960		0	1.00N12.00E 1SENE	IR
5	G	11715	G	10847		0	1.00N12.00E 1SENE	IR
5	G	11715	G	10847		0	1.00N12.00E 1SENE	IR
6	G	3607	G	3393		0	1.00N12.00E12NWSW	IR
7	U	603	U	553		0	1.00N12.00E13NWSW	IR
7	U	734	U	662		0	1.00N12.00E13NWSW	IR
7	G	1457	G :	1367		0	1.00N12.00E13NWSW	IR
7		0		0		0	1.00N12.00E13NWSW	DO
7		0		0		0	1.00N12.00E13NWSW	IR
7		0		0		0	1.00N12.00E13NWSW	LV
7		0		0		0		DS
7		0		0		0	1.00N12.00E13NWSW	IR
8	G	170	G	486		0	1.00N12.00E13SWSE	IR
9	G	3226	G	2924		0	1.00N13.00E 6NWNW	IR
9	G	6556	G	6159		0	1.00N13.00E 6NWNW	IS
10	G	8922	G	8396		0	1.00N13.00E 6NWNE	IR
10	G	8922	G	8396		0	1.00N13.00E 6NWNE	IR
11	G	9555	G	8900		0	1.00N13.00E 5NWNE	GD
12	U	64	U	56		0	1.00N13.00E 4NWNW	IR
13	G	11485	G	10616		0	1.00N13.00E 6SENW	IR
14	G	12906	G	11901		0	1.00N13.00E 6SWNE	IR
14	G	12906	G	11901		0	1.00N13.00E 6SWNE	IR
14	G	14042	G	12802		0	1.00N13.00E 6SWNE	IC
15	U	184	U	267		0	1.00N13.00E 5SWNE	IR
16	G	7	G	8498		0	1.00N13.00E 4SWNW	IR
17	G	10653	G	9757		0	1.00N13.00E 6NESW	IR
18	G	15157	G	14991	+	0	1.00N13.00E 6NWSE	IS
18	G	15157	G	14991		0	1.00N13.00E 6NWSE	IR
19	G	16233		0		0	1.00N13.00E 7NENW	IR
20	U	242	U	217		0	1.00N13.00E17NENW	IR
21	U	529	Ū	480		0		IR
21	U	610	U	558		0		IS
	**	******	***	*****	******	* *	*****	

app no. G-16233

\$RECNO	API	PLICATION	PE.	RMIT	LOC-QQ	CONDITION-CODE
1	G	13570	G	12411	2.00N12.00E17NWNW	7BG
1	G	13570	G	12411	2.00N12.00E17NWNW	7BR
1	G	13570	G	12411	2.00N12.00E17NWNW	7DG
1	G	13570	G	12411	2.00N12.00E17NWNW	7DR
1	G	13570	G	12411	2.00N12.00E17NWNW	7BG
1	G	13570	G	12411	2.00N12.00E17NWNW	7BR
1	G	13570	G	12411	2.00N12.00E17NWNW	7DG
1	G	13570	G	12411	2.00N12.00E17NWNW	7DR
	* 1	*****	***	*****	******	****

APPLICATION G 16233 FALLS WITHIN THESE QUAD(S)

THE DALLES SOUTH \*

The following OWRD Groundwater Management Areas are within the map extent:

\$RECNO	NAME1	NAME2	SUB-AREA	STATUS				
1	THE DALLES			CRIT				
2	THE DALLES	THREEMILE RESERVOIR		CRIT				
****								