STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

05-14-2008

WELL LABEL # L	89351
START CARD#	104214

(1) LAND OWNER	wner Well I.D. L89351			(9) LOCATION OF WELL (legal descri	ption)						
First Name Last Name				County Clackamas Twp 2.00 S N/S Range 2.00 E E/W WM							
Company CITY OF MILWAUKIE			Sec <u>6 NE</u> 1/4 of the <u>NE</u> 1/4	Tax Lot 2200							
Address 10722 SE MAIN ST			Tax Map Number Lat ° ' " or	Lot							
City MILWAUKIE State	OR Zip 9	7222	Lat or		DMS or DD						
(2) TYPE OF WORK New Well	Deepening	Conversion	Tax Map Number Lot  Lat ° ' ' or DMS or DD  Long ° ' or DMS or DD  O Street address of well • Nearest address								
Alteration (repair/recondition) Ab	pandonment	•		ddress							
(3) DRILL METHOD			HWY 224 AND SE LAKE RD								
Rotary Air Rotary Mud Cable Reverse Rotary Other	Auger Cable	Mud	(10) STATIC WATER LEVEL Date STATES	WL(psi) +	SWL(ft)						
(4) PROPOSED USE Domestic	Irrigation X Com	munity	Existing Well / Predeepening								
	Dewatering	indinty		Completed Well							
Thermal Injection Other					ry Hole?						
	ON 9 119 1	1 1 1		WATER BEARING ZONES Depth water wa							
(5) BORE HOLE CONSTRUCTI Depth of Completed Well 481.00 f		u KAttach	(copy	SWL Date From To Est Flow	SWL(psi) +	SWL(ft)					
BORE HOLE	SEAL		sacks/		+						
Dia From To Material		To Amt									
20 0 233.5 Cement	0	5 4	S								
16 233.5 481 Bentonite Cl		9 78	S		L						
Cement		88 133 9.7 116	S	(11) WELL LOG Ground Elevation							
How was seal placed: Method A		9.7   116 D   E	S	Material	From	To					
Other				Brown Silt	0	12					
Backfill placed from 481 ft. to 465	ft Material Pos C	Craval/Cand		Brown Gravels, Silts	12	52					
Filter pack from ft. to ft.		Size		Gray Silt Brown Gravels	52	61					
Explosives used: Yes Type				Large Cobbles, Gravel	61	101					
				Brown Silty Sand Cobbles Brown Silty Sand, Small Gravels	101	142					
(6) CASING/LINER Casing Liner Dia + From	To Gauge Stl	Dista Wild	Thed	Gray Gravely Silt	142	151					
				Brown Gray Silty Gravels	151 180	180 211					
$ \begin{array}{c cccc} \bullet & & & 1 \\ \hline \bullet & & & 1 \\ \hline & & 16 & & 332 \end{array} $	332 .375 O		Sandy Silt, Organics	211	218						
	4/6	AH	Blue Gray Silty Clay	218	235						
			Gray Silty Gravels Gray Clayey Silt	235	254						
				Gray Silty Gravels	254 257	257 271					
Shoe Inside Outside Oth	er Location of shoe	e(s)		Gray Silt	271	276					
Temp casing Yes Dia	From T			Gray Silty Gravels, Cobbles	276	304					
(7) PERFORATIONS/SCREENS				Clean Sand, Gravel	304	312					
Perforations Method				Fine Gray-Blk Sand Gray Silt w/Gravel	312 327	327					
Screens Type Johns	son Materia	al Stainless		Clean Sand, Small Gravels	329 349						
Perf/S Casing/ Screen creen Liner Dia From To	Scrn/slot Slot width length		ele/ e size	Date Started 08-15-2007 Completed 04-17-2008							
Screen Liner 10 312 328	.04			(unbonded) Water Well Constructor Certification							
Screen Casing 10 328 382	.04			I certify that the work I performed on the construc							
Screen Liner         10         382         393	.04			abandonment of this well is in compliance with construction standards. Materials used and informat							
Screen Casing 10 393 416	.04			the best of my knowledge and belief.	ion reported abo	ove are true to					
(8) WELL TESTS: Minimum testin				, ,							
Pump Bailer	_	wing Artesiar	1	Electronically Filed	5-14-2008						
Yield gal/min Drawdown Drill st	em/Pump depth Dur	ation (hr)	1	Signed JOSEPH R STALOCH (E-filed)							
800 142	273	24	1	(bonded) Water Well Constructor Certification							
			I accept responsibility for the construction, deepeni								
9E I -b	V D		work performed on this well during the construction of								
Temperature56			performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.								
4		nount Unit	License Number1523								
	1			Electronically Filed	17-2000						
				Signed ROBERT STADELI (E-filed)							
				Contact Info (optional)							

05-14-2008

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	BORE I			NOIN	UCIN		EAL				۱ ۱	(10) STATI						
Dia	DOKE I From		Го	м	aterial			То	Amt	sacks/		Water Be	aring Zone	s				
	1101			Ceme		49.	<u>om</u>	<u>10</u> 229	Amt 205	lbs S		SWL Date	From	To	Fet Flow	SWL(psi)	+	SWL(ft)
				Ceme	11.	77.			203				110111	10	LSt 1 low	5 WE(psi)	$\Box$	S W L(II)
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											-   (	(11) WELL	LOG					
<b>(6) (</b>	CASIN	G/LIN	ER										Material			From		To
Cas	sing Line	r Dia	l +	F	rom T	o Gaug	e Stl	Pleto	Wld	Thrd		Clean Sand, La				349	$\neg \Gamma$	383
<b>F</b>		. Dia	· +		1	Gaug		1 1310	,,, Id			Silty Large Gr	avels, Cobble	es		383	丁	393
F	$\leftarrow \bowtie$		→ +			_	$\dashv \vdash \!$	H	H	H		Black Sand Gr	avels, Cobbl	es		393		401
	$\leftarrow \bowtie$		→ +				$\dashv \vdash \!$	$\times$	H	H		Fine Gray San		vels		401	_[	411
	$\forall \exists$		→ †				$\dashv \succ$	H	H	Н		Brown Sand S		1		411	_	418
	$\prec$		$\dashv$ $\dagger$				$\dashv \mid \succeq$	$\overline{\mathcal{A}}$	H	Ħ		Gray-Green Si Large Silty Co		vels		418	-	427
	5 8		<b>⊣</b> i						H			Brown Sand, C				427	-	432
			7 [						П	П		Silty Large Co				432 443	+	443 447
									П			Clean Gravel S				447	$\neg$	460
			<b> </b> [									Brown Sand, S	small Gravels	3		460		474
					•	•						Black Rock, C	obbles			474		481
																	_	
( <b>7</b> ) T	EDEO	AD A TOT	ONIC	NCOD.	DENIC												+	
	PERFO			5/SCR	EEN2												+	
	Casing			_		Scrn/slot	Slot		of	Tele/							-	
	Liner	Dia		From	To	width	lengt	h si	lots p	ipe size	il							
	Casing Liner	10 10		432 460	460 465	.04					1							
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(8) 1	VELL	TEST	5: M	linimu	m testi	ing time	is i no	our										
Yie	ld gal/mi	n E	Drawd	own	Drill st	em/Pump d	lepth	Dura	ation (ł	<u>hr)</u>		Comments	./Domonly					
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05-14-2008

START CARD # 194214

Map of well



January 3, 2008

BOART LONGYEAR ROBERT STADELI #1523 19700 SW TETON TUALATIN OR 97062 Water Resources Department

North Mall Office Building 725 Summer Street NE, Suite A Salem, OR 97301-1266 503-986-0900 FAX 503-986-0904

## FINAL ORDER

## Dear Robert:

The Special Standard request you submitted for owner: City of Milwaukie, Start Card number 194214, is hereby approved for the following: You may move your drilling machine off of this well prior to completion of construction for up to 30 days in order to properly design, order and receive your well screen (from January 3, 2008 until February 2, 2008). The well shall be protected from damage and shall be properly covered so that contaminants do not enter the aquifer. Following February 2nd your drilling machine must be returned to the drill site and the well shall be either completed or abandoned per Oregon's minimum well construction standards (See OAR 690-210-0390). All other well construction requirements apply. Your Special Standard request form is enclosed.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, please contact me at (503) 986-0851, or by e-mail at Kristopher.R.Byrd@wrd.state.or.us.

Sincerely,

Kristopher Byrd

Well Construction Program Coordinator

Well Construction and Compliance Section

enclosure

cc:

Joel Jeffery, NW Region Well Inspector

File

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.