

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

(WELL I.D.)# L 67932 (Amended)
(START CARD) # 167503 *MULT 75286*

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number TGA Well
Name Portland State University
Address P.O. Box 751
City Portland State OR Zip 97201

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other Reverse Circulation

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 240 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
20"	0	240	cement	0	112	
			cement	210	240	

How was seal placed: Method A B C D E
 Other _____

Backfill placed from 112 ft. to 115 ft. Material sugar sand
Gravel placed from 115 ft. to 210 ft. Size of gravel 3/8 pea

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing	16"	0	160	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	16"	210	240	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type Wire Wrap Material Stainless

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
160	210	.06		16"		<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
		SEE ATTACHMENT	1 hr.

Temperature of water 58 F Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County Multnomah Latitude _____ Longitude _____
Township 1 S Range 1 E WM.
Section 3 NW 1/4 SE 1/4
Tax Lot 90006 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 900 SW 4th Ave, Portland, OR 97201

(10) STATIC WATER LEVEL:
126.8 ft. below land surface. Date 12-08-04
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 128

From	To	Estimated Flow Rate	SWL
128	195		126.8

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
SEE ATTACHED SOIL PROFILE SHEETS			

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APR 04 2005
WATER RESOURCES DEPT.
SALEM, OREGON

Date started 08-17-04 Completed 12-23-04

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WVC Number 1523
Signed _____ Date 04-01-05

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work 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.
WVC Number 1523
Signed *[Signature]* Date 04-01-05

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

Handwritten: MULT 75286 (WELL I.D.)# L 67932 (START CARD) # 167503

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number TGA Well Name Portland State University Address P.O. Box 751 City Portland State OR Zip 97201

(2) TYPE OF WORK: [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [X] Rotary Air [] Rotary Mud [] Cable [] Auger [X] Other Reverse Circulation

(4) PROPOSED USE: [] Domestic [] Community [X] Industrial [] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 240 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds. Row 1: 20", 0, 240, cement, 0, 112, cement, 210, 240.

How was seal placed: Method [] A [] B [X] C [] D [] E Backfill placed from 112 ft. to 115 ft. Material sugar sand Gravel placed from 115 ft. to 210 ft. Size of gravel 3/8 pea

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing 16" 0 160 .375 [X] [] [X] [] Liner: [] [] [] [] [] [] [] []

(7) PERFORATIONS/SCREENS: [X] Screens Method Wire Wrap Material Stainless From 160 To 210 Slot size .06 Number Diameter 16" Casing [X] [] [] [] [] [] [] []

(8) WELL TESTS: Minimum testing time is 1 hour [] Pump [] Bailer [] Air [] Flowing Artesian Yield gal/min Drawdown Drill stem at SEE ATTACHMENT Time 1 hr. Temperature of water 58 F Depth Artesian Flow Found Was a water analysis done? [] Yes By whom Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other Depth of strata:

(9) LOCATION OF WELL by legal description: County Multnomah Latitude Longitude Township 1 S Range 1 E NW WM. Section 3 NW 1/4 SE 1/4 Tax Lot 90006 Lot Block Subdivision Street Address of Well (or nearest address) 900 SW 4th Ave, Portland, OR 97201

(10) STATIC WATER LEVEL: 126.8 ft. below land surface. Date 12-08-04 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 128

Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 128, 195, Estimated Flow Rate, 126.8

(12) WELL LOG: Ground Elevation

Material From To SWL SEE ATTACHED SOIL PROFILE SHEETS RECEIVED JAN 20 2005 WATER RESOURCES DEPT SALEM, OREGON RECEIVED MAR 10 2005 WATER RESOURCES DEPT SALEM, OREGON

Date started 08-17-04 Completed 12-23-04 (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief. Signed [Signature] WWC Number 1523 Date 01-19-05

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work 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. Signed [Signature] WWC Number 1523 Date 01-19-05



Geo-Tech Explorations
 A Division of Boart Longyear
 19700 SW Teton Ave
 Tualatin, OR 97062
 503-692-6400
 503-692-4759 (fax)

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JAN 20 2005

WATER RESOURCES DEPT
 SALEM, OREGON

Start Card: 167503
 Well Label: L67932
 Boring #: TGA Well

Well Tests:

Injection	Pump	Air	Yield GPM	Drawdown/Rise	Depth Tested	Time
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	800 gpm	33 ft. Rise		12 hrs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

Water Bearing Zones:

Depth at which water was first found: 128 ft.

From	To	Specific Capacity	SWL
128	195	24 gpm/ft	126.8

Soil Profile Continued from Log:

Material	From	To	SWL
Topsoil	0	2'	
Silty sand - brown	2	95	
Gravels large	95	116	
Gravels & sand	116	128	
Gravels & sand	128	175	WB
Large gravels & sand	175	195	WB
Cemented gravels (hard)	195	200	
Basalt (fractured)	200	209	
Basalt & grey clay	209	211	
Basalt & clay (grey to brown)	211	213	
Basalt (grey, fractured)	213	217	
Basalt (grey/brown, soft, conglomerate)	217	226	
Basalt (fractured, some weathering)	226	228	
Basalt (grey, fractured w/ green seams)	228	239	
Basalt (grey, fractured, vesicular)	239	240	TD

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MAR 10 2005

WATER RESOURCES DEPT
 SALEM, OREGON