

Mult 72560

Amended *

STATE OF OREGON WATER SUPPLY WELL REPORT

(WELL I.D.)# L 68018

(START CARD) # 161699

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

(1) OWNER: Well Number PW-4

Name City of Portland
Address 1120 SW 5th Ave
City Portland State OR Zip 97204

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

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

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 635 ft.
Explosives used Yes No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds. Rows for 12", 8", and 6" diameters.

How was seal placed: Method A B C D E
Other Bentonite poured dry
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for 8" and 6" casing.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner.

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

Table for well tests with columns: Pump, Bailer, Air, Flowing Artesian, Yield gal/min, Drawdown, Drill stem at, Time.

Temperature of water 58 F Depth Artesian Flow Found 131'
Was a water analysis done? Yes By whom Golder Associates
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 5 E WM
Section 26 SE 1/4 SE 1/4
Tax Lot 400 Lot Block Subdivision
Street Address of Well (or nearest address) at the foot of Bull Run Dam No.2 and above the headworks

(10) STATIC WATER LEVEL:
ft. below land surface. Date
Artesian pressure 45' lb. per square inch. Date 1-15-04

(11) WATER BEARING ZONES:
Depth at which water was first found 103'

Table for water bearing zones with columns: From, To, Estimated Flow Rate, SWL.

(12) WELL LOG:
Ground Elevation

Table for well log with columns: Material, From, To, SWL. Includes RECEIVED stamp dated JUN 30 2004.

Date started 12-13-03 Completed 1-15-04

(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.
Signed [Signature] WWC Number 1523 Date 6/23/04

(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.
Signed [Signature] WWC Number 1464 Date 6/23/04

STATE OF OREGON
WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

(WELL I.D.) # L 68018

(START CARD) # 161699

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

(1) OWNER: Well Number **PW-4**

Name **City of Portland**

Address **1120 SW 5th Ave**

City **Portland** State **OR** Zip **97204**

(2) TYPE OF WORK

New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:

Rotary Air Rotary Mud Cable Auger

Other

(4) PROPOSED USE:

Domestic Community Industrial Irrigation

Thermal Injection Livestock Other **test**

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well **635** ft

Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
12"	0	117'	Cement	15'	117'	70 sacks
			Bent. Chips	0	15'	10 sacks
8"	117'	218'	cement		218'	18 sacks

How was seal placed: Method A B C D E

Other **Bentonite poured dry**

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing	8"	+ 1'	117'	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	6"	+ 1.5'	218'	.250	<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 _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input 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
250	flowing		1 hr.

Temperature of water **58 F** Depth Artesian Flow Found **131'**

Was a water analysis done? Yes By whom **Golder Associates**

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 **5** E WM.

Section **26** SE 1/4 SE 1/4

Tax Lot **400** Lot _____ Block _____ Subdivision _____

Street Address of Well (or nearest address) **at the foot of Bull Run Dam No.2 and above the headworks**

(10) STATIC WATER LEVEL:

_____ ft. below land surface. Date _____

Artesian pressure **45'** lb. per square inch. Date **1-15-04**

(11) WATER BEARING ZONES:

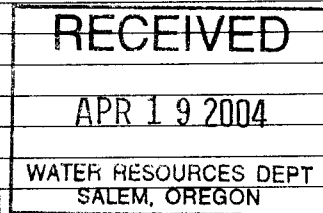
Depth at which water was first found **103'**

From	To	Estimated Flow Rate	SWL
(SEE ATTACHMENT)			

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
(SEE ATTACHMENT)			



Date started **12-13-03** Completed **1-15-04**

(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 _____ WWC Number **1523** Date **3-31-04**

(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 _____ WWC Number **1523** Date **4/13/04**



Geo-Tech Explorations, Inc.
 19700 SW Teton
 Tualatin, OR 97062
 Ph: (503) 692-6400, Fax: (503) 692-4759

Well Name: PW-4
 Start Card #: 161699
 Label #: L68017

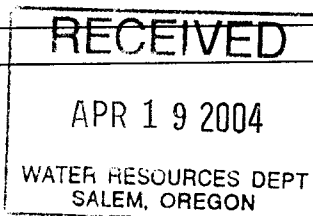
(11) Water Bearing Zones

Depth at which water was first found 103 ft.

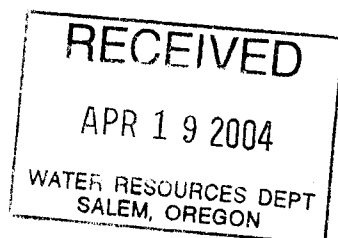
From	To	Est. Flow Rate	SWL
103	106'	10-15gpm	---
131'	165'	50 gpm	30 psi
177'	184'		30 psi
278'	283'		42 psi
324'	283'		42 psi
470'	478'	200 gpm total	

(12) Well Log

Material Description	From:	To:
Pit run	0	3'
Boulders (+ 2 feet diameter)	3'	15'
Gravels and Brown silt	15'	96'
Blue and brown clay	96'	103'
gravels (water bearinging)	103'	106'
Medium basalt - dark gray	106'	131'
Fractured gray basalt	131'	165'
Medium basalt - light to dark gray	165'	177'
Claystone - blue gray / fractured	177'	184'
Medium basalt - gray	184'	260'
Medium basalt - gray / fractured	260'	265'
Medium basalt - gray	265'	278'
Medium basalt - gray / fractured	278'	283'
Medium basalt - gray	283'	295'
Hard basalt - gray	295'	318'
Basalt - gray / red vesicular	318'	324'
Fractured basalt - gray / green	324'	350'
Medium basalt - gray	350'	368'



Basalt - gray / black (very hard)	368'	370'
Medium basalt - gray	370'	430'
Basalt - gray / black (hard)	430'	470'
Fractured basalt - gray / green (medium)	470'	478'
Medium basalt - gray	478'	565'
Basalt - gray with brown seams of siltstone	565'	567'
Vesicular basalt with blue streaks	567'	589'
Basalt - gray	589'	635'



MULT 73379

STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

(WELL I.D.)# L 68018

(START CARD) # 164463

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

(1) OWNER: Well Number PW-4 Name City of Portland Address 1120 SW 5th Ave City Portland State OR Zip 97204

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

(3) DRILL METHOD: [x] Rotary Air [] Rotary Mud [] Cable [] Auger [] Other

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

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [x] No Depth of Completed Well 690 ft. Explosives used [] Yes [x] No Type Amount

Table with columns: HOLE (Diameter, From, To), SEAL (Material, From, To), Sacks or pounds. Row 1: 6", 635, 690

How was seal placed: Method [] A [] B [] C [] D [] E [] Other Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing NA, Liner

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Row 1: NA

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

Table for well tests with columns: Yield gal/min, Drawdown, Drill stem at, Time. Row 1: 250, flowing, 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 Clackamas Latitude Longitude Township 1 S Range 5 E WM. Section 26 SE 1/4 SE 1/4 Tax Lot 400 Lot Block Subdivision Street Address of Well (or nearest address) at the foot of Bull Run Dam No.2 and above the headworks

(10) STATIC WATER LEVEL: ft. below land surface. Date Artesian pressure 43 lb. per square inch. Date 6/21/04

(11) WATER BEARING ZONES: Depth at which water was first found 103'

Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 635, 643, 70psi

(12) WELL LOG: Ground Elevation

Table for well log with columns: Material, From, To, SWL. Includes 'RECEIVED AUG 13 2004 WATER RESOURCES DEPT SALEM OREGON'

Date started 5/17/04 Completed 5/28/04

(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.

Signed [Signature] WWC Number 1523 Date 08-09-04

(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.

Signed [Signature] WWC Number 1464 Date 08-09-04