Approved: 

MEMO

To:	Kristopher Byrd, Well Construction Manager
From:	Tommy Laird, Well Construction Program Coordinator
Subject:	Review of Water Right Application G-19468
Date:	May 15, 2025

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Travis Brown reviewed the application. Please see Travis's Groundwater Review and the Well Report.

Applicant's Well #1 (MARI 55530): Based on a review of the Well Report, Well #1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Well Report, the interval between the upper and lower seal was filled with "gravel" instead of impermeable sealing material. In order to meet minimum construction standards, the well must be resealed with an approved grout.

My recommendation is that the Department not issue a permit for Well #1 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

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

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

MARI 55530

RECEIVED
MAR 1 2 2001
WATER RESOURCES DEPT
SALEM, OREGON

WELL ID # L 22920
START CARD # 111223

(1) OWNER: Well Number: 2
Name: Oregon State Parks
Address: 1115 Commercial St NE
City: Salem State: OR Zip: 97301

(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 State Park

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☒Yes ☒No
Depth of Completed Well 1042
Explosives Used ☐Yes ☒No Type Amount

HOLE Diameter	From	To	Material	SEAL From	To	sacks or pounds
12"	0'	96'	Cement	0'	96'	45
11"	96"	880'	Cement	96'	365'	75
11"	875	933"	Cement	880'	930'	30
8"	933'	1040				

How was seal placed: Method ☐A ☐B ☒C ☐D ☐E
☐ Other
Backfill placed from 365' to 875' Material Gravel
from to Material
Gravel placed from to Size of gravel 1/4"

(6) CASING/LINER:
CASING:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
8"	1.5'	933'	.250	☒	☐	☒	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐

LINER:

				☐	☐	☐	☐
				☐	☐	☐	☐

Final location of Shoe(s):

(7) PERFORATIONS/SCREENS:
☐ Perforations Method:
☐ Screen Type: Material:

From	To	Slot Size	No.	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gpm	Drawdown	Drill Stem at	Time
200		1042	1 hr.

Temperature of water 54 Depth Artesian Flow Found
Was a water analysis done? By whom:
Did any strata contain water not suitable for intended use? (explain)
No
Depth of Strata:

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SALEM, OREGON

(9) LOCATION OF WELL by legal description:
County: Marion Latitude: Longitude:
Township: 8S Range: 1E
Section: 26 NW ¼ NW ¼
Tax Lot: Lot: N/A Block: Subdivision:
Street Address of Well (or nearest address)
Hwy 214

(10) STATIC WATER LEVEL:
690' Ft. below land surface Date 1/04/2000
Artesian pressure lb. per sq. in. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 32'

From	To	Est. Flow Rate	SWL
32'	62'	25	32'
320'	320'	15	290'
860'	880'	35	698'
995'	1000'	50	690'
1017'	1023'	150	690'

(12) WELL LOG: Ground Elevation:

Material	From	To	SWL
Top soil	0	5	
Tuff, Gravels	5	16	
Gravels, Cobles	16	32	
Gravels, Cobles Boulders	32	56	
Broken Hard claystone	56	58	
Gravels and Basalt boulders	58	62	
Claystone with basalt stringers	62	88	
Claystone Brown	88	113	
Claystone and Basalt Layers	113	123	
Basalt	123	138	
Claystone Green	138	177	
Basalt	77	181	
Claystone Green	181	213	
Claystone with Basalt layers	213	231	
Claystone brown	231	262	
Sandstone and basalt layers	262	280	
Sandstone with silty Basalt layers	280	320	
Sandstone	320	330	290
Claystone and sandstone layers	330	345	
Claystone Green and Brown	345	381	
Claystone, Ash with wood	381	397	
Sandstone, Silty	397	426	
Claystone Gray	426	502	
Basalt Back	502	543	
Claystone Gray	543	555	
Basalt Black	555	600	
Claystone Gray	600	615	

Date Started: 11/21/99 Completed: 1/03/2000

(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.

WWC Number 1620
Signed Mary McCoy Date

(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.

WWC Number 723
Signed Date

ORIGINAL & FIRST COPY - Water Resources Department SECOND COPY - Constructor THIRD COPY - Customer

MAR1
55530

STATE OF OREGON ***PAGE 2 of 2***
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

WELL ID # L ____
START CARD # ____

(1) OWNER:
Well Number: 2
Name: ____
Address: ____
City: ____ State: ____ Zip: ____

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

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

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐Yes ☐No
Depth of Completed Well ____
Explosives Used ☐Yes ☐No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	sacks or pounds

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E
☐ Other ____
Backfill placed from ____ to ____ Material ____
from ____ to ____ Material ____
Gravel placed from ____ to ____ Size of gravel ____

(6) CASING/LINER:
CASING:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐

LINER:

				☐	☐	☐	☐
				☐	☐	☐	☐

Final location of Shoe(s): ____

(7) PERFORATIONS/SCREENS:
☐ Perforations Method: ____
☐ Screen Type: ____ Material: ____

From	To	Slot Size	No.	Tele/pipe Diameter	size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
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Yield gpm	Drawdown	Drill Stem at	Time
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Temperature of water 54 Depth Artesian Flow Found ____
Was a water analysis done? ____ By whom: ____
Did any strata contain water not suitable for intended use? (explain)

Depth of Strata: ____

(9) LOCATION OF WELL by legal description:
County: ____ Latitude: ____ Longitude: ____
Township: ____ Range: ____
Section: ____ ____ ¼ ____ ¼
Tax Lot: ____ Lot: ____ Block: ____ Subdivision: ____
Street Address of Well (or nearest address) ____

(10) STATIC WATER LEVEL:
____ Ft. below land surface Date ____
Artesian pressure ____ lb. per sq. in. Date ____

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

From	To	Est. Flow Rate	SWL

(12) WELL LOG: Ground Elevation: ____

Material	From	To	SWL
Basalt Black	615	649	
Claystone Gray, Green	649	750	
Basalt Black Hard	750	838	
Claystone	838	865	
Basalt Brown soft	865	895	698'
Basalt Black hard	895	995	
Basalt Black fractured	995	1000	690'
Basalt Black	1000	1017	
Basalt broken	1017	1023	690'
Basalt Black Hard	1023	1042	

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Date Started: 11/21/99 Completed: 1/03/2000

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WWC Number 1620
Signed ____ Date 1/4/2000

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WWC Number ____
Signed ____ Date ____

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