

March 6, 2026

Arron Bell (Arron@rhestatewines.com)
RH Vineyard and Winery
2995 Michigan City Lane NW
Salem, Oregon 97304

Sent by e-mail only

**Re: SRC-AA - 1994 Well #1 - POLK883 (PR# [20-2026](#))
RH Vineyard and Winery (PWS ID# [95773](#))
Conditional Approval**

Dear Mr. Bell:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the 1994 Well (POLK883), tanks and secondary treatment for the RH Vineyard and Winery. On December 17, 2026, our office received a baseline survey report from the Oregon Dept. of Agriculture including schematics and photographs of the water system, and a well log (POLK883). A plan review fee payment in the amount of \$825 was also received on February 5, 2026, at which time plan id #20-2026 was assigned. Water quality test results (nitrate & arsenic sampled 2/18/26 and both non-detect) were received on February 18, 2026.

This review encompasses the following:

- A single well drilled 8/23/1994 (SRC-AA – 1994 Well #1 ([POLK883](#)))
- Hauled surface water from the City of Salem (PWS ID# [00731](#))
- One buried concrete storage tank
- One 20-gallon Well-X-Trol pressure tank (model # WX-101)

Redhawk (RH) Vineyard and Winery, LLC is a winery and tasting room located at 2995 Michigan City Lane NW, Salem, Oregon 97304 in Polk County. Water is provided by a single well located roughly 60 feet North of the residential home it serves. The well distributes water into a buried concrete cistern tank, that is supplemented by hauled water (acquired from the City of Salem ([PWS ID# 00731](#)) at the local fire station). This cistern distributes water into the residential home where it fills into a small pressure tank that then splits and distributes water to the residential home and then the winery and tasting room. The system is classified as a transient non-community (TNC) system licensed by the Oregon Dept. of Agriculture based on an average daily population of 25 users.

Well Log Evaluation – Adequately Constructed into a Confined Aquifer

The well log (POLK883) was reviewed our OHA-DWS geologist Tom Pattee who determined the well to be adequately constructed into a confined aquifer with a low susceptibility to contamination from nearby land use practices by our geologist (see enclosed well evaluation results).

Engineered Plans Exemption – Pending Approval

Under OAR 333-061-0060(1)(b), submittals must be prepared by a Professional Engineer registered in Oregon, unless exempted by DWS. This exemption you requested was submitted on February 16, 2026 to our plan review coordinator and is still pending approval. Note that by utilizing this exemption, the water system takes full responsibility for the project.

Conditions for Approval

The following conditions will need to be met prior to issuing final approval:

- 1) The below-grade tank must have footing drains discharging to daylight to carry away ground water which may accumulate around the perimeter of the structure.
- 2) The outlet end of the drain/overflow for the buried storage tank must be fitted with an angle-flap valve or equivalent protection (e.g., #24 mesh insect screen) and must discharge with an airgap to a watercourse or storm drain capable of accommodating the flow.
- 3) The roof access hatch for the buried storage tank must have curbing around the opening and a lockable watertight cover that overlaps the curbing. There is evidence of rainwater and dirt getting in through the hatch, which is deteriorated and cracked as shown below.



- 4) The air vent on the cistern pump should be replaced with a downward turned elbow and fitted with an insect screen (#24 mesh stainless or aluminum window screen works well).



- 5) Since the hatch is on the roof, an internal ladder must be provided.
- 6) A silt stop must be provided at the outlet pipe of the buried storage tank.
- 7) The well will need a sample tap for sampling the raw water from the well prior to any storage tanks or treatment.
- 8) The area within 100 feet of the well shall be owned by the water supplier, or a perpetual restrictive easement shall be obtained by the water supplier for all land (with the exception of public rights-of-way) within 100 feet of the well. The easement shall be recorded with the county in which the well is located and with the recorded deed to the property. A certified true copy shall be submitted to our office.
- 9) Documentation (e.g., conditional use permit, etc.) will need to be submitted showing the winery and tasting room are an approved use. If such documentation does not exist, land use approval can be obtained by providing Polk County with a land use compatibility statement (LUCS) form using either the Microsoft Word or PDF template on our website at the links below. The completed form can then be submitted to our office.
- <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/LUCS.docx> (Microsoft Word LUCS form)
 - <https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/LUCS.pdf> (PDF LUCS form)

- 10) Materials (piping, sample taps, sealants, etc.) with the potential to be in contact with drinking water are certified to ANSI/NSF Standard 61 for use in potable water systems. Most components will have markings stamped on them indicating this certification. Sealants will also indicate this certification on the packaging.



- 11) Coliform sample results need to be submitted. The results should include a sample taken from the well, prior to any storage tanks. A second coliform sample needs to be taken from a sink in the tasting room which is used to provide potable water. Note: the Oregon Dept. of Agriculture may request additional sampling that needs to be done in order to meet licensing requirements.

Construction Standards


Please refer to the links provided below for construction standards for wells and tanks under OAR 333-061-0050.



OAR 333-061-0050(2) – Wells:

<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/OAR-333-061-0050.pdf#page=3>

OAR 333-061-0050(6) – Storage Tanks:


<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/OAR-333-061-0050.pdf#page20>

As provided under  [OAR 333-061-0055 \(end of page 26\)](#), Drinking Water Services may grant waivers from construction standards under some conditions (e.g., the absence of an internal tank ladder, silt stop, land ownership around a well, etc.).

The construction standards waiver application form is available as a  [fillable MS Word](#) or a  [PDF document](#) on our plan review page at:

<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Pages/index.aspx#construction>

Refer to my email and templates I sent you on February 27, 2025 for more information on requesting a construction standard waiver.

Once the above conditions have been met, to close out this project and request final approval, please fill out the Project Final Approval  [request form](#) and email it me at evan.e.hofeld@oha.oregon.gov along with any supplemental documentation showing how the above conditions have been met (be sure to reference Plan Review #20-2026 and public water system (PWS) ID #95773).

Until we receive verification that the conditions have been met and final approval has been issued, the drinking water facilities are not approved for use.

If you have any questions, please feel free to email me at evan.e.hofeld@oha.oregon.gov or call me at 971-200-0288.

Sincerely,



Evan Hofeld, PE
Regional Engineer
Drinking Water Services

CC: Sarah Schwab, Oregon Dept of Agriculture (ODA): Drinkingwater@oda.oregon.gov
Christina Tisdell, Polk Co. Community Development: tisdell.christina@polkcountyor.gov
Tommy Laird, OWRD WCP Inspection Coord.: Tommy.k.laird@water.oregon.gov
Kris Byrd, OWRD WCP Section Manager: kristopher.r.byrd@water.oregon.gov
Joel Plahn, Oregon Water Resources Dept.: Joel.M.PLAHN@water.oregon.gov
Tom Pattee, Oregon Health Authority – DWS: Tom.PATTEE@oha.oregon.gov

Enclosure(s):

- Well evaluation results
- Water system description

Well Evaluation Results (POLK883)

An evaluation for the well (POLK883) completed on March 5, 2026 by OHA-DWS geologist, Tom Pattee, showed that the well was adequately constructed into a confined aquifer having a low susceptibility to contamination from nearby land use practices. Further details regarding this evaluation are shown below.

As Built Well Construction Evaluation for Plan Review and/or Setback Waiver:

- Well/Spring meets current construction standards.
 - WRD special construction standards, see well log or Comments.
- Well/Spring construction does not meet construction standards.
 - Not sealed to appropriate depth. Recommended depth: _____
 - Not appropriate seal materials
 - Open to more than one aquifer
 - Seal info missing or unknown
 - Seal not constructed properly (Insufficient sealant volume Insufficient annular space)
- Susceptible construction, but grandfathered source. Consider for reconstruction if nitrate \geq 5mg/L or confirmed *E. coli* at source.
- Susceptible well construction, **not approved for use.**

Comments: This well was drilled to a depth of 200 ft. The well is cased and sealed to a depth of 39 ft. The casing and casing seal extend 5 ft into competent bedrock that we interpret as basalt (the well log says "Rock"). Water can enter the well through the uncased portion of the well from 39 to 200 ft below ground level. Sensitivity Analysis results suggest that well construction has a low sensitivity to nearby land use practices.

Nature of Aquifer Evaluation:

Aquifer Nature: Confined aquifer Semi-confined aquifer Unconfined aquifer

Comments: This well appears to draw water from a confined layered basalt aquifer. The water-bearing zone is reported to occur at a depth of 75 ft. The water-bearing zone is overlain by 41 ft of basalt of low permeability that acts as a confining layer. Water in the aquifer is under pressure, rising 27 ft above the top of the water-bearing zone to a static water-level of 48 ft below ground. Sensitivity Analysis results suggest that the aquifer has a low sensitivity to nearby land use practices.



Reviewed by: Tom Pattee, R. G.

Date: 03/05/2026



Water System Description

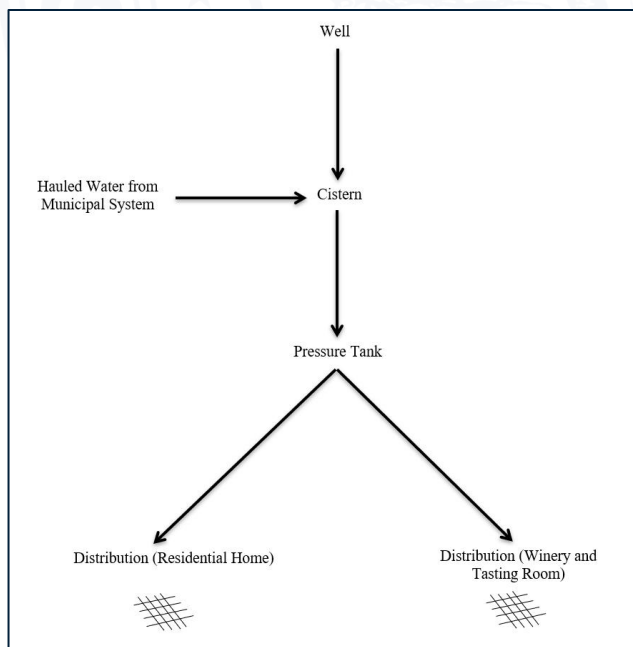
<https://www.rhstatewines.com/>
<https://yourwater.oregon.gov/inventory.php?pwsno=95773>

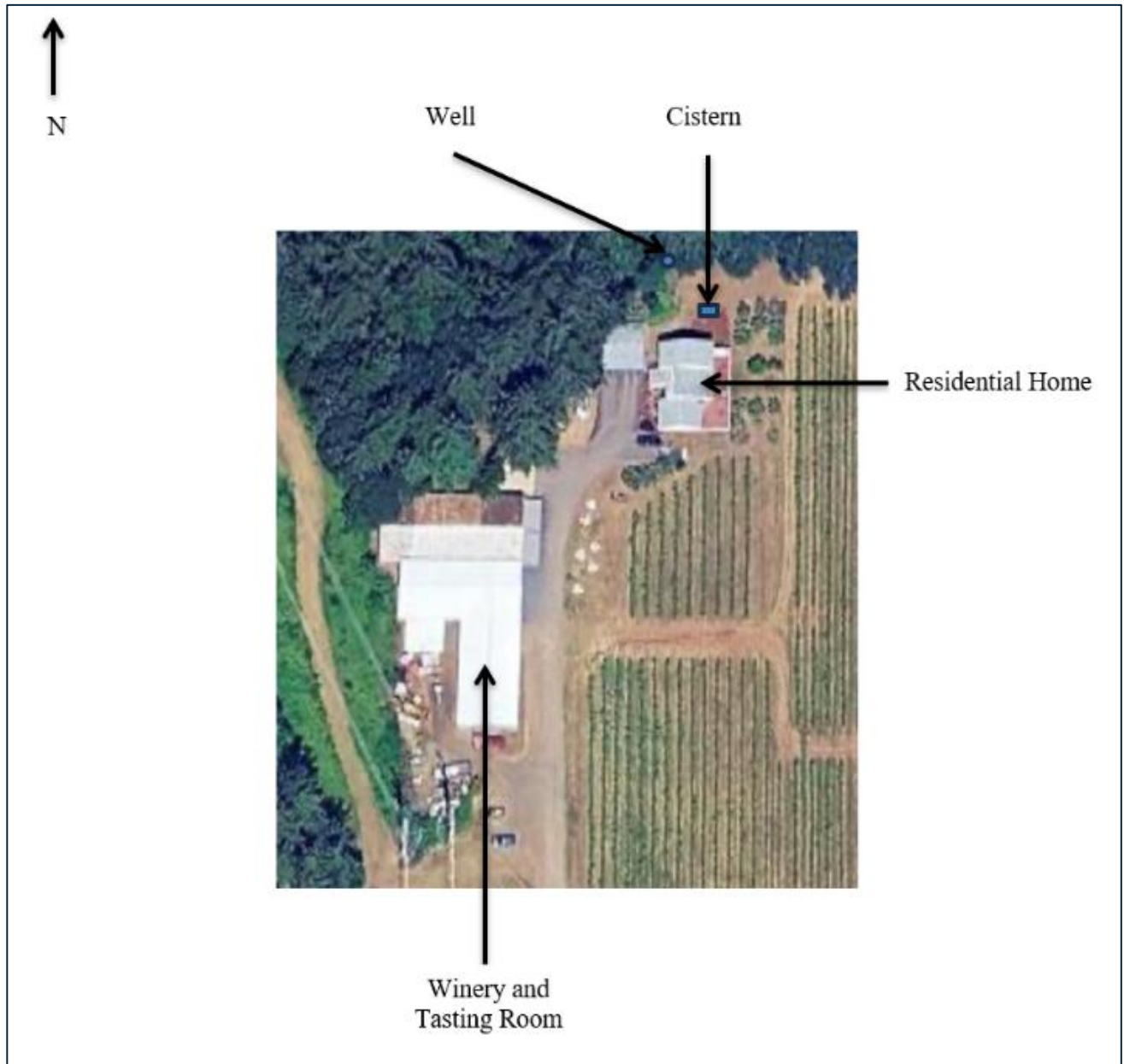
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The system is classified as a transient non-community (TNC) system licensed by the Oregon Dept. of Agriculture based on an average daily population of 25 users.

The water system consists of:

- A single well drilled 8/23/1994 (SRC-AA – 1994 Well #1 ([POLK883](#)))
- Hauled surface water from the City of Salem (PWS ID# [00731](#))
- One buried concrete storage tank
- One 20-gallon Well-X-Trol pressure tank (model # WX-101)





SRC-AA - 1994 Well #1 - POLK883

- Link to WRD Well Map:
https://apps.wrd.state.or.us/apps/gw/well_log/wl_details.aspx?wl_id=244137
- Google Maps to address: <https://maps.app.goo.gl/pZZjNzt9HCYfMCQA6>
- Google Maps to well GPS Coordinates:
<https://maps.app.goo.gl/DhttJYc7pRXStFoD6>

Water is provided by a pitless adapter well (POLK883), which is roughly 60 feet north of the residential home it serves. The well is within 100-ft of adjacent property, so RH Winery and Tasting Room, LLC does not own or control all land through perpetual restrictive easements within 100-ft of the well. The well is located more than 100-ft away from any septic drain field. The well has the following construction/protection characteristics:

Site Identification <small>(Click to Collapse...)</small>	Location <small>(Click to Collapse...)</small>	
GW LogID: POLK 883 Well Log Database GW Well Tag Number: Tag Verified on Well: No Site Type: WELL Primary Use: DOMESTIC Unused Status: Site Source Organization: Site Source OWRD: Established By: KARL WOZNAK Established Date: 11/21/2001 Bonded Company: ROBINSON DRILLING Stage: COMPLETE	Latitude/Longitude Latitude: 44.98817203 Horiz. Error: 100.00 ft. Longitude: -123.09109795 Datum: WGS1984 Lat/Long Source: MAP 24K Location TRSQQ: WM 7.00S3.00W5SWSW Tax Map: Taxlot: 24 Quad: SALEM WEST Basin: 2 - Willamette County: Polk WM District: 22 WM Region: NW LSD Elev: 440.00 Accy: 5.00 Datum: NGVD1929 Elev Source: 7.5-MINUTE MAP Groundwater Mapping Tool	<p>Vantor Oregon Water Resources Departm</p>

Well Construction & Protection*		Yes	No
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Well log available?		
<input checked="" type="checkbox"/>	<input type="checkbox"/> Pitless adaptor?		
<input checked="" type="checkbox"/>	<input type="checkbox"/> ● Sanitary seal & casing watertight?		
<input checked="" type="checkbox"/>	<input type="checkbox"/> ● Meets setbacks from hazards? ft.: <input type="text"/>		
<input checked="" type="checkbox"/>	<input type="checkbox"/> ● Wellhead protected from flooding?		
<input checked="" type="checkbox"/>	<input type="checkbox"/> ● Raw water sample tap?		
<input type="checkbox"/>	<input type="checkbox"/> ● Treated water sample tap? <input checked="" type="checkbox"/> N/A (no treatment)		
<input checked="" type="checkbox"/>	<input type="checkbox"/> ● If vented, properly screened? <input type="checkbox"/> N/A (not vented)		
<input type="checkbox"/>	<input checked="" type="checkbox"/> Concrete slab around casing?		
<input checked="" type="checkbox"/>	<input type="checkbox"/> Casing height ≥ 12-in. above slab/grade?		
<input checked="" type="checkbox"/>	<input type="checkbox"/> Pump to waste piping?		
<input type="checkbox"/>	<input checked="" type="checkbox"/> Protective housing?		



Well Log (Version 2 – Completion Dated 8/23/1994):

16 **POLK 883** 7s/5w/5bc

(START CARD) # 70044

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

(1) **OWNER:** Well Number 16 3
 Name Tom Robinson
 Address 2995 Michigan City Av
 City Salem State Ore Zip 97304

(2) **TYPE OF WORK:**
 New Well Deepen Recondition Abandon

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

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

(5) **BORE HOLE CONSTRUCTION:**
 Special Construction approval Yes No Depth of Completed Well 200 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
6"	39	200	cement	31	39	2 Sak
10"	0	39	Bentonite	0	32	

How was seal placed: Method A B C D E
 Other Filled to Top With Dry Bentonite.
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) **CASING/LINER:**

Casing	Diameter	From	To	Gauge	Steel				Plastic				Welded				Threaded			
					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	6"	+1	39	250																

Liner: _____

Final location of shoe(s) _____

(7) **PERFORATIONS/SCREENS:**
 Perforations Method _____
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner

(8) **WELL TESTS: Minimum testing time is 1 hour**
 Pump Bailor Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
4	4 gpm	280	1 hr.

Temperature of Water 54 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 Polk Latitude _____ Longitude _____
 Township 7 S N or S. Range 5 W E or W. WM. _____
 Section 5 SW NW _____
 Tax Lot 0700 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Same

(10) **STATIC WATER LEVEL:**
48 ft. below land surface. Date 8/23/94
 Artesian pressure _____ lb. per square inch. Date _____

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

From	To	Estimated Flow Rate	SWL
75	200	4 gpm	

(12) **WELL LOG:** Ground elevation _____

Material	From	To	SWL
Soil			
Brown Clay w/ boulders	0	13	
Rock Brown w/ clay	13	28	
Rock Partly weathered	28	34	
Rock Black w/ Brown Layer	34	75	
Rock Partly weathered	75	180	
Rock	120	160	
Clay Red Greenish Gray	160	200	

RECEIVED
 SEP 16 1994
 WATER RESOURCES DEPT.
 ROBINSON DRILLING GALEM, OREGON
 WELLS & PUMPS
 4520 Dallas-Salem Hwy.
 Salem, Ore. 97304
 371-1844

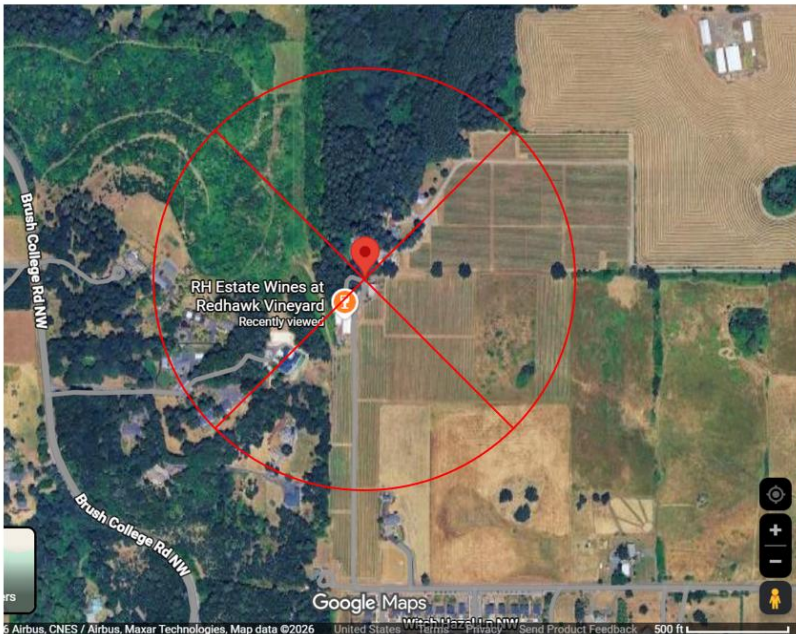
Date started 8/17/94 Completed 8/23/94
(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
 WWC Number _____
 Signed _____ 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 well construction standards. This report is true to the best of my knowledge and belief.
 WWC Number #1585
 Signed [Signature] Date 8-26-94

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 10/91

Approximate 50- 100- and 500-ft radii around the well:

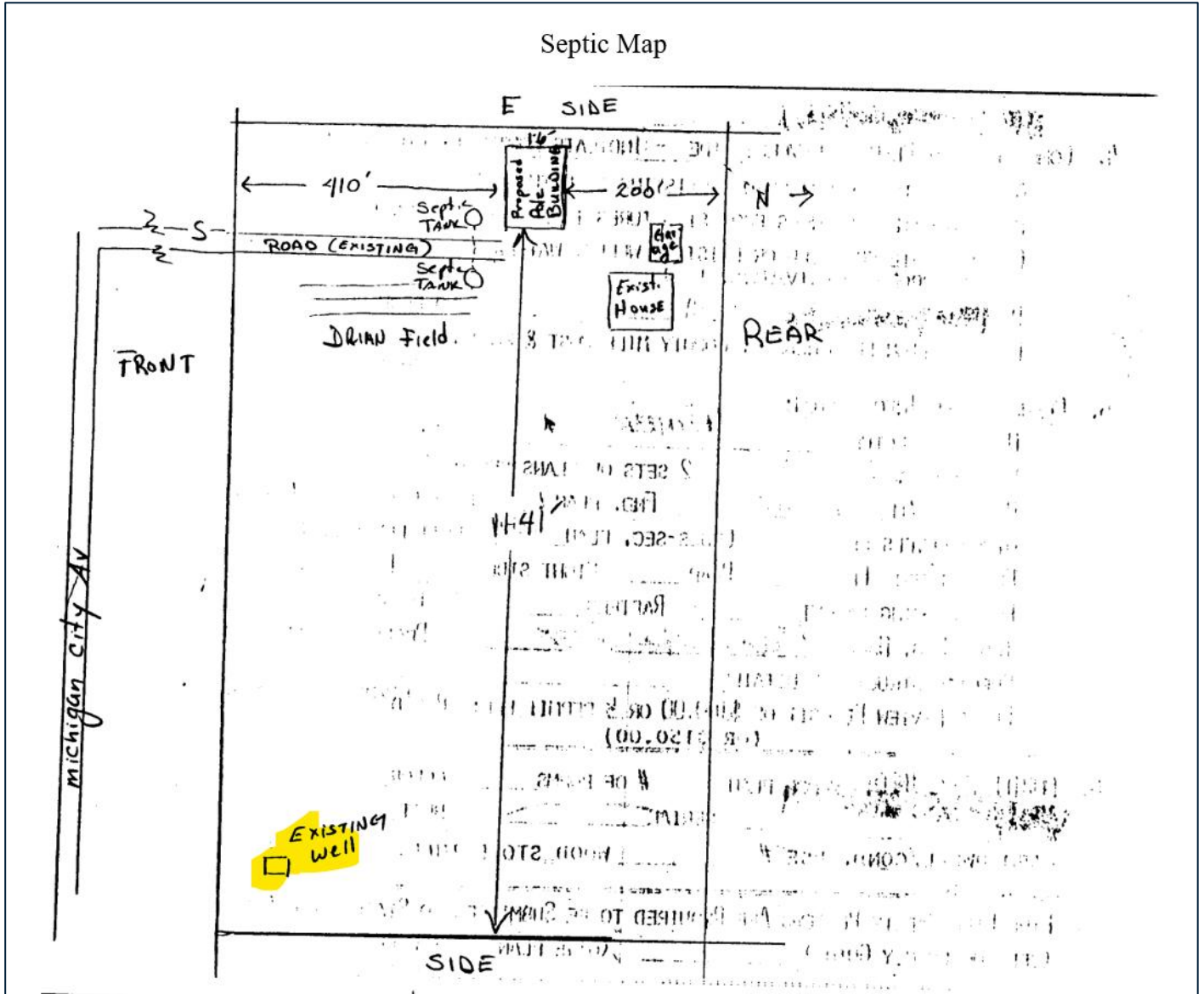
500-ft radius around well:



50- and 100-ft radii around well:



Septic Map



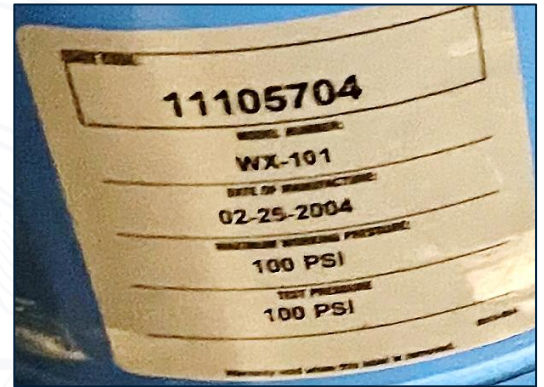
Cistern

The well pumps water to the cistern, which is also supplemented by fully treated surface water purchased from the City of Salem (hauled from the local fire dept.)



Pressure Tank (Well-X-Trol WX-101)

Water is pumped out of the cistern to the residential home where it pressurizes a 2-gallon pressure tank. Water then splits where it serves the home, winery, and tasting room without any treatment.



N/A

Pressure Tanks*		
Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Accessible for maintenance?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bypass piping?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drain?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pressure relief device?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air bladder/diaphragm?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Valve for adding air?





800 NE Oregon St., Ste 640, Portland, OR 97232-2162
Voice: 971-673-0405 | Fax: 503-673-0694
All relay calls accepted | www.healthoregon.org/dws

