



March 20, 2024

800 NE Oregon Street, Suite 640 Portland, OR 97232-2162 Phone: 971-673-0405 Fax: 503-673-0694 www.healthoregon.org/dws

Edwin Sharer

<u>e_sharer@hotmail.com</u>

16500 Southeast Lafayette Highway

Dayton, OR 97114

Letter sent by email only.

Re: New Subdivision w/ 2 Wells & Tank (PR#34-2024)
Martha's Vineyard Estates (PWS ID#01562)
Site Plan Approval

Tentative Subdivision Plan for:

MARTHA'S VINEYARD

ESTATES

Location: NW 1/4 Section 12, T. 4 S., R. 5 W.,
WM., in a portion of the Charles Berry Donation
Land Claim No. 42, Yamhill County, OR

Tax Lot: 4512 - 1293, 1292, 1291, 1600

Date: 22 February 2024

SITE

Dear Mr. Sharer

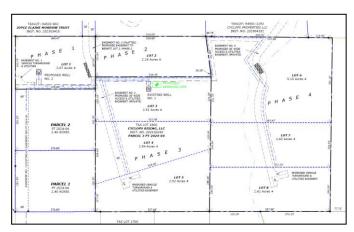
Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for two new wells to serve the new *Martha's Vineyard Estates* subdivision. On February 26, 2024, our office received a "Tentative Subdivision Plan" showing the location of an existing well and the location of a 2nd well proposed to be constructed to serve a new 8-lot subdivision located northwest of McMinnville in Yamhill County. On March 6, 2024, we received the land use application submitted to Yamhill County. A plan review fee payment in the amount of \$825 was received on March 8, 2024 under plan review # 34-2024, which is trackable online at:

https://yourwater.oregon.gov/planreview.php?pwsno=01562

More details about the community water system as viewable online at https://yourwater.oregon.gov/inventory.php?pwsno=01562

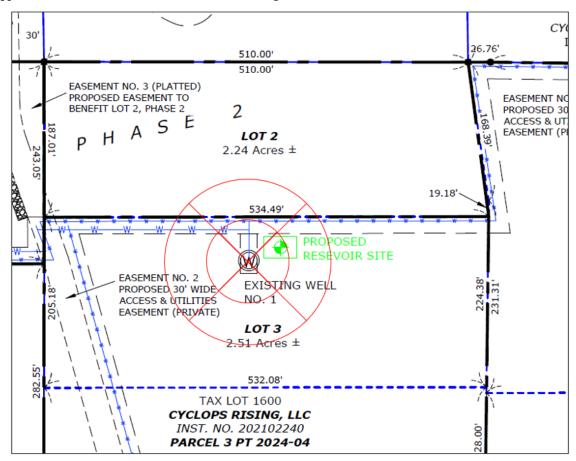
The water system consists of a tank and 2 new wells on a single entry point (EP-A):

- SRC-AA Well #1 <u>L149436, YAMH59159</u> constructed 11/30/2022 on Lot 3 and
- SRC-AB Well #2 proposed to be constructed on Lot 1 as shown in the following maps:



SRC-AA - Well #1 (L149436)

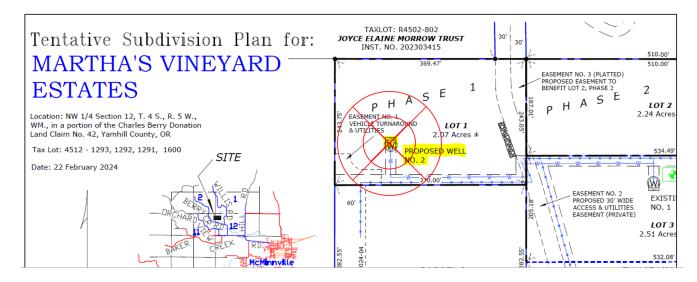
Approximate 50-ft and 100-ft radii around the existing Well #1.



SRC-AB - Well #2 (Proposed)

The proposed well will be 108 feet from the neighboring property to the west, and the well will be 77 feet north of the Lot # 2, owned by Jahnke Family

Approximate 50-ft and 100-ft radii around the proposed Well #2:



A regional geologist in our program, Tom Pattee, reviewed the well log for well #1 (YAMH59159) and the proposed well #2 location. Mr. Pattee noted the following, which should be shared with the well driller:

• Well #1 (L149436):

As Built Well Construction Evaluation for Plan Review and/or Setback Waiver:
Well/Spring meets current construction standards.
Comments: This well was drilled to a depth of 401 ft. The casing and casing seal extend to a depth of 101.5
ft, 17 ft into low permeability basalt that overlies the aquifer. A narrow diameter liner and liner screen extend
to the bottom of the hole and helps keep the borehole open below the casing. Water can enter the well through
the uncased portion of the well below a depth of 101.5 ft. Sensitivity Analysis results suggest that well
construction does not contribute to the overall sensitivity of this water source to local land use practices.
Nature of Aquifer Evaluation:
Aquifer Nature: Confined aquifer Semi-confined aquifer Unconfined aquifer Comments: This well is designed to capture water from a deep confined layered basalt aquifer. The water-
bearing zone is reported to occur at a depth of 217 ft and is overlain by 133 ft of low permeability basalt that
acts as a confining layer. Water within the aquifer is under pressure, rising 118.5 ft above the water-bearing
zone to a recorded depth of 98.5 ft below ground level. Sensitivity Analysis results suggest that the aquifer is
not highly sensitive to nearby land use practices.
Construction Setback Waiver Info:
Hydrogeologist comments regarding Waiver from Construction Standards Request: A property line boundary is present within the 100 ft sanitary setback. The well is adequately constructed to draw water from a deep confined layered basalt aquifer. Sensitivity Analysis results suggest that water quality from this drinking water source has a low susceptibility to activities associated with future residential development.
Well #2 (Proposed): Proposed Well Construction Recommendations:
Estimated depth to water–bearing zone: <u>~180 to 230 ft</u> Estimated aguifer nature: ⊠ Confined □ Unconfined

The project is granted site plan approval. Once construction of Well #2 is complete, please submit the following for both wells and related subdivision:

Comments: Based on the well log for the nearby Martha's Vineyard Estates 2022 Well #1 (YAMH59159), it is likely that a well drilled at this location will draw water from a deep confined basalt aquifer. The depth to

1. The well driller's report (well log).

Estimated depth of casing seal: 50 ft or deeper.

competent bedrock is likely to be 45 to 90 ft.

- 2. Well pumping test information including static water level, pumping rate, draw-down and rate of recovery.
- 3. Pump information (e.g., type of pump, make/model, capacity, and lubricant used).
- 4. Documentation showing ownership or easements for 100-ft radius around both wells.

- 5. Raw (Untreated) Water Quality Data including:
 - Coliform bacteria,
 - Chemical groups including:
 - 1. Inorganic compounds (IOC) including nitrate and arsenic, among others,
 - 2. Volatile organic compounds (VOC),
 - 3. Synthetic organic compounds (SOC),
 - Radionuclides (gross alpha, uranium, and radium 226/228),

These samples are to be taken from each of the new well's raw water sample tap at the wellhead and analyzed by a lab certified in Oregon for drinking water analysis (ORELAP certified lab). See the complete list of chemical analytes required to be sampled in the enclosed list of *Chemical Contaminants and Maximum Levels*.

- 6. Engineered plans & photos that show the above-ground wellhead structure detail including the well house (or pitless adapter if applicable), concrete slab, drainage, pump-to-waste piping and plans and specifications for connection of the new well to the water system.
- 7. A copy of the Water Right Permit for each well from WRD, if a Water Right Permit is required or, if not required, correspondence from Oregon Water Resources Department that demonstrates a water right is not required for either well. Contact Joel Plahn if you have questions regarding water rights:

IIIOEL Plahn	Oregon Water Resources Dept. 725 Summer Street NE, Suite A Salem, OR 97301	503-508- 2394	503-986- 0904
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8. Additional plans and specifications related to the new subdivision's water system (waterlines, tanks, pumping facilities, etc.) in conformance with OAR 333-061-0050: https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/OAR-333-061-0050.pdf

The above items should reference Plan Review #34-2024 & PWS ID #01562 and can be emailed to me at evan.e.hofeld@oha.oregon.gov. If you have any questions, please feel free to call me at 971-200-0288.

Sincerely,

Evan Hofeld, Regional Engineer - OHA-Drinking Water Services evan.e.hofeld@oha.oregon.gov

Emstifled

cc:

- Jonathan Jahnke Cyclops Rising, LLC- <u>jondjahnke@gmail.com</u>
- Melissa Wong, REHS Yamhill County Public Health wongm@yamhillcounty.gov
- Tommy Laird, Well Const. Prog. Coord., OWRD <u>Tommy.K.LAIRD@water.oregon.gov</u>

Enclosure: Chemical Contaminants & Maximum [Contaminant] Levels (MCLs)

E Picocuries per liter Millirems per year

Contaminants and Maximum Levels

Inorganics	mg/L	Synthetic Organics	mg/l
Antimony Total		2,4-D	0.07
Arsenic	0.010 ^A	2,4,5-TP (Silvex)	0.05
Asbestos	7 MFL ⁸	Adipates Di(2-ethylhexy)	
Barium		Alachlor (Lasso)	
Beryllium Total		Atrazine	
Cadmium		Benzo(A)Pyrene (PAH's)	
Chromium		BHC-gamma (Lindane)	
Cyanide		Carbofuran	
Fluoride		Chlordane	
Mercury		Dalapon	
Nickel Nick	el MCI under review	Dibromochloropropane (DBCP)	
Nitrate		Dinoseb	
Nitrate-Nitrite		Dioxin (2,3,7,8-TCDD)	
Nitrite		Diguat	
Selenium		Endothall	
Sodium		Endrin	
Thallium Total	0.002	Ethylene Dibromide (EDB)	
Trialium Total		Glyphosate	
Load and Conner		Heptachlor Epoxide	
Lead and Copper D	0.045		
Lead		Heptachlor Hexachlorobenzene (HCB)	
Copper	1.3	Hexachlorocyclopentadiene (HEX)	
W. L			
Volatile Organics	0.002	Methoxychlor	
1,1-Dichloroethylene	0.007	Pentachlorophenol	
1,1,1-Trichloroethane		Phthalates Di(2-ethylhexy) (DEHP)	
1,1,2-Trichloroethane		Pictoram	
1,2-Dichloropropane		Polychlorinated Biphenyls (PCB)	
1,2-Dichloroethane		Simazine	
1,2,4-Trichlorobenzene		Toxaphene	
Benzene		Vydate (Oxamy)	0.2
Carbon Tetrachloride			
Cis-1,2-Dichloroethylene			
Dichloromethane			
Ethylbenzene			
Monochlorobenzene			
O-Dichlorobenzene			
P-Dichlorobenzene			
Styrene			
Tetrachloroethylene (PCE)	0.005		
Toluene			
Total Xylenes			
Trans-1,2-Dichloroethylene			
Trichloroethylene (TCE)	0.005		
Vinyl Chloride	0.002		
Radionuclides			
Gross alpha particles	15 pCi/LE	A MCL lowered to 0.010 mg/L on 1/23/	06
Combined radium 226/228		⁸ Million Fibers per liter	
Uranium		G Advisory only	
Beta/photon emitters		D Action level	
Dotarphoton children	Till Gilk Ji	E Discouries was then	