

Tina Kotek, Governor

March 5, 2026

Christiane Kraemer (christiane@thegrantcompanyinc.com)
Grant Company
135 E. Charles St.
Mt. Angel, OR 97362

Sent by e-mail only

**Re: 2024 Well #1 – YAMH59595, L153823 ([PR#22-2026](#))
Austin Sparkling Winery & Tasting Room (PWS ID# [95782](#))
Conditional Approval**

Dear Ms. Kraemer:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the 2024 Well (YAMH59595), tanks and secondary treatment for the Austin Sparkling Winery and Tasting Room (PWS ID #95782). On February 12, 2026, our office received plans, land use documentation, site maps, well log (YAMH55595), water quality test results (including nitrate, arsenic, and coliform bacteria), and photographs of the water system. A plan review fee payment in the amount of \$825 was also received on February 12, 2026, at which time plan id #22-2026 was assigned.

The facilities included under this plan review include:

- A single well drilled 10/23/24 (SRC-AA - Well #1 - [YAMH59595](#) (L153823)
- One 46,000-Gallon Corrugated Steel "Fire Tank" (CorGal Model# 2105-WT-CHR)
- One [REDACTED]-Gallon NSF-61 Pressure Tank (FlexCon P2Pro Model #FL2 [REDACTED])
- Secondary treatment consisting of:
 - One NSF-44 certified water softener (Water-Right Impression Plus Model # [REDACTED]) w/NSF-60 SureSoft® salt.
 - One Luminor® NSF-55 Class A UV Unit (18-GPM Blackcomb-HO Model #LBH6-40XA) – not approved for 4.0-log viral disinfection.
 - One NSF-42 certified cartridge filter (DGD Series Model # [REDACTED])
- NSF-372 certified horizontal multi-stage pump (MH Series Model # [REDACTED])

(Please provide model numbers where missing as highlighted above)

The water system serves a winery and tasting room located at 11050 NE Worden Hill Rd, Dundee, OR 97115. 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 or more.



Well Evaluation Results (YAMH59595)

An evaluation for the well log (YAMH59595) completed on March 4, 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 enclosed.

The plans are approved subject to the following conditions:

Conditions remaining to be met for the well according to OAR 333-061-0050(2):

- 1) Unless the well is fitted with a pitless adapter, a reinforced concrete slab must be poured around the well casing and sloped to shed water away from the casing.
- 2) Unless the well is fitted with a pitless adapter, the wellhead must be enclosed in a well house or otherwise protected from the elements. The well house must allow for future removal of the well pump (e.g., a removable roof, roof hatch, etc.).

Conditions remaining to be met for the 46,000-gallon corrugated steel tank according to OAR 333-061-0050(6):

- 3) If the interior of the tank is coated or lined, the coating or lining must be NSF-61 certified for potable use.
- 4) The outlet end of the drain/overflow for the storage tank must be fitted with angle-flap valve or equivalent protection (e.g., insect screen) and must discharge with an airgap to a watercourse or storm drain capable of accommodating the flow.
- 5) The roof access hatch for the storage tank must have curbing around the opening and a lockable watertight lid that overlaps the curbing.
- 6) Where the hatch is on the roof, an internal ladder must be provided.
- 7) A silt stop must be provided at the outlet pipe of the storage tank.
- 8) A fence or other method of vandal deterrent must be provided for the tank.

Conditions for disinfection and testing according to OAR 333-061-0050(10):

- 9) New facilities are disinfected and tested once construction is complete and coliform sample results are submitted according to OAR 333-061-0050(10). Sampling shall include a sample taken from a sink serving potable water from the tasting room.
- Nitrate, arsenic, and coliform bacteria sample results (enclosed) that were sampled January 15, 2025 from the well prior to any storage tanks and treatment were previously submitted and were all non-detect.
 - Note that additional sampling may be required by the Oregon Dept. of Agriculture, depending upon their licensing requirements.

Please refer to our construction standards for wells and tanks available on our website at the links below:

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>


OAR 333-061-0050(10) – Disinfection of New Facilities:

<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/OAR-333-061-0050.pdf#page25>

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, 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>

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 #22-2026 and public water system (PWS) ID #95782).

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: Tiffany Austin, Austin Sparkling Winery: gandtsparkling@gmail.com
Kaleb Dark, The Grant Company: kaleb@thegrantcompanyinc.com
Leta Sterner, Taylor Lombardo Architects: leta@taylorlombardo.com
Sarah Schwab, Oregon Dept of Agriculture (ODA): Drinkingwater@oda.oregon.gov
Brian Hawkins, Oregon Dept. of Agriculture: Brian.HAWKINS@oda.oregon.gov
Melissa Wong, Yamhill County Public Health: wongm@yamhillcounty.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 (YAMH59595)

An evaluation for the well (YAMH59595) completed on March 4, 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 701 ft. The casing extends to a depth of 497 ft. The casing seal is a split seal with the upper portion of the casing sealed to a depth of 218 ft. A lower seal was placed around the casing between 475 and 497 ft below ground. The lower casing is completed 45 ft into a 53 ft thick layer of basalt and claystone. A narrow diameter liner extends below the bottom of the casing to the bottom of the hole. The liner contains screens from 501 to 521 ft and 681 to 701 ft below ground. Water can enter the well below the casing and then through the liner perforations. Sensitivity Analysis results suggest that well construction is not sensitive to nearby land use practices.

Nature of Aquifer Evaluation:

Aquifer Nature: Confined aquifer Semi-confined aquifer Unconfined aquifer

Comments: This well draws water from a deep confined sedimentary bedrock aquifer. The first water-bearing zone below the casing seal is reported to occur at a depth of 505 ft and is overlain by 53 ft of unfractured sedimentary bedrock and basalt of low permeability that acts as a confining layer. Water in the aquifer is under pressure, rising 173 ft above the top of the reported water-bearing zone to a static water-level depth of 332 ft below ground. Sensitivity Analysis results suggest that the aquifer is not sensitive to nearby land use practices.

Reviewed by: Tom Pattee, R. G.

Date: 03/04/2026




Water System Description

The water system serves a winery and tasting room located at 11050 NE Worden Hill Rd, Dundee, OR 97115. 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 or more. The well was found to be adequately constructed into a confined aquifer by our geologist, Tom Patte (see enclosed well evaluation results).




<https://rocowinery.com/tasting-room/>

The Grant Company's Post

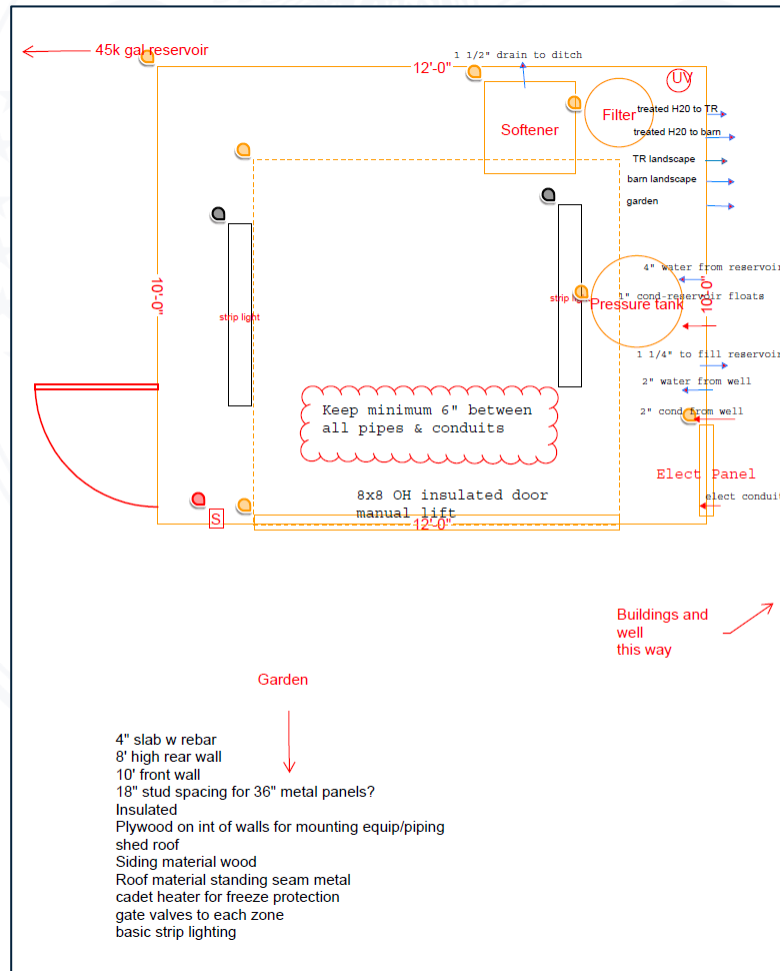
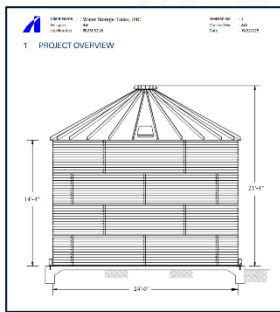
 The Grant Company is at Dundee Hills, Oregon.
August 1, 2025 · Dundee, OR · 🌐

Austin Sparkling is a one of a kind tasting room project. The view is amazing on a clear day. The roof and walls are still in progress with a combination of structural steel and wood components. With the building placed on a hillside, the crews are also installing retaining walls to hold back the soil for the walkways and patio.



The water system consists of:

- A single well drilled 10/23/24 (SRC-AA - Well #1 - [YAMH59595](#) (L153823))
- One 46,000-Gallon Corrugated Steel “Fire Tank” (CorGal Model# 2105-WT-CHR)
- One [redacted]-Gallon NSF-61 Pressure Tank (FlexCon P2Pro Model #FL2 [redacted])
- Secondary treatment consisting of:
 - One NSF-44 certified water softener (Water-Right Impression Plus Model # [redacted]) w/NSF-60 SureSoft® salt.
 - One Luminor® NSF-55 Class A UV Unit (18-GPM Blackcomb-HO Model #LBH6-40XA) – not approved for 4.0-log viral disinfection.
 - One NSF-42 certified cartridge filter (DGD Series Model # [redacted])
- NSF-372 certified horizontal multi-stage pump (MH Series Model # [redacted])





- Cartridge Filter
- UV Unit
- Water Softener
- Salt Tank
- Pressure Tank
- Treated Water to Tasting Room (hidden by salt tank)
- Treated Water to Barn
- To Tasting Room Landscape
- To Barn Landscape
- To Garden (hidden by pressure tank)
- Pressure Tank
- 4" Waterline from 26,000-GAL Tank
- 1" Elec. Conduit (floats for tank)
- 1-1/4" Waterline to 26,000-GAL Tank
- 2" Waterline from Well
- 2" Elec. Conduit from Well

SRC-AA - 2024 Well #1 - YAMH59595 (L153823)

Link to WRD Well Map:

https://apps.wrd.state.or.us/apps/gw/well_log/wl_details.aspx?wl_id=614596

Google Maps to address:

11050 NE Worden Hill Rd, Dundee, OR 97115

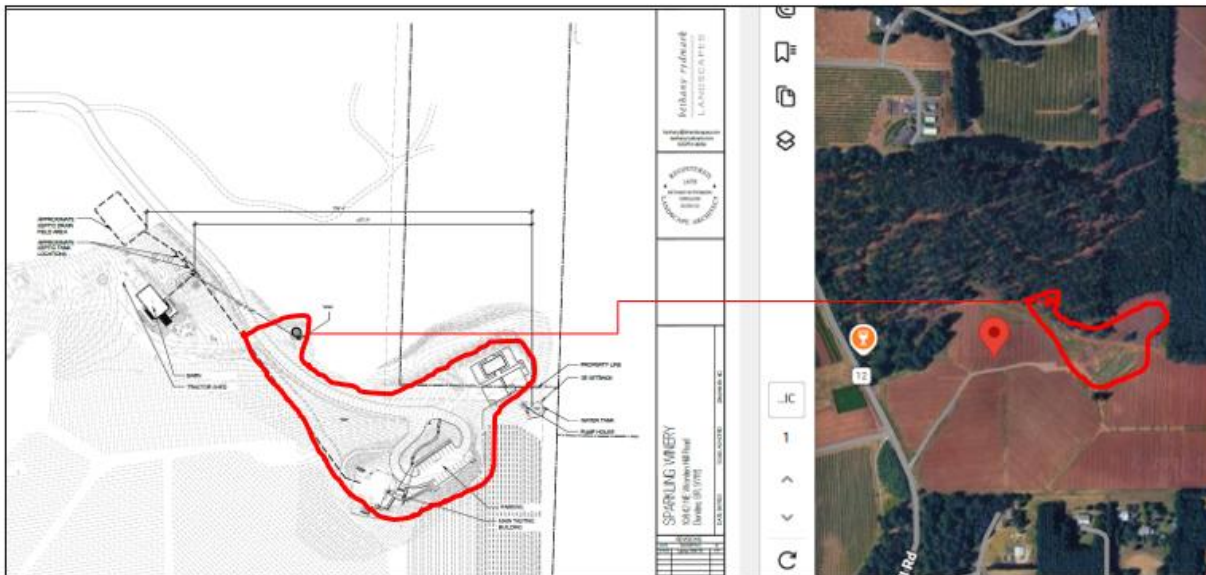
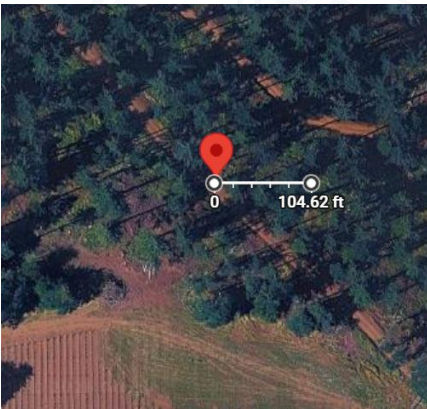
<https://maps.app.goo.gl/fnFSrJc7H6xe3cad9>

Google Maps to well GPS Coordinates: 45.298544, -123.06378

<https://maps.app.goo.gl/WwEYj6FjGFYPVPgA8>

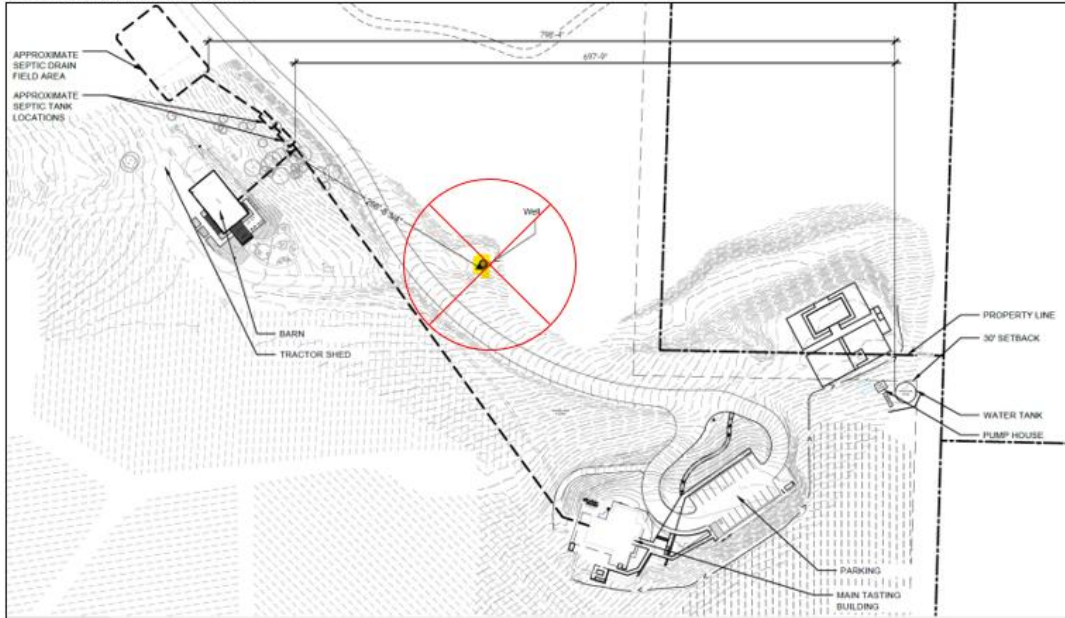


LOCATION OF WELL
Latitude: 45.29854400 Datum: WGS84
Longitude: -123.06378000
Township/Range/Section/Quarter-Quarter Section:
WM3.00S3.00W21SENW
Address of Well:
NYA WORDEN HILL RD NEWBERG, OR 97132



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

100-ft radius around well:



500-ft radius



Well Log

STATE OF OREGON
 WATER SUPPLY WELL REPORT

YAMH 59595

WELL I.D. LABEL# L153823
 START CARD # 1075572
 ORIGINAL LOG #

(as required by ORS 537.545 & 537.765 and OAR 690-205-0210) **10/24/2024**

(1) LAND OWNER Owner Well I.D. 24-34
 First Name GRANT & TIFFANY Last Name AUSTIN
 Company _____
 Address 3113 E. CRESTVIEW DR.
 City NEWBERG, State OR Zip 97132

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (complete 2a & 10) Abandonment (complete 5a)

(2a) PRE-ALTERATION
 Dia + From To Gauge Slt Plstc Wld Thrd
 Casing: _____
 Material From To Amt sacks/lbs
 Seal: _____

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

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other WINE TASTING ROOM

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Well 701.00 ft.

BORE HOLE			SEAL			sacks
Dia	From	To	Material	From	To	lbs
10	0	218	Bentonite Chips	0	80	41 S
8	218	497			Calculated	36.51
6	497	701	Cement with 2% Bentonite	80	218	70 S
					Calculated	31.93

Seal placement method: A B C D E Other BENT Poured-PROBE
 Backfill placed from _____ ft. to _____ ft. Material _____
 Filter pack from _____ ft. to _____ ft. Material _____ Size _____
 Explosives used: _____ Type _____ Amount _____
 Seal Placement Begin Date 10/22/2024 Begin Time 12 00

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
 Proposed Amount _____ Actual Amount _____

(6) CASING/LINER

C/L	Dia	+	From	To	Gauge	Mat. Type	Wld	Thrd	Shoe Location
C	6	X	2	497	0.250	ST	X		IN. 497
L	4.5		401	701	Sch40	PL		X	

Temp casing Yes Dia 10 From + 0 To 7

(7) PERFORATIONS/SCREENS
 Perforations Method _____
 Screens Type slotted Material PVC

Perf/ Screen	Casing/ Screen	Dia	From	To	Scr/slot width	Slot length	# of slots	Tele/ Pipe size
Screen	Liner	4.5	501	521	032			Pipe Size
Screen	Liner	4.5	681	701	032			Pipe Size

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

Type of Test	Yield (gal/min)	Drawdown	Drill Stem/ Pump Depth	Duration (hr)
Air	16		700	3

Temperature 54 °F Lab analysis Yes By _____
 Water quality concerns? Yes (describe below) TDS amount 281 ppm
 From To Description Amount Units

438	452	mineralized orange water		
-----	-----	--------------------------	--	--

(9) LOCATION OF WELL (legal description)
 County YAMHILL Twp 3.00 S N/S Range 3.00 W E/W WM
 Sec 21 SE 1/4 of the NW 1/4 Tax Lot 602
 Tax Map Number _____ Lot _____
 Lat _____ " or 45.29854400 DMS or DD
 Long _____ " or -123.06378000 DMS or DD
 Street address of well Nearest address
NYA WORDEN HILL RD NEWBERG, OR 97132

(10) STATIC WATER LEVEL

Existing Well / Pre-Alteration	Date	SWL (psi)	+ SWL (ft)
Completed Well	10/23/2024		322

Flowing Artesian? Dry Hole?
 WATER BEARING ZONES Depth water was first found 438.00

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
10/17/2024	438	452	22		261
10/22/2024	505	528	13		322
10/23/2024	648	651	3		322

(11) WELL LOG Ground Elevation _____

Material	From	To
gravel fill	0	2
clay red/brown	2	12
clay brown w/decoup rock	12	15
rock soft brown decoup	15	58
basalt gray med fract/bkn	58	94
basalt gray med very fract w/clay seams	94	102
basalt gray med vesic/fract	102	109
basalt gray bkn loose	109	118
basalt gray med-lrd fract	118	125
basalt gray/brown bkn whtd	125	156
clay tan & gray firm	156	172
basalt decoup brown whtd occ vesic	172	194
basalt gray fract/bkn	194	200
basalt gray very bkn caving	200	220
basalt gray bkn loose	220	260
basalt gray bkn loose	260	288
basalt gray bkn fract loose	288	328
basalt gray fract vesic	328	338
basalt decoup tan/brown vesic	338	342

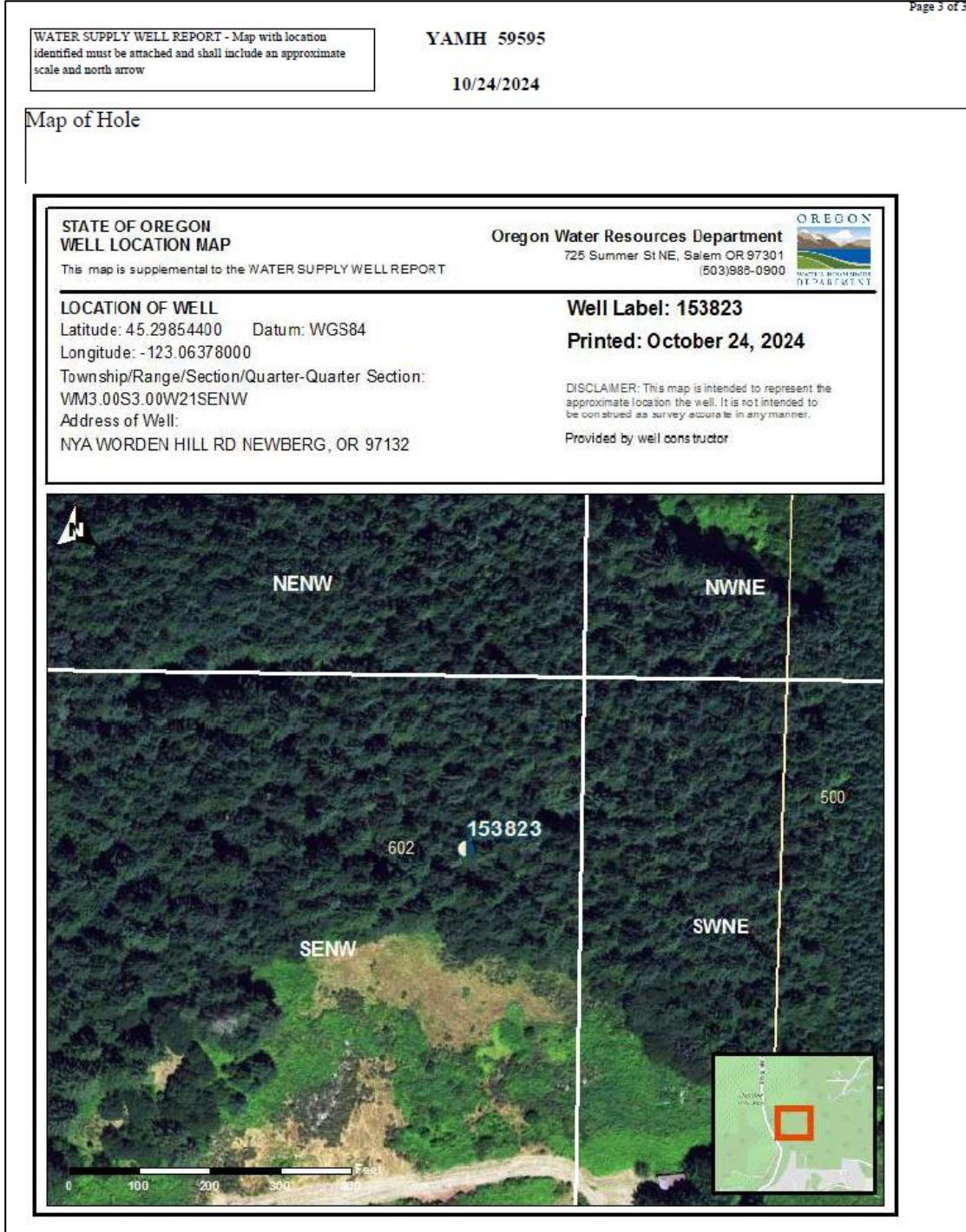
Construction Begin Date 10/10/2024 Begin Time 09 00 End Date 10/23/2024

(unbonded) Water Well Constructor Certification
 I certify that the work I performed on the construction, deepening, 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.
 License Number _____ Date _____
 Signed _____

(bonded) Water Well Constructor Certification
 I accept responsibility for the construction, deepening, 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.
 License Number 1483 Date 10/24/2024
 Signed JOHN STADELI (E-filed)
 Drilling Company: Arrow Drilling 503-538-4422

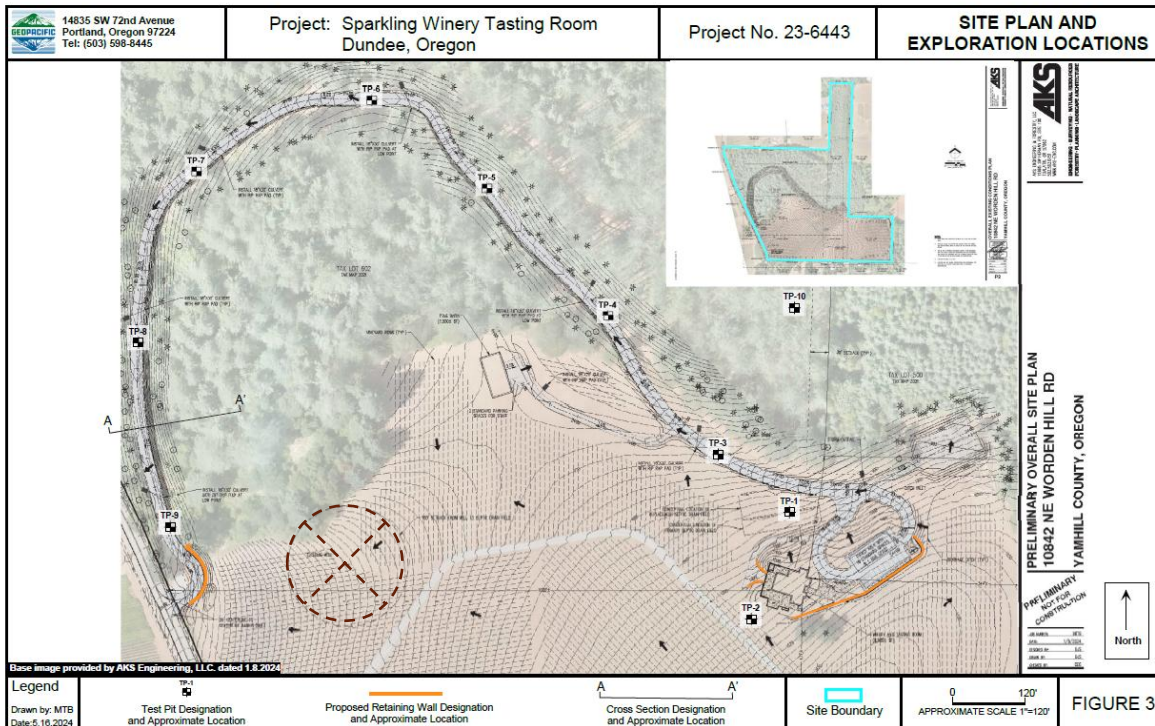
ORIGINAL - WATER RESOURCES DEPARTMENT
 THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:
 New exempt use wells must be submitted with a map and recording fee.

Well Log (continued)

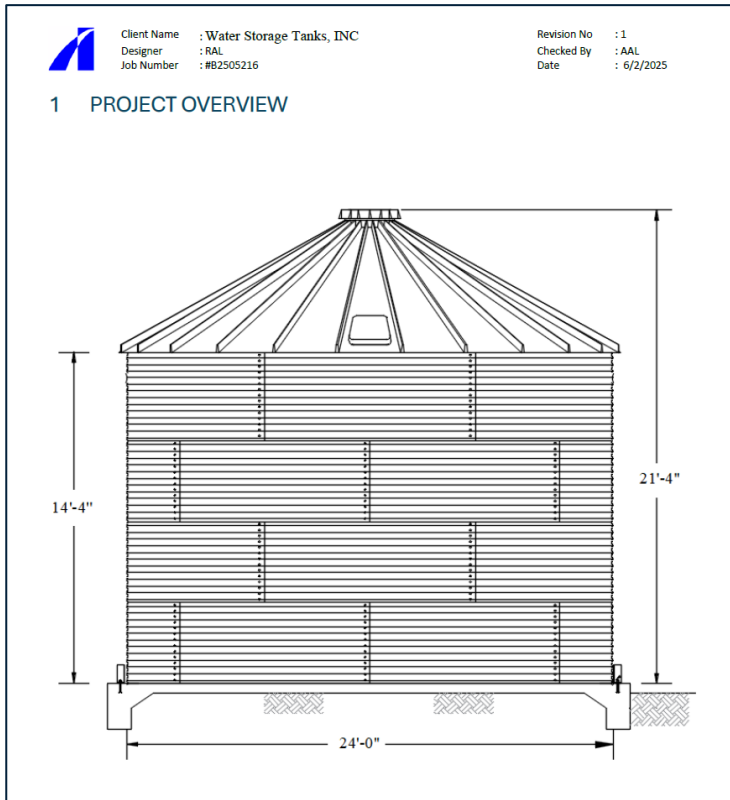


**Existing 1977 well YAMH4342 (irrigation well only – not approved for drinking water)
 link to WRD Map:**

https://apps.wrd.state.or.us/apps/gw/well_log/wl_details.aspx?wl_id=284784



46,000-Gallon Corrugated Steel Tank (CorGal Model# 2105-WT-CHR)



WATER STORAGE TANKS, INC.
1-800-463-1898
www.corgaltanks.com

DOTec Corp.
 Customized Engineering Solutions

STRUCTURAL CALCULATIONS
 OF
 PROPOSED WATER TANK - 24' DIA ; 14'4" EV HEIGHT AND 21'4" OVERALL HEIGHT,

PROJECT NO.: #B2505216
 CLIENT: Water Storage Tanks, INC

BILING ADDRESS:
 ADDRESS:
 CITY:
 STATE:
 ZIP:
 COUNTRY:

CLIENT CONTACT INFO
 CONTACT: Justin Franklin
 TEL: 737-242-2421
 FAX:
 MOBILE:
 E-MAIL: justin@waterstoragetanksinc.com

SITE ADDRESS:
 ADDRESS: Dundee
 CITY: Yamhill
 STATE: Oregon
 ZIP: 97115
 CONFIRM ZIP: 97115
 COUNTRY: USA

SEAL:

#	DATE	DESCRIPTION	PREPARED BY	CHECKED BY
01	6/2/2025	First Submittal	RAL	AAL
02				
03				

Acceptance and use of this report by any party constitutes a contractual agreement that the Engineers' total liability arising out of or in any way related to this analysis and report shall not exceed the total sum paid to the Engineer for the services provided. Liability does not exist beyond the analysis contained in this report.

Copyright: Dotec Engineering
 424 Jefferson St., St. Charles, MO 63301. Phone: (636) 724-9872

ASCE
 AMERICAN SOCIETY OF CIVIL ENGINEERS

ASCE Hazards Report

Address: 97115 Dundee, Oregon
 Standard: ASCE/SEI 7-16
 Risk Category: IV
 Soil Class: D - Default (see Section 11.4.3)
 Latitude: 45.276373
 Longitude: -123.016986
 Elevation: 207.50120281457896 ft (NAVD 88)

Wind

Results:
 Wind Speed: 107 Vmph
 10-year MRI: 66 Vmph
 25-year MRI: 72 Vmph
 50-year MRI: 76 Vmph
 100-year MRI: 82 Vmph

Data Source: ASCE/SEI 7-16, Figs. 26.5-1D and Figs. CC-2-1-CC-2-4, and Section 26.5.2
 Date Accessed: Wed May 28 2025

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 1.6% probability of exceedance in 50 years (annual exceedance probability = 0.00033, MRI = 3,000 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

<https://ascehazards.com/> Page 1 of 3 Wed May 28 2025

ASCE
 AMERICAN SOCIETY OF CIVIL ENGINEERS

Seismic

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S _B :	0.862	S _{D1} :	N/A
S ₁ :	0.421	T _L :	16
F _a :	1.2	PGA :	0.399
F _v :	N/A	PGA _M :	0.479
S _{MS} :	1.034	F _{PGA} :	1.201
S _{M1} :	N/A	I _e :	1.5
S _{DS} :	0.689	C _v :	1.231

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Wed May 28 2025
 Date Source: [USGS Seismic Design Maps](https://www.usgs.gov/seismic-design-maps)

E. DESIGN CRITERIA - SEISMIC LOADING
 Seismic Design Information Input ASCE 7-16 Section 15.7 and AWWA D103-19 Section 14

- * Location: Dundee, Oregon
- * Zip Code: 97115
- * Risk Category: IV
- * Seismic Use Group: 4 Section 14.1 Table 2 page 46 AWWA D103-19
- * Site Class: D Section 11.4.2 Page 65
- * $I_E := 1.5$
- * $S_S := 0.862$ For 5% Damped at 0.2 sec Period
- * $S_j := 0.421$ For 5% Damped at 1.0 sec Period
- * $F_a := 1.2$ Table 11.4-1
- * $F_v := 1.8$ Table 11.4-2
- * $S_{MS} := F_a \cdot S_S = 1.034$
- * $S_{M1} := F_v \cdot S_1 = 0.758$
- * $S_{DS} := \left(\frac{2}{3}\right) \cdot S_{MS} = 0.69$ EQ 11.4-1
- * $S_{D1} := \left(\frac{2}{3}\right) \cdot S_{M1} = 0.505$ EQ 11.4-2
- * SDC: C Section 11.6

Tank Design Information Input

- * Tank Diameter, $D_i := D = 24 \text{ ft}$
- * Tank Shell Height, $H_t := TEH = 14.33 \text{ ft}$
- * Freeboard, $FB := 0.5 \text{ ft}$
- Maximum Liquid height, $H_L := H_t - FB = 13.83 \text{ ft}$

- * Fluid Density, $\gamma := 62.4 \text{ pcf}$
- * Volume of Tank, $V := \frac{\pi \cdot D^2}{4} \cdot TEH = 48494.257 \text{ gal}$
- Total weight of Tank Contents, $W_T := \gamma \cdot V = 404.523 \text{ kip}$

Sloshing/Freeboard Design 14.3.4.4 AWWA D103-19

$T_c = 2.864 \text{ s}$ * Seismic_Risk_Category = 4
 As per EQ 14-46, 14-47, 14-48, 14-49

$A_f = 0.265 \frac{1}{s}$

Height of Sloshing Wave $\delta_{S2} := 0.42 \cdot D_i \cdot A_f \cdot s = 2.667 \text{ ft}$ EQ 14-45

* Minimum Free Board Required $FB_{min} := 0.42 \cdot D_i \cdot A_f \cdot s = 2.667 \text{ ft}$ Table 6 on pg 65

Anchor Bolt Design Based on Seismic Loads

- * Anchor Bolt Diameter $d_{anc} := da = 0.75 \text{ in}$ Minimum Diameter per Section 5.9.4
- Tank Circumference, $C := \pi \cdot D_i = 75.398 \text{ ft}$
- * Number of Anchor Bolts $N := Na = 16$ Enter number of bolts used

GENERAL NOTES		
CODES		
INTERNATIONAL BUILDING CODES	2022	
ASCE 7	2016	
HOT ROLLED SECTION	AISC 15TH (360-16): ASD	
CONCRETE	ACI 318-99	
GENERAL DESIGN CRITERIA		
OCCUPANCY RISK FACTOR	IV	
DESIGN LOADS		
ROOF LOADS		
DEAD LOADS		OWT. OF THE TANK
LIVE LOAD		20 PSF
GROUND SNOW LOAD : (Internal Area)		75 PSF
WIND DESIGN DATA		
WIND SPEED : (Internal Area)		107 MPH , EXP. C
EARTHQUAKE DESIGN DATA		
SEISMIC FORCE RESISTING SYSTEM :		
STEEL INTERMEDIATE MOMENT FRAME : R = 3.0		
IEQ = 1.5 ; S _s = 0.862 g ; S ₁ = 0.421 g		
Site Class is D		
SDS = 0.689 ; SD1 = 0.565 ; SDC "C"		
DESIGN BASE SHEAR:		
C _s = 0.45		

GENERAL NOTES

CODES

INTERNATIONAL BUILDING CODES 2022

ASCE 7 2016

HOT ROLLED SECTION AISC 15TH (360-16): ASD

CONCRETE ACI 318-99

GENERAL DESIGN CRITERIA

OCCUPANCY RISK FACTOR IV

DESIGN LOADS

ROOF LOADS

DEAD LOADS OWT. OF THE TANK

LIVE LOAD 20 PSF

GROUND SNOW LOAD : (Internal Area) 75 PSF

WIND DESIGN DATA

WIND SPEED : (Internal Area) 107 MPH , EXP. C

EARTHQUAKE DESIGN DATA

SEISMIC FORCE RESISTING SYSTEM:

STEEL INTERMEDIATE MOMENT FRAME : R = 3.0


IEQ = 1.5 ; S_s = 0.862 g ; S₁ = 0.421 g

Site Class is D

SDS = 0.689 ; SD1 = 0.565 ; SDC "C"


DESIGN BASE SHEAR:

C_s = 0.45



1 SITE MAP
S.O. N.T.B.

Dundee, Yamhill, Oregon, 97115



WATER STORAGE TANKS, INC.
1-800-463-1898
www.corgaltanks.com

Dr. Al Gonzalez P.E.
 DOTec Engineering
 118N 2nd St,
 St. Charles, MO 63301
 Ph 636-218-7264
 Fx 573-639-3334
 WWW.DOTECENGINEERING.COM
 ALG@DOTECENGINEERING.COM


REGISTERED PROFESSIONAL ENGINEER
 85747PE
 OREGON
 AUGUST 19, 2011
 ALFONSO GONZALEZ

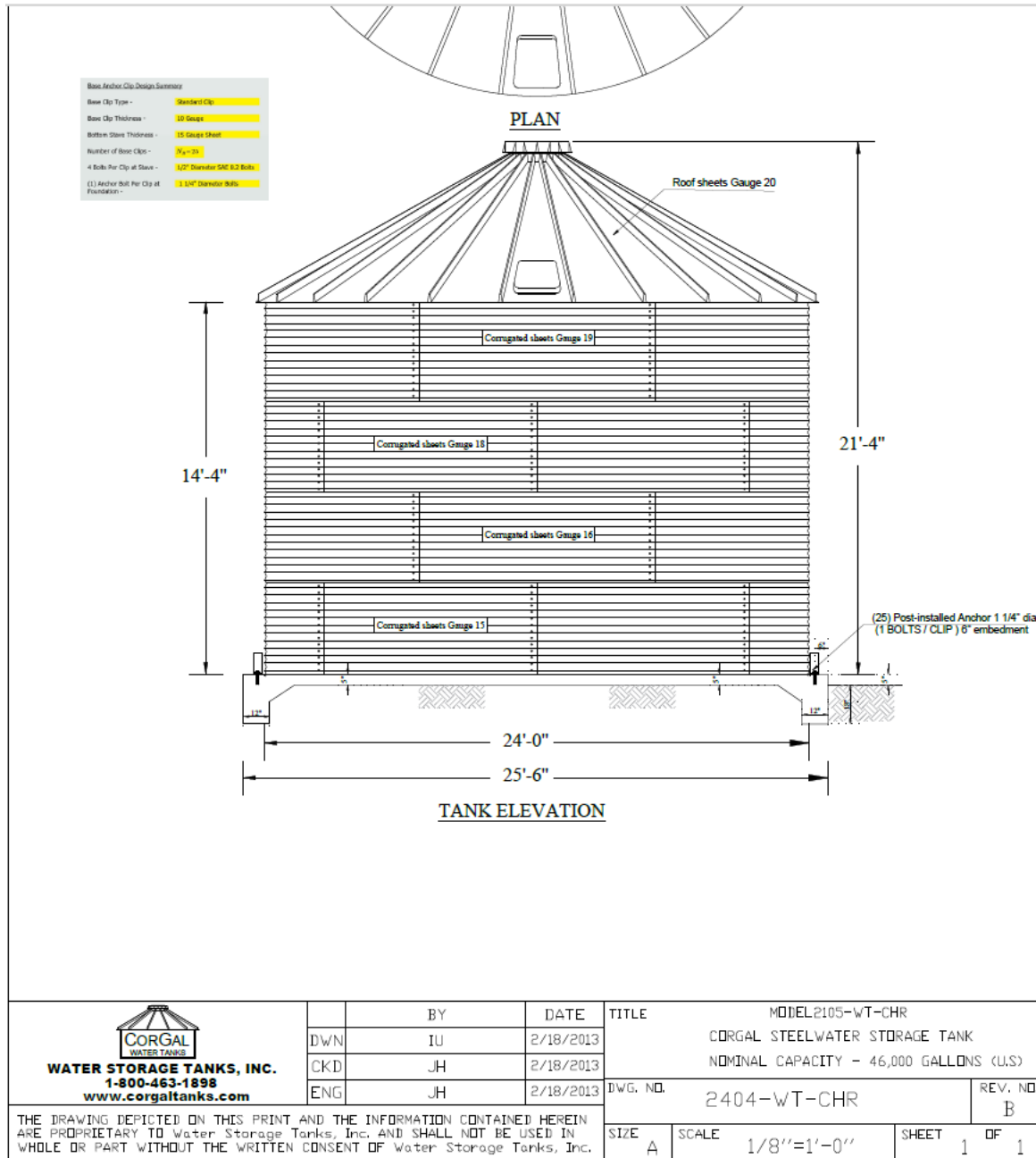
PROFESSIONAL SEAL
05-30-2025

1. THE INFORMATION ON THIS SET OF CONSTRUCTION DOCUMENTS IS RELATED TO BASIC DESIGN INTENT AND FRAMING DETAILS. THEY ARE INTENDED AS A CONSTRUCTION AID, NOT A SUBSTITUTE FOR GENERALLY ACCEPTED GOOD BUILDING PRACTICES AND COMPLIANCE WITH CURRENT APPLICABLE BUILDING CODES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING STANDARD CONSTRUCTION DETAILS AND PROCEDURES TO ENSURE A PROFESSIONALLY FINISHED, STRUCTURALLY SOUND AND WEATHERPROOF COMPLETED PRODUCT.
 2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK AND CONSTRUCTION MEETS OR EXCEEDS ALL CURRENT FEDERAL, STATE, COUNTY AND LOCAL CODES, ORDINANCES AND REGULATIONS, ETC. THESE CODES ARE TO BE CONSIDERED AS PART OF THE SPECIFICATIONS FOR THIS BUILDING AND SHOULD BE ADHERED TO EVEN IF THEY ARE IN VARIANCE WITH THE PLAN.
 3. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DRAWINGS (DO NOT SCALE DRAWINGS)
 4. THE DESIGNER HAS NOT BEEN ENGAGED FOR CONSTRUCTION SUPERVISION AND ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION COORDINATING WITH THESE PLANS, NOR RESPONSIBILITY FOR CONSTRUCTION METHODS, TECHNIQUES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THERE ARE NO WARRANTIES FOR A SPECIFIC USE EXPRESSED OR IMPLIED IN THE USE OF THESE PLANS.
 5. GENERAL CONTRACTOR TO CONSULT AND COORDINATE WITH OWNER FOR ALL BUILT-IN ITEMS SUCH AS BOOKCASES, SHELVING, PANTRY, CLOSETS, TSM, ETC.
 6. WIND LOAD REQUIRED CONNECTIONS SHALL BE TAKEN INTO ACCOUNT DURING CONSTRUCTION
7. THE CONTRACTOR SHALL SUBMIT TITLE FOR PAY & SECURE ALL APPROVALS, BUILDING PERMITS, FIRE PERMITS, TEST AND CERTIFICATES OF COMPLIANCE & OCCUPANCY.
 8. THE DIMENSIONS ON THESE DRAWINGS IN ALL CASES SUPERSEDE SCALE. CONTRACTOR IS NOT TO SCALE DRAWING. ALL DIMENSIONS IS TO FINISH.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RUBBISH SWEEP UP & REMOVED. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL LEAVE WORK IN A FINISHED CONDITION.
 10. IT WILL BE THE DUTY OF THE CONTRACTORS TO COMMUNICATE IMMEDIATELY WITH EACH OTHER IN ORDER TO SCHEDULE WORK, STORAGE AREAS, ETC. IN AN APPROVED MANNER AND WITHIN THE TIME SPECIFIED.

- GENERAL CONSTRUCTION NOTES
1. THE INFORMATION ON THIS SET OF CONSTRUCTION DOCUMENTS IS RELATED TO BASIC DESIGN INTENT AND FRAMING DETAILS. THEY ARE INTENDED AS A CONSTRUCTION AID, NOT A SUBSTITUTE FOR GENERALLY ACCEPTED GOOD BUILDING PRACTICES AND COMPLIANCE WITH CURRENT APPLICABLE BUILDING CODES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING STANDARD CONSTRUCTION DETAILS AND PROCEDURES TO ENSURE A PROFESSIONALLY FINISHED, STRUCTURALLY SOUND AND WEATHERPROOF COMPLETED PRODUCT.
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 6. WIND LOAD REQUIRED CONNECTIONS SHALL BE TAKEN INTO ACCOUNT DURING CONSTRUCTION

SHEET INDEX	
SHEET	DESCRIPTION
01	FOUNDATION
02	TANK FLOORING
03	ANCHOR BOLTS

<p>CLIENT: WATER STORAGE TANKS, INC. ADDRESS: Dundee, Yamhill, Oregon, 97115</p>	<p>Dr. Al Gonzalez P.E. DOTec Engineering 118N 2nd St, St. Charles, MO 63301 Ph 636-218-7264 Fx 573-639-3334 WWW.DOTECENGINEERING.COM ALG@DOTECENGINEERING.COM</p>	 
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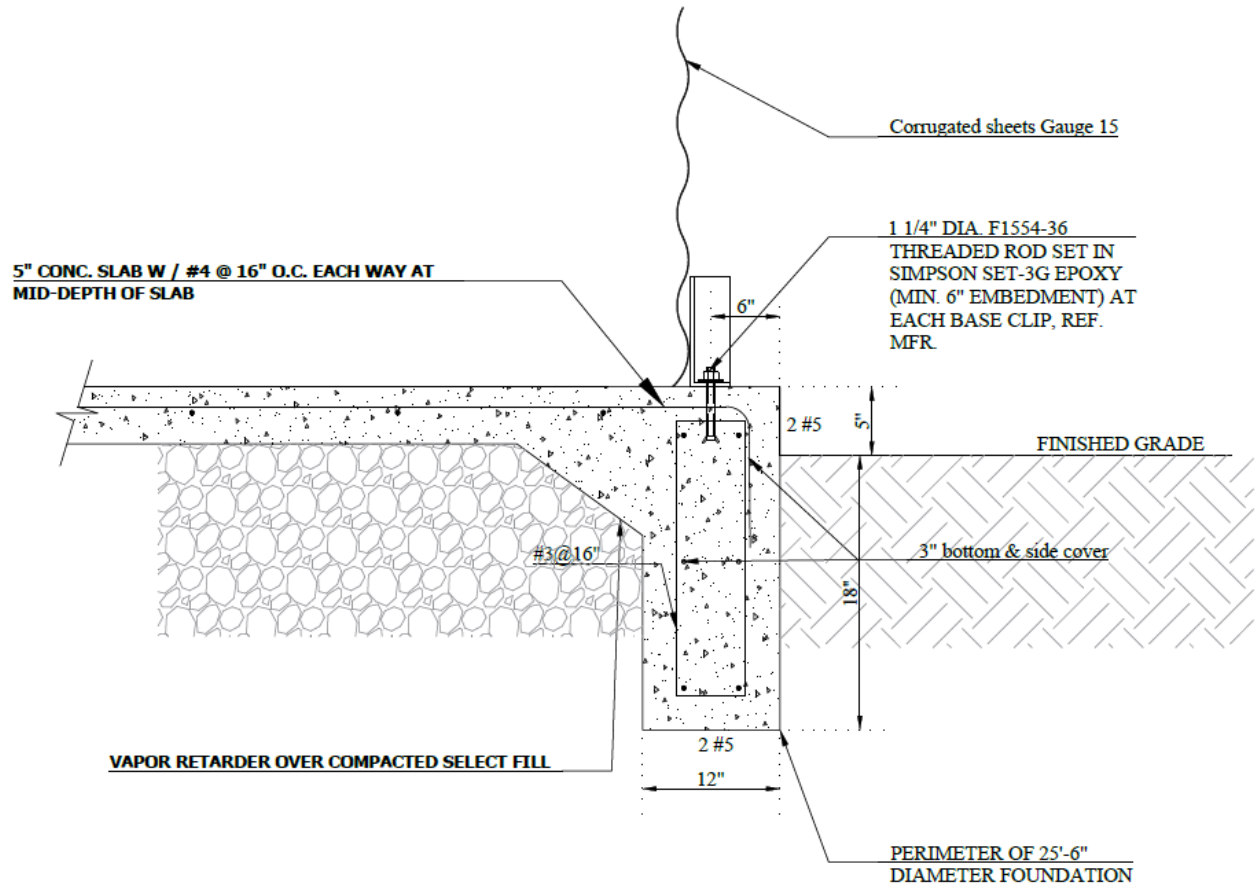
PROJECT NAME: OVS - Austin Sparkling Fire Tank

TANK SPECIFICATION DATA	PROJECT SITE DATA
TANK MODEL NUMBER: 2404 WT-CHR	DESIGN TO WHAT NATIONAL BUILDING CODE: NFPA-22
TANK DIAMETER: 24'	CITY: Dundee
TANK EAWE HEIGHT: 14'-4"	COUNTY OR PARISH: Yamhill
TANK OVERALL HEIGHT: 21'-4"	STATE OR PROVINCE: OR
ROOF STYLE: CHR	COUNTRY: USA
ROOF SLOPE: 30 Degree	ZIP OR POSTAL CODE: 97115
ROOF OUTSIDE DIAMETER: NA	RISK CATEGORY (select one): <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input checked="" type="radio"/> IV
IS TANK TO BE INSTALLED AT GROUND LEVEL: Yes	ULTIMATE WIND SPEED: 107 Vmph
TANK CONTENTS: Water	WIND EXPOSURE CLASS: C
CONTENTS TEMPERATURE RANGE: Ambient	GROUND SNOW LOAD: 75 lb/ft ²
SITE COORDINATES: Lat: 45.2978222 Long: -123.0661131	IS SNOW LOAD REDUCIBLE: <input type="radio"/> Y <input checked="" type="radio"/> N
SOIL SITE CLASS: See Geotech Report	DESIGN TO NFPA-22: <input checked="" type="radio"/> Y <input type="radio"/> N
SEISMIC S(1): .39 S(5): .06	

ANY BELOW GROUND OR ABOVE GROUND ISSUES:
 Seismic Design Category - D

Base Anchor Clip Design Summary

Base Clip Type -	Standard Clip
Base Clip Thickness -	10 Gauge
Bottom Stave Thickness -	15 Gauge Sheet
Number of Base Clips -	$N_B = 25$
4 Bolts Per Clip at Stave -	1/2" Diameter SAE 8.2 Bolts
(1) Anchor Bolt Per Clip at Foundation -	1 1/4" Diameter Bolts



Geotechnical Report for Other Structures - Not for Tank (The GeoPacific report uses Site Class C and the tank design uses Site Class D)

Geotechnical Engineering Report
 Project № 23-6443 Sparkling Winery Tasting Room, Dundee, Oregon

Typically, no permanent slopes steeper than 2H:1V are allowed. However, since the proposed cuts for the roadway will not affect adjacent properties or structures, and since there are not existing structures within the influence zone above the proposed cuts, permanent grades steeper than 2H:1V are being considered. It is our understanding that the main reason why steep, permanent cutslopes are being considered is to minimize the volume of soil to be exported from the site, minimize the expense of construction, and to preserve as much of the existing natural vegetation and cultivated plants as feasible.

8.0 SEISMIC DESIGN

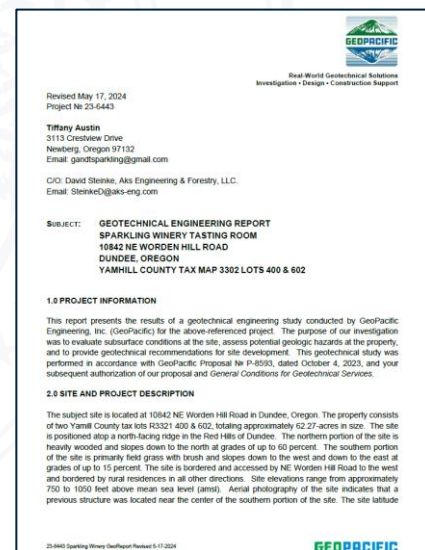
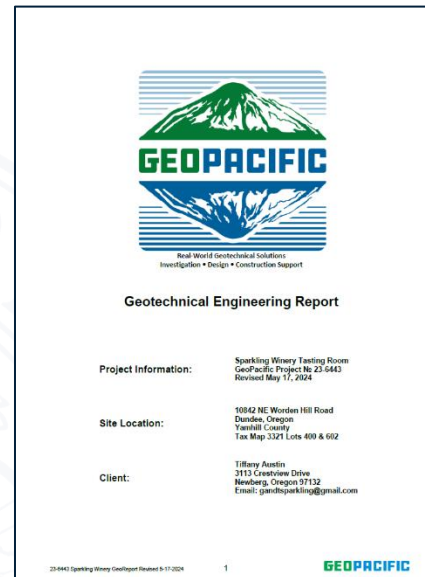
The Oregon Department of Geology and Mineral Industries (DOGAMI), Oregon HazVu: 2023 Statewide GeoHazards Viewer indicates that the site is in an area where severe ground shaking is anticipated during an earthquake. Structures should be designed to resist earthquake loading in accordance with the methodology described in the 2021 International Building Code (IBC) with applicable Oregon Structural Specialty Code (OSSC) revisions (current 2022). We recommend Site Class C be used for design as defined in ASCE 7-16, Chapter 20, and Table 20.3-1. Design values determined for the site using the ATC Hazards by Location 2023 Seismic Design Maps Summary Report are summarized in Table 7 and are based upon observed existing soil conditions.

Table 7 - Recommended Earthquake Ground Motion Parameters (ASCE-7-16)

Parameter	Value
Location (Lat, Long), degrees	45.2934291, -123.0650582
Probabilistic Ground Motion Values, 2% Probability of Exceedance in 50 yrs	
Site Modified Peak Ground Acceleration PGA_M	0.488 g
Short Period, S_s	0.876 g
1.0 Sec Period, S_1	0.431 g
Soil Factors for Site Class C:	
F_a	1.2
F_v	1.5
$SD_s = 2/3 \times F_a \times S_s$	0.701 g
$SD_1 = 2/3 \times F_v \times S_1$	0.431 g
Seismic Design Category	D

8.1 Soil Liquefaction

The Oregon Department of Geology and Mineral Industries (DOGAMI), Oregon HazVu: 2023 Statewide GeoHazards Viewer indicates that the site is not mapped as being at risk of soil liquefaction during an earthquake. Soil liquefaction is a phenomenon wherein saturated soil deposits temporarily lose strength and behave as a liquid in response to ground shaking caused by strong earthquakes. Soil liquefaction is generally limited to loose sands and granular soils located below the water table, and fine-grained soils with a plasticity index less than 15.



Luminor® NSF-55 Class A UV Unit (18-GPM Blackcomb-HO Model #LBH6-40XA)

LUMINOR BLACKCOMB
NSF STANDARD, CLASS A

VALIDATED PERFORMANCE
Independently Certified for Primary Disinfection

NSF
System Tested and Certified by NSF International against the NSF-55 Class A UV system in pool application.

PRODUCT FEATURES

- True 254nm Tetra® based UV sensor measures continuously, displaying UV intensity as a % - standard on LBH / LBH6 units ONLY
- Colour screen controller with LightLock™ for protected lamp replacement
- Expandability point for future upgrades and options
- Axial flow, stainless steel polished reactor, designed & manufactured to ASME pressure vessel standards
- Simple lamp changes
- Reliable, industry proven, proprietary low pressure coated UV lamps with ceramic bases for durability and long life
- Constant current electronic controller in a splash proof case
- Full customization available as an option - language, home screen, alarm numbers, QR codes, etc.

CONDITIONS FOR USE

Your system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the system to perform as tested, the following water quality parameters must be met.

PARAMETER	LEVEL
Hardness	< 120 mg/L (7 gpg)
Iron (Fe)	< 0.3 mg/L (5 ppm)
Manganese (Mn)	< 0.05 mg/L (1 ppm)
Turbidity	< 0.1 mg/L (1 ppm)
Turbidity	< 1 NTU
Temperature	> 75°F

For levels outside those specified in the table above, please contact the factory for further technical assistance.

SAMPLE SCREENS

MANUFACTURER'S WARRANTY

REACTORS - Ten (10) Year Limited Warranty
 ELECTRONICS - One (1) Year Limited Warranty
 UV LAMPS - One (1) Year Limited Warranty
 QUARTZ GLASS - One (1) Year Limited Warranty

See specifications for complete warranty document including conditions and limitations.

LUMINOR
WATER TREATMENT

BLACKCOMB NSF STANDARD 55, CLASS A - EQUIPMENT SPECIFICATIONS

MODEL	BLACKCOMB (Standard-output)					BLACKCOMB-HO (High-output, compact design)				
	LB6-02XA LB6-02A-12V	LB6-03XA LB6-03A-12V	LB6-06XA LB6-06A-12V	LB6-10XA	LB6-15XA	LBH6-05XA	LBH6-10XA	LBH6-15XA	LBH6-25XA	LBH6-40XA
NSF Class A Flow Rate (40mJ/cm² @ 70% UVT)	1.6 GPM 6.1 lpm 0.36 m³/hr	2.2 GPM 8.3 lpm 0.5 m³/hr	3.4 GPM 12.9 lpm 0.77 m³/hr	6.3 GPM 23.8 lpm 1.43 m³/hr	7.9 GPM 29.9 lpm 1.79 m³/hr	2.2 GPM 8.3 lpm 0.5 m³/hr	4.0 GPM 15.1 lpm 0.91 m³/hr	5.4 GPM 20.4 lpm 1.23 m³/hr	7.9 GPM 29.9 lpm 1.79 m³/hr	18.0 GPM 68.1 lpm 4.08 m³/hr
Flow Restrictor	Integral									
Port Size	½"FNPT	½"MNPT	¾"MNPT	¾"MNPT	1"MNPT	¾"MNPT	¾"MNPT	1"MNPT	1"MNPT	1 ½"MNPT
Electrical	90-265V/50-60Hz / 12VDC as indicated									
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, replace "X" with "1" suffix (i.e. LB6-101A) European, CEE 7/7, 3 wire for all 230V systems, replace "X" with "2" suffix (i.e. LB6-102A) British Standard, BS 1363, 3 wire for all 230V systems, replace "X" with "3" suffix (i.e. LB6-103A) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, replace "X" with "4" suffix (i.e. LB6-104A)									
Lamp Watts	8	15	22	39	50	18	34	45	67	101
Power (Watts)	14	20	30	49	62	20 (19 @ 230V)	38 (36 @ 230V)	57 (48 @ 230V)	73 (72 @ 230V)	115 (108 @ 230V)
Maximum Current (amps)	1	1	1	1	1	1	1	1	1	1
Replacement Lamp	RL-210	RL-290	RL-470	RL-820	RL-999	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-290	RQ-470	RQ-820	RQ-999	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Replacement UV Sensor	RS-B2.5V	RS-B2.5V	RS-B2.5V	RS-B2.5V	RS-B2.5V	RSHO-B3.5V	RSHO-B3.5V	RSHO-B3.5V	RSHO-B3.5V	RSHO-B3.5V
Chamber Material	Polished 304 stainless steel, A249 pressure rated tubing					Polished 316L stainless steel, A249 pressure rated tubing				
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2cm)	2.5 x 14.3" (6.4 x 36.4cm)	2.5 x 21.3" (6.4 x 54.2cm)	2.5 x 35.2" (6.4 x 89.5cm)	2.5 x 40.0" (6.4 x 101.6cm)	3.5 x 11.7" (8.9 x 29.8cm)	3.5 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	6.8 x 3.6 x 4" (17.2 x 9.2 x 10.2 cm)					8.6 x 4.2 x 4" (21.8 x 10.7 x 10.2 cm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)									
Operating Water Temp.	2-40° C (36-104°F)									
UV Monitor	YES									
Solenoid Output	YES (but requires optional solenoid module) (MOD-SOL)									
Dry Contacts	YES (but requires optional remote alarm module) (MOD-RAM)									
4-20mA Output	YES (but requires optional 4-20mA module) (MOD-420)									
Lamp Change Reminder	YES (both audible and visual (full colour graphic))									
Lamp Out Indicator	YES (both audible and visual (full colour graphic))									
Shipping Weight	3.0 kg (6.6 lbs)	3.3 kg (7.3 lbs)	4.2 kg (9.3 lbs)	6.8 kg (15.0 lbs)	8.0 kg (17.6 lbs)	4.5 kg (9.9 lbs)	5.4 kg (11.9 lbs)	6.0 kg (13.2 lbs)	7.3 kg (16.1 lbs)	9.8 kg (21.6 lbs)

NSF-44 Water Softener (Water-Right Impression Plus Model #) w/NSF-60 SureSoft® Salt

Impression Plus Series® Softeners

The Meter
Water usage is electronically monitored and the system is automatically regenerated based on actual water consumption. The controller can anticipate higher water usage based on previous trends and regenerate the system, as needed, to ensure the availability of quality water. Likewise, when water usage is low, the system regenerates less often, saving on salt and water.

The Electronics
The microprocessor captures all operations, including gallons per day, total gallons, peak flow rates, and total regenerations. Time and history is held in memory and protected by a built-in battery backup.

The Control Valve
A rugged, Noryl™ control valve handles high flow rates without dropping household water pressures — like when showers, toilets and faucets are all in use at the same time.

NSF/ANSI 44 Tested and Certified
These softeners conform to NSF/ANSI 44 for the specific performance claims as verified and substantiated by test data.

Cabinet Design
The high profile cabinet (HPC) offers excellent space savings while still allowing up to 150 lbs salt storage. Its top sliding cover opens to a large tapered chute for ease of adding salt to the system without removing the cover.

The low profile allows full access to the control valve for programming and servicing without having to remove the cover.

High Profile Option
Low Profile Option

Your local water treatment professional.

High-Purity Water Softener Salt

SureSoft
ExtraCoarse Crystals

PROVEN PERFORMANCE FOR FAMILY AND HOME

40 lb (18.1 kg) Net Weight (11.7 kg)

NSF
CERTIFIED TO NSF/ANSI/CAN 60

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

NSF-42 Cartridge Filter (DGD Series Model #)

CARTRIDGES



DGD SERIES SEDIMENT CARTRIDGES

Sized for use in Big Blue filter housings, these cartridges will not impact taste, odor or color of the liquid being filtered. The polypropylene construction provides exceptional chemical resistance. The DGD Series' advanced design combines selective final filtration with appropriate prefiltration to achieve up to three times the dirt-holding capacity of similar size sediment cartridges and even greater capacity than standard spun or string wound cartridges. The larger diameter of the filter reduces the particle load, allowing it to operate at higher velocities. The effective filter depth is increased to a full 233%. This increased depth provides very high particulate reduction efficiencies and added loading capacity. The design and performance characteristics of the DGD cartridges make them an excellent choice for residential, rural, municipal and commercial applications.

TECHNICAL FEATURE	BENEFIT
Manufactured from 100% polypropylene	→ Provides exceptional chemical resistance
Combines two separate gradient layers in one filter	→ Selective final filtration with appropriate pre-filtration
The effective filter depth is increased to a full 233% of standard spun-polypropylene or string wound filters	→ Provides high particulate reduction efficiencies and added loading capacity



Tested and Certified by NSF International to NSF/ANSI Standard 42 for material requirements only.

SPECIFICATIONS	
Filtration Media	Spun Polypropylene
Length	10"BB, 20"BB
Micron Rating	1 micron: DGD-2501 5 micron: DGD-5005 25 micron: DGD-7525
Flow Rate	10BB: 10 gpm @ 1psi (37.6 Lpm @ 0.69 bar) 20BB: 20 gpm @ 1psi (75.7 Lpm @ 0.69 bar)
Contaminant	Sediment
Capacity	6-12 Months
Temperature Rating	40-145°F (4.4-62.8°C)

114 | RESIDENTIAL FILTRATION
2024 FILTRATION PRODUCT CATALOG

NSF-372 Horizontal Multi-Stage Pump (MH Series Model



MH SERIES (15-30-45 GPM) HORIZONTAL MULTI-STAGE PUMPS

The FPS MH Series, Multi-Stage Booster Pump is designed to meet your pressure boosting needs. The stainless steel construction offers high performance in a wide variety of applications. The MH Series is offered in three flow rates and five different horsepower sizes in 1-phase or 3-phase to make sure you can have the right pump to fit your application.

FEATURES

- All 300 Series stainless steel wetted components
- High service factor motors
- Able to pump fluids at temperatures up to 225 °F
- Can operate in suction lift installation up to 10 feet
- Available in the flow rates of 15, 30 and 45 gpm
- Five motor horsepower size options in single-phase or three-phase
- High pressure capabilities up to 140 psi
- Certified for indoor and outdoor use
- NSF/ANSI/CAN 372 Certified



APPLICATIONS

- Pressure Boosting
- Water Transfer
- Turf Irrigation
- Residential Lawn Sprinkler Systems
- Wash Down Applications
- Commercial Water Features
- Fountains

SINGLE-PHASE ORDERING INFORMATION

GPM	Suction x Discharge	HP	Stages	Voltage	S.F.A	Model No.	Order No.	Wt. (lbs.)
15	1.25" x 1"	0.5	2	115/230	9.4/4.7	15FMH15S2	96061500	22
		0.75	3	115/230	12.4/6.2	15FMH17S3	96061501	25
		1	4	115/230	14.8/7.4	15FMH15S4	96061502	29
		1.5	5	115/230	19.9/9.95	15FMH15S5	96061503	35
		2	6	115/230	24.0/12.0	15FMH12S6	96061504	40
		0.75	2	115/230	12.4/6.2	30FMH17S2	96063000	25
30	1.25" x 1"	1	3	115/230	14.8/7.4	30FMH15S3	96063001	33
		1.5	4	115/230	19.9/9.95	30FMH15S4	96063002	37
		2	5	115/230	24.0/12.0	30FMH12S5	96063003	41
		1.5	2	115/230	19.9/9.95	45FMH15S2	96064500	33
45	1.50" x 1.25"	2	3	115/230	24.0/12.0	45FMH12S3	96064501	39

THREE-PHASE ORDERING INFORMATION

GPM	Suction x Discharge	HP	Stages	Voltage	S.F.A	Model No.	Order No.	Wt. (lbs.)
15	1.25" x 1"	0.5	2	208-230/460	3.0/1.5	15FMH15S2-T	96061510	24
		0.75	3	208-230/460	3.6/1.8	15FMH17S3-T	96061511	24
		1	4	208-230/460	4.7/2.35	15FMH15S4-T	96061512	29
		1.5	5	208-230/460	6.8/3.4	15FMH15S5-T	96061513	34
		2	6	208-230/460	8.5/4.25	15FMH12S6-T	96061514	42
		0.75	2	208-230/460	3.6/1.8	30FMH17S2-T	96063010	24
30	1.25" x 1"	1	3	208-230/460	4.7/2.35	30FMH15S3-T	96063011	33
		1.5	4	208-230/460	6.8/3.4	30FMH15S4-T	96063012	36
		2	5	208-230/460	8.5/4.25	30FMH12S5-T	96063013	43
		1.5	2	208-230/460	6.8/3.4	45FMH15S2-T	96064510	32
45	1.50" x 1.25"	2	3	208-230/460	8.5/4.25	45FMH12S3-T	96064511	41

NSF-61 Fiberglass Pressure Tank (FlexCon FL2PRO Series Model #H2PL-)

Submittal Data
Flex2PRO Series
Water System Tanks

Job Name: _____ Schedule #: _____

Location: _____ Model #: _____

Engineer: _____ Representative: _____

Contractor: _____

Description

Flex2Pro (H2PL) series tanks are diaphragm type, pre-charged hydro-pneumatic tanks designed for residential and commercial water well, pressure booster, and irrigation systems.



Materials of Construction


Shell: Polypropylene tank reinforced w/ fiberglass and sealed w/ epoxy resin



Diaphragm: Butyl rubber w/ copolymer polypropylene lower water chamber

Connection: Rigid Sch. 80 PVC

Ratings


Max. Working Pressure: 125 PSI
 Max. Working Temp: 120 F
 Pre-Charge (adjustable): 38 PSI



Tank Specifications

Model	Diameter (inches)	Height (inches)	System Connection Schedule 80 (inches)	Volume (gallons)	Drawdown (gallons)			Weight (lbs)
					20/40	30/50	40/60	
H2PL 15	16.5	25.6	1	15	6.0	5.1	4.4	19
H2PL 22	16.5	34.1	1	22	8.8	7.5	6.5	24
H2PL 35	16.5	48.9	1	35	14.1	11.9	10.3	33.5
H2PL 38SQ	24.2	29.75	1 1/4	38	13.89	11.8	10.5	39.4
H2PL 42	21.4	37.0	1 1/4	40	16.1	13.6	11.8	38
H2PL 50	21.4	43.3	1 1/4	50	20.1	17.0	14.7	47
H2PL 65	21.4	51.3	1 1/4	65	26.1	22.1	19.1	58
H2PL 82	21.4	64.7	1 1/4	82	33.0	27.9	24.1	69.5
H2PL 90	24.2	57.0	1 1/4	90	36.2	30.6	26.5	77
H2PL 120	24.2	72.1	1 1/4	119	47.9	40.5	35.0	99.5



A Swan Group Company

300 Pond St • Randolph, MA 02368 • 800-527-0030 • 781-986-2029 FAX • www.flexconind.com

Sample Results – Coliform bacteria, nitrate, and arsenic were all non-detect.

WATERLAB CORP.
 ORELAP ID# OR100039

2603 - 12th Street, SE
 Salem, OR 97302
 Voice: (503) 363-0473
 FAX: (503) 363-8900

TEST REPORT

Stadeli Water Systems
 PO Box 832
 Silverton, OR 97381

SAMPLE INFORMATION
 Location: 11050 NE Worden Hill Dr, 97115/ well tap
 Date Sampled: 01/15/2025 Sample Type: Water
 Time Sampled: 1100 Collected by: Eric

CASE NARRATIVE
 The analyses were performed according to the guidelines in the WATERLAB Corp Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory. This report shall not be reproduced except in full without permission in writing.

WATERLAB Corp certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

TESTING INFORMATION
 Lab #: 20250115-063
 Date Received: 01/15/2025 Time Received: 1319 Received by: SW
 Date Started: 01/15/2025 Time Started: 1650 Tech: SW
 Date Read: 01/16/2025 Time Read: 1231 Tech: SW
 Date Reported: 01/16/2025 Reported By: SW
 *Chlorine Residual: N/A Amount of Sample Used: 100 mls
 Method Code: SM 20th ED 9223B P/A Collert 18 ©

TOTAL COLIFORM BACTERIA RESULTS
 Analysis shows Total Coliform Bacteria to be: **ABSENT**
 Absent= Acceptable Present= Unacceptable

E. COLI COLIFORM BACTERIA RESULTS
 Analysis shows E. coli Bacteria to be: **ABSENT**
 E. coli is a sub-section of Total Coliform and its presence in water indicates that raw

WATERLAB CORP.

2603 - 12th Street, SE
 Salem, OR 97302
 Voice: (503) 363-0473
 FAX: (503) 363-8900

TEST REPORT

TO: Stadeli Water Systems
 PO Box 832
 Silverton, OR 97381

1/27/2025
 STAWAT

PO#:

Collection Information
 Date: 1/15/2025
 Time: 1100
 By: Eric
 Lab #: 20250115-064
 Location: 11050 NE Worden Hill Dr 97115/ well tap

Lab Receipt Information
 1/15/2025
 1319
 SW

Case Narrative
 The analyses were performed according to the guidelines in the WATERLAB Corp Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory. This report shall not be reproduced except in full without permission in writing.

WATERLAB Corp certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

Analyte	Method	Acc*	Results	Qual	MRL	Units	EPA Limit	Analysis Date Time	Tech
Healthy Water Pkg 4A well/spring									
pH	EPA 150.1		6.80	H		pH units	6.5 - 8.5	1/15/2025 1415	as
Specific Conductance	SM2510B	A	600.		1.	umhos/cm		1/15/2025	as
Arsenic	SM3113B	A	ND		0.002	mg/l	0.010	1/22/2025	bem

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TEST REPORT

LAB #: 20250115-064 (Cont) STAWAT Page: 2

Analyte	Method	Acc*	Results	Qual	MRL	Units	EPA Limit	Analysis Date Time	Tech
Chloride	EPA300.0	A	2.83		0.3	mg/l	250	1/16/2025	as
Copper	SM3111 B	A	ND		0.1	mg/l	1.0	1/22/2025	bem
Fluoride	EPA300.0	A	0.210		0.2	mg/l	4.0	1/16/2025	as
Hardness as CaCO3	SM2340C	A	12.		10.	mg/l CaCO3	250	1/23/2025	as
Iron	SM3111B	A	1.09	EN	0.1	mg/l	0.3	1/22/2025	bem
Lead	SM3113 B	A	ND		0.001	mg/l	0.015	1/27/2025	bem
Manganese	SM3111B	A	ND		0.05	mg/l	0.05	1/22/2025	bem
Nitrogen, Nitrate	EPA300.0	A	ND		0.2	mg NO3-N/l	10.	1/16/2025 1530	as
Silica	H8185		31.1		1.	mg/l SiO2		1/24/2025	as
Sodium	SM3111B	A	142.		1.0	mg/l	20.	1/22/2025	bem
Sulfate	EPA300.0	A	ND		1.5	mg/l SO4	250	1/16/2025	as
Zinc	SM3111 B	A	ND		0.1	mg/l	5.0	1/22/2025	bem

Land Use Approval

3321-602



PUBLIC HEALTH DIVISION
Drinking Water Services

Oregon Health Authority

Land Use Compatibility Statement

Certain plan review approvals for drinking water projects have been identified by the Land Conservation and Development Commission as Class B permits affecting land use. The Oregon Health Authority is therefore required by ORS 197.180, OAR 660, division 30, OAR 660, division 31, the Oregon Health Authority's approved State Agency Coordination Program, and OAR 333-061-0062 to ensure that projects defined in OAR 333-061-0062(1) conform with statewide planning goals and are compatible with city and county comprehensive plans and land use regulations. In order to ensure such compatibility, this form or other acceptable documentation and necessary attachments must accompany each applicable set of project plans submitted to the Oregon Health Authority for review.

General Information

Project Title Austin Sparkling Project 11050 NE Worden Hill Rd Dundee - winery + tasting room

Applicant I Can't Afford This Property LLC
Name of Water System _____

Type of Project new source
Treatment, Transmission, Storage, Distribution, New Source, etc.

Project Contact Person Tiffany Austin, owner
Engineer, Owner, etc., including title _____

3113 Crestview Dr
Mailing Address _____

Newberg OR 97132 415.971.7185
City, State, Zip Code Phone

gandsparkling@gmail.com
Email Address _____

The local government entity* having comprehensive planning authority over the site of the proposed project is:

Agency Name Yamhill County Phone 503-434-7516

Address 400 NE Baker Street McMinnville Zip 97128

(*If the proposed project is located within the jurisdiction of more than one planning authority, all entities must certify compatibility.)

(Continued on Back)

1 revised 7/9/20

Complete either part A or part B.

A. Land Use Compatibility Determination - Planning Authority Statement
(to be completed by local planning authority)

I certify that this project has been reviewed for compatibility with:

- The acknowledged comprehensive plan and land use regulations.
- Statewide planning goals. The goals apply because conditions described in OAR 660-31-0025(3) exist.

I find that this project (check one) IS compatible - Direct Approval: SDR-03-24
 IS NOT compatible

Attach appropriate land use decision(s) written findings as required in ORS 215.416 (8) or (9), or 227.173 (1) or (2), or OAR 660-31-026.

Signature Tiffany Willis Date 10/24/2025

Print Name Tiffany Willis Title Associate Planner Yamhill County

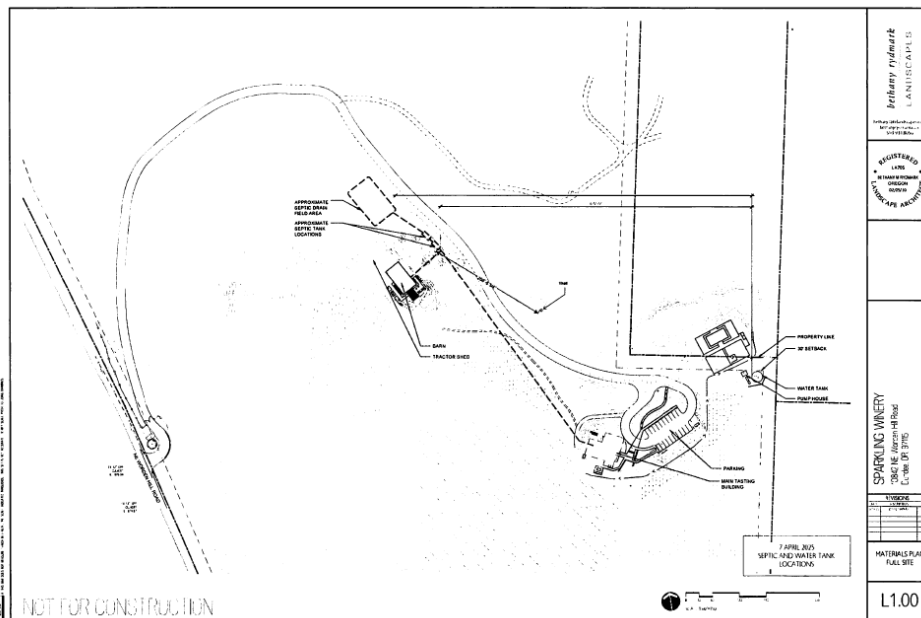
B. Request for Conditional Plan Review Approval, Pending Land Use Compatibility Determination (to be completed by applicant)

I hereby certify that I have applied to the local government entity cited on page 1 for a determination of compatibility with the local acknowledged plan or the statewide planning goals as applicable. I hereby request that the Authority issue a conditional approval of the plans with the understanding that issuance of said approval is not a finding of compliance with the statewide planning goals or compatibility with the applicable, acknowledged comprehensive plan and land use regulations, but is conditional upon the applicant receiving a land use approval from each unit of local government. I understand that final plan review approval for this project will not be effective until and unless the Oregon Health Authority receives a signed copy of the land use approval and determines it to be complete and adequate.

Signature _____ Date _____

Print Name _____ Title _____

2 revised 7/9/20



Water Right Information

Hofeld Evan E

From: PLAHN Joel M * WRD <Joel.M.PLAHN@water.oregon.gov>
Sent: Friday, January 23, 2026 9:35 AM
To: Christiane Kraemer
Cc: Tiffany Austin; leta@taylorlombardo.com; Kaleb Dark
Subject: RE: 11050 NE Worden Hill Rd. Dundee OR


Hi Christiane,

The storage of 25,000 gallons of water from a well for fire protection would require a water right. However, if you purchased 25,000 gallons of water from a water provider like a municipality and have it delivered that would not require a new water right. I included the ORS for exempt use of well water of 5,000 gallons a day for single industrial or commercial purposes below. This email should be sufficient documentation for OHA & ODA. If not let me know.

537.545 Exempt uses; map; filing of use; fee; rules. (1) A registration, certificate of registration, application for a permit, permit, certificate of completion or ground water right certificate under ORS 537.505 to 537.795 and 537.992 is not required for the use of ground water for:

- (f) Any single industrial or commercial purpose in an amount not exceeding 5,000 gallons a day; or

Thanks, Joel Plahn
District 22 Watermaster
Cell 503-508-2394



Integrity | Service | Technical Excellence | Teamwork | Forward-Looking

From: Christiane Kraemer <christiane@thegrantcompanyinc.com>
Sent: Thursday, January 22, 2026 1:21 PM
To: PLAHN Joel M * WRD <Joel.M.PLAHN@water.oregon.gov>
Cc: Tiffany Austin <gandtsparkling@gmail.com>; leta@taylorlombardo.com; Kaleb Dark <kaleb@thegrantcompanyinc.com>
Subject: RE: 11050 NE Worden Hill Rd. Dundee OR

You don't often get email from christiane@thegrantcompanyinc.com. [Learn why this is important](#)


Hi Joel,

You and I had a phone conversation regarding this a while back. We are approaching the end of the project and need to get the water approval process moving forward.

OHA needs a document that the property doesn't need water rights. If I remember correctly, you were trying to figure out what to do in a situation like this, where the filling of the tank for the fire fighting needs is really a one-time thing. The floats and controls in the tank won't allow it to drop below the 25,000 gallon level, only opening the fire hydrant will.

Do you know how we can obtain a document that says the property doesn't need water rights?

Christiane Kraemer



GRANT CO.
503.845.6035
503.932.0114

From: PLAHN Joel M * WRD <Joel.M.PLAHN@water.oregon.gov>
Sent: Monday, October 27, 2025 1:55 PM
To: Christiane Kraemer <christiane@thegrantcompanyinc.com>
Cc: Tiffany Austin <gandtsparkling@gmail.com>; leta@taylorlombardo.com; Kaleb Dark <kaleb@thegrantcompanyinc.com>
Subject: RE: 11050 NE Worden Hill Rd. Dundee OR


Hi Christiane,

For the commercial use for the tasting room site ORS 537.545(f) which is copied below. The 46,000 gallons water storage tank for fire protection will need a water right if that water comes from the well. If you buy the water for the fire suppression from a municipality and truck it to the site to fill the tank a water right would not be required. Feel free to give me a call if you have any questions.

537.545 Exempt uses; map; filing of use; fee; rules. (1) A registration, certificate of registration, application for a permit, permit, certificate of completion or ground water right certificate under ORS 537.505 to 537.795 and 537.992 is not required for the use of ground water for:

(f) Any single industrial or commercial purpose in an amount not exceeding 5,000 gallons a day; or

Thanks, Joel Plahn
District 22 Watermaster
Cell 503-508-2394



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From: Christiane Kraemer <christiane@thegrantcompanyinc.com>
Sent: Friday, October 24, 2025 12:42 PM
To: PLAHN Joel M * WRD <Joel.M.PLAHN@water.oregon.gov>
Cc: Tiffany Austin <gandtsparkling@gmail.com>; leta@taylorlombardo.com; Kaleb Dark <kaleb@thegrantcompanyinc.com>
Subject: 11050 NE Worden Hill Rd. Dundee OR

You don't often get email from christiane@thegrantcompanyinc.com. [Learn why this is important](#)


Joel,

I'm the general contactor on a new winery/tasting building at the above address. The owner had a well drilled on the project and we've installed a 46,000 gallon water storage tank on the property. The fire department required the reservoir for fire suppression, with additional storage since the well is not high producing.

I'm helping with the OHA & ODA approval process for the drinking water. Evan Hofeld from OHA says one of the items needed is documentation that the property will not need water rights. The vineyard is not irrigated, and the owner says there are no water rights. Can you tell me how we get this documentation?

Thank you for your help.

Christiane Kraemer



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GENERAL CONTRACTORS
503.845.6035
503.932.0114