DELTA CONSULTING & ENGINEERING



# WATER SYSTEM FEASIBILITY REPORT

# FOR THE

# AMICI CELLARS USE PERMIT MODIFICATION

PROJECT LOCATED AT

3130 OLD LAWLEY TOLL ROAD CALISTOGA, CA 94515

COUNTY: NAPA APN: 017-140-035

SEPTEMBER 15, 2019 REVISION #1: MAY 29, 2020 (REVISIONS HIGHLIGHTED IN GRAY)

PREPARED FOR REVIEW BY:

NAPA COUNTY PLANNING, BUILDING AND ENVIRONMENTAL SERVICES

1195 THIRD STREET NAPA, CA 94558

1104 ADAMS STREET, SUITE 203, ST. HELENA, CALIFORNIA 94574 707-963-8456 tele + www.deltacivil.com DELTA CONSULTING & ENGINEERING OF ST. HELENA

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### **PROJECT INTRODUCTION** I.

Amici Cellars is applying to the County of Napa for a Use Permit Modification to construct an addition to the existing winery production facility and increase wine production, employee count, and visitation. The proposed increase in employment and visitation will cause their existing, non-public well water supply system to be classified as a Transient Non-Community Water System. As part of the use permit modification approval process, this report has been prepared to evaluate the feasibility of the existing well water system to operate as a Transient Non-Community Water System.

Amici Cellars is currently approved for the following uses that contribute to water demand on-site:

- Production Capacity: 20,000 gallons of wine per year
- Employees: one full time •
- Daily Visitors: Average 5 per week with a maximum of 25 per day (per original conditions)
- Private Wine Tasting for Trade: 4 per year with 15 guests per event
- Private Promotional Events: 2 per year with 20 guests per event

Amici Cellars requests to revise wine production, employees, and the marketing plan as follows:

- Production Capacity: 30,000 gallons of wine per year
- Employees: 4 full-time, 4 part-time •
- Daily Visitors: 25 per day equivalent (additional notes provided in application)
- Events: 1 per year with 50 guests per event
- Events: 2 per year with 75 quest per event
- Events: 8 per year with 25 guests per event

To limit the peak demand of the water system, daily visitation and events are not allowed to occur on the same day. All food prepared for the events will be catered and prepared off-site.

Additionally, the existing water system on the winery parcel currently supplies water for a threebedroom residence and irrigation on adjacent parcel APN: 017-140-036.

# II. WATER SYSTEM INFORMATION

Following is an outline and description of the water system:

Water System Name: Amici Cellars Water System

Name of person who prepared the report: Dane Hoime, P.E.

# A. Technical Capacity

AMICI CELLARS

1. System Description

The existing water system source is an existing well located near the eastern property line, approximately 150-feet northeast of the existing winery. Water is currently pumped from the well to existing above ground storage tanks approximately 250-feet southwest of the well. The above ground storage tank system consists of two 10,000-gallon concrete tanks and one 2,500-gallon plastic tank. The two 10,000-gallon concrete tanks store water for both fire

protection and potable use at the winery and the residence on adjacent parcel APN: 017-140-036. The 2,500-gallon above ground plastic tank stores water for irrigation on the adjacent parcel. The pipe network used to convey water from the storage tank area to the winery, fire hydrants, and adjacent parcel have not been mapped at this time. However, this piping system will be demolished, and a new system will be constructed as part of the proposed winery improvements. Additionally, as part of the proposed winery improvements, the fire protection water source will become an existing pond adjacent to the winery. Water rights to use the pond as a fire protection water source are documented per license 10029 with the State of California Division of Water Rights. A copy of the license document is provided in Appendix 4. This will allow for the existing well and water storage tanks to be used solely as potable water supply for the winery and adjacent parcel. The water supply piping and any additional treatment or pumping equipment required as part of the proposed winerv improvements will be determined at the construction document phase. A vicinity map of the project parcel, existing site map showing the water system components, and a proposed site map showing the main water system components relative to the proposed winery improvements are provided in Appendix 1.

# 2. Water Demand

Based on water use estimates from Table 2 in the Water Availability Analysis Report dated May 29, 2020, prepared for this use permit modification application, the projected annual winery water demand is **0.91 acre-feet**, or approximately 296,700-gallons per year. Based on water use guidelines contained in Appendix B of the Napa County Water Availability Analysis document, the annual water demand from the residence on the adjacent parcel is 0.5 acrefeet, or approximately 163,000 gallons. Additionally, the adjacent parcel requires irrigation water for landscaping and a small vineyard. Based on water use guidelines contained in Appendix B of the Napa County Water Availability Analysis document, the annual water demand from the landscaping and vineyards on the adjacent parcel is 0.1 acre-feet per 1,000 square feet and 0.5 acre-feet per acre planted, respectively. A review of aerial imagery dated September 19, 2018, of the adjacent parcel shows approximately 4,000 square feet of landscaping and 7,000 square feet (0.16-acres) of vineyards. This results in an estimated annual water demand of 0.4 acre-feet (approximately 130,300 gallons) for landscaping and 0.08 acre-feet (approximately 26,000 gallons) for the vineyards. In summary, the estimated annual demand on the water system from all sources is **1.89 acre-feet**, or approximately 616,230 gallons. Assuming a maximum allowable pumping time of eight-hours per day from the well, this annual water demand would require a well yield of approximately 3.5-gallons per minute. The well's estimated yield capacity is 6.5-gallons per minute as referenced in Section D below.

The estimated peak daily water demand from the proposed winery marketing plan is **1,395gallons** during harvest and is based on water demand calculations included in Appendix 2. The estimated peak daily water demand from the three-bedroom residence is **450-gallons** which is based on Napa County guidelines for three to five-bedroom residences with conventional leach field systems. The estimated peak daily water demand from landscaping irrigation is **1,252-gallons** and is based on the total annual demand distributed twice per week throughout the year. The estimated peak daily water demand from vineyard irrigation is **1,083gallons** and is based on the total annual demand distributed once per week throughout a sixmonth growing season. This report will conservatively estimate that landscape and vineyard irrigation could occur on the same day. The sum of all the estimated peak daily water demand requirements is **4,180-gallons (peak day)**. Per State Water Board guidelines, the water system maximum daily demand (MDD) is 1.5 times greater than the estimated peak daily demand. Therefore, the MDD is **6,270-gallons**. Also, per State Water Board guidelines, the water system must provide storage capacity equal to or greater than the MDD. The existing water system storage capacity of 22,500-gallons exceeds the MDD.

There are no known plans for expansion within the next ten years that would require additional water from the system.

3. Source Adequacy

The existing well to be used as the main source for the water system has a 55-foot seal, a 5inch casing, and a 12-inch borehole. Below the seal, it has a 5-inch casing with a 9-inch borehole. This well has been maintained and is currently utilized as the water source for the existing winery and adjacent parcel. The well was completed in July 2018, under permit E18-00421. A copy of the Well Completion Report is provided in Appendix 3. It should be noted that this well was drilled and constructed to meet the standards of a public water system. Prior to construction of the 2018 well, water was provided by a well in a similar location. This pre-2018 well did not have adequate seal depth to be an approved public water system source. The pre-2018 well was demolished under permit E18-00420. A copy of the Well Destruction permit is also provided in Appendix 3.

4. Water Supply Capacity

The water supply is adequate to support the proposed winery improvements and adjacent parcel APN: 017-140-035. According to the completion log of the 2018 well, the estimated well yield is 6.5 gallons per minute. According to the completion log of the pre-2018 well, the estimated well yield was seven gallons per minute. The completion logs for each well are provided in Appendix 3. Based on the existing maximum water storage capacity of 22,500 gallons, the system can supply approximately 15-gallons per minute for 24-hours. This exceeds the minimum three gallons per minute for at least 24-hours for each service connection required of the system per the rules of the water system technical, managerial, and financial capacity worksheet provided by Napa County Environmental Services. This report assumes there are two service connections (Winery, Adjacent Parcel) requiring a minimum total of six gallons per minute.

5. Water Quality Characterization

At the time of this report, water quality testing of water from the well has not been conducted or is unavailable. Water quality testing will be conducted prior to initial submittal of building permit documentation to Napa County for the proposed winery and water system improvements.

6. Consolidation Evaluation

The winery parcel is in the unincorporated zone of Napa County. It is approximately two miles outside of the City of Calistoga boundary line. The City of Calistoga does not provide municipal water to this area. There may be additional small public water systems at existing nearby wineries, but due to water rights complications and the steep hillside terrain of this area, consolidation with one of these existing water systems is not feasible.

# B. Managerial Capacity

1. Water System Management

Winery ownership oversees winery operations and shall also have over-sight of the water system. The winery personnel, as designated by the owner, will manage daily aspects of the winery water system and a contracted maintenance provider will continue to service the well



and water system equipment as needed.

2. Water Rights

The water system shall record an Agreement for Grant of Easement and Water Rights to provide water to the adjacent parcel APN: 017-140-036.

# C. Financial Capacity

Operation of the existing water system is currently funded by revenue from the existing winery. Revenue from the existing winery has adequately supported the existing water system since its construction in 2000. Due to minimal expected changes in the water system infrastructure and an anticipated increase in revenue from the expanded marketing plan, the winery's ability to support operations of the water system is considered financially feasible.

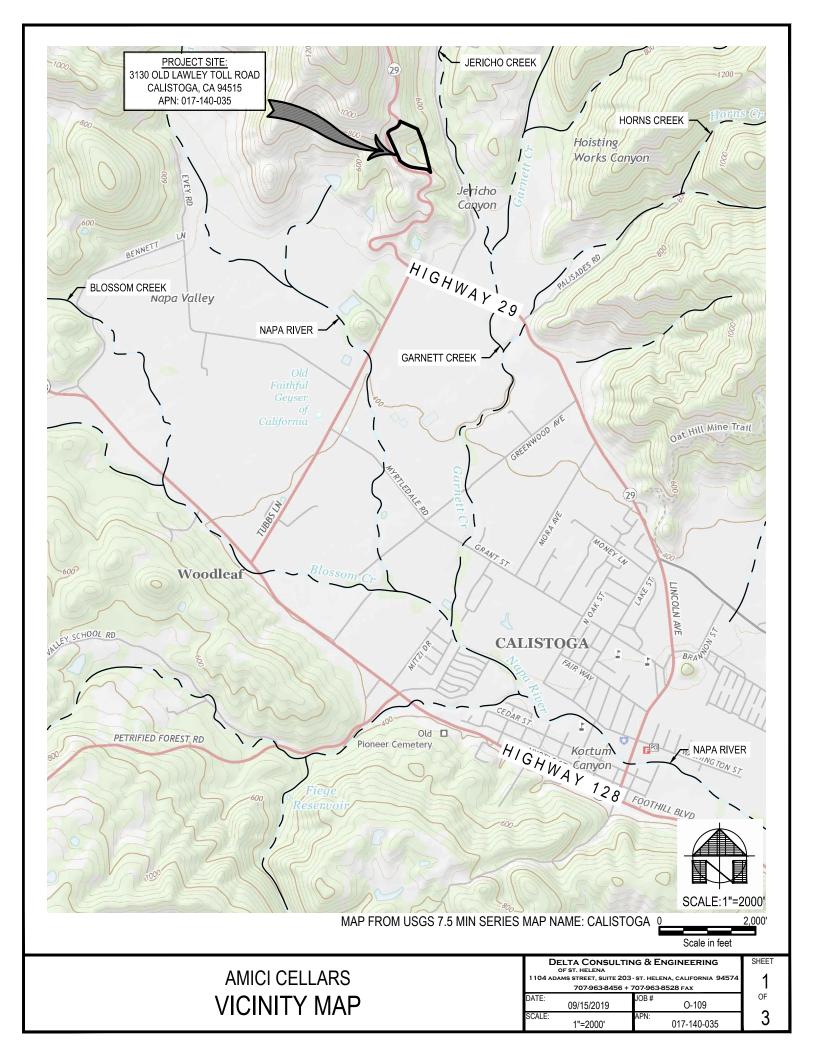


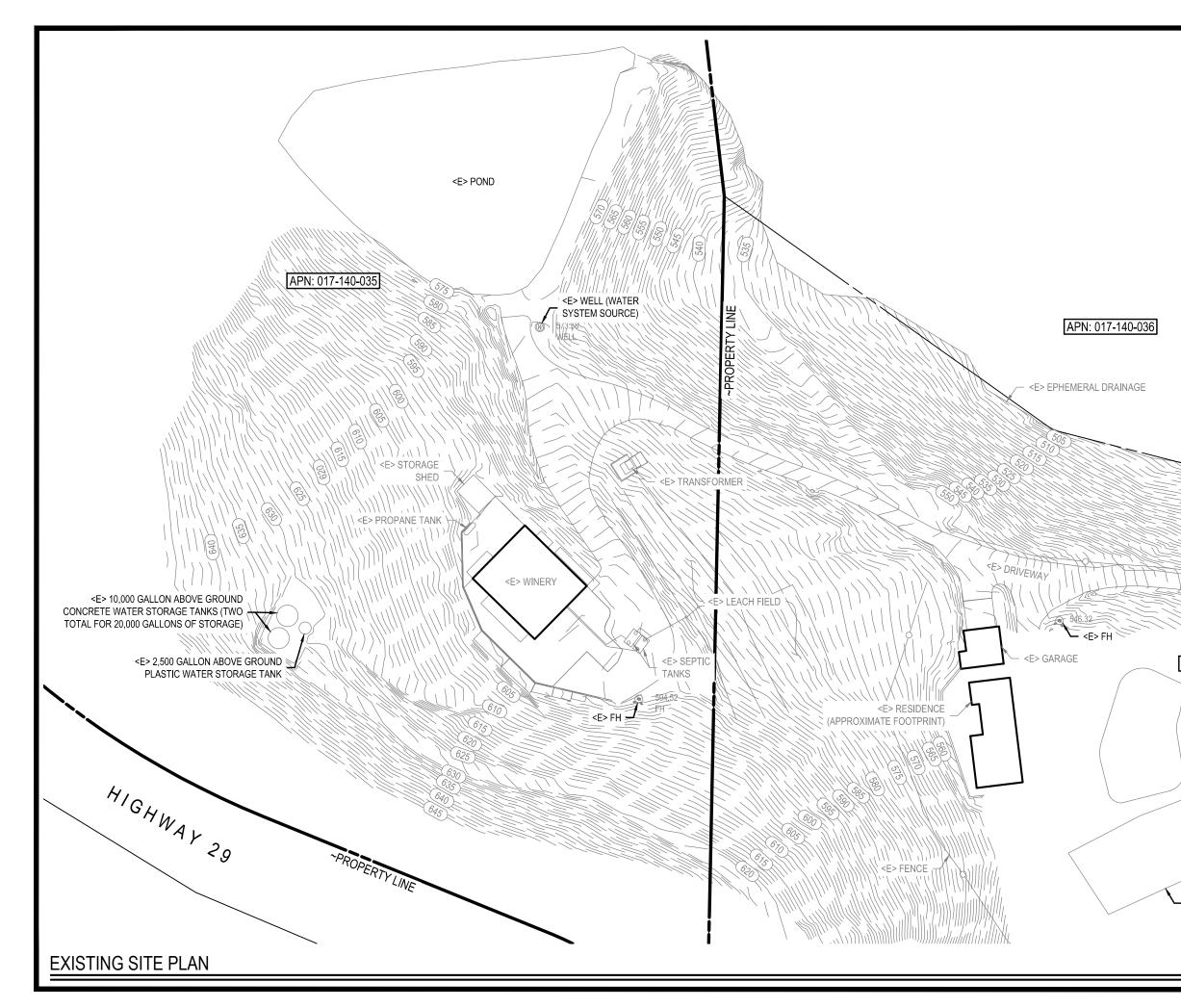
# III. APPENDIX

- 1. Vicinity Map, Existing Site Map, Proposed Site Map
- 2. Winery Water Demand Calculations
- 3. Water Source Adequacy: 2018 Well Permit, Pre-2018 Well Destruction Permit
- 4. Water Rights to Existing Pond



APPENDIX 1 VICINITY MAP, EXISTING SITE MAP, PROPOSED SITE MAP







WATER SYSTEM NOTES: THIS MAP HAS BEEN PREPARED TO SHOW THE MAIN WATER SYSTEM SOURCE, STORAGE, AND USER INFRASTRUCTURE. THE EXISTING WELL AND WATER STORAGE TANKS ON THE WINERY PARCEL APN: 017-140-035 PROVIDE BOTH FIRE PROTECTION AND POTABLE WATER FOR THE WINERY AND THE RESIDENCE, INCLUDING IRRIGATION, ON ADJACENT PARCEL APN: 017-140-037. THE EXISTING WATER SUPPLY PIPE NETWORK HAS NOT BEEN MAPPED. IT WILL BE DEMOLISHED AND A NEW PIPE NETWORK WILL BE CONSTRUCTED AS PART OF CONSTRUCTION FOR THE IMPROVEMENTS PROPOSED AS PART OF THIS USE PERMIT MODIFICATION APPLICATION. SEE SHEET 3, PROPOSED SITE PLAN, FOR MORE INFORMATION REGARDING THE PROPOSED WINERY MPROVEMENTS.



~<E> LAWN · (APPROXIMATE 4,000 SF) (0.09 ACRES)

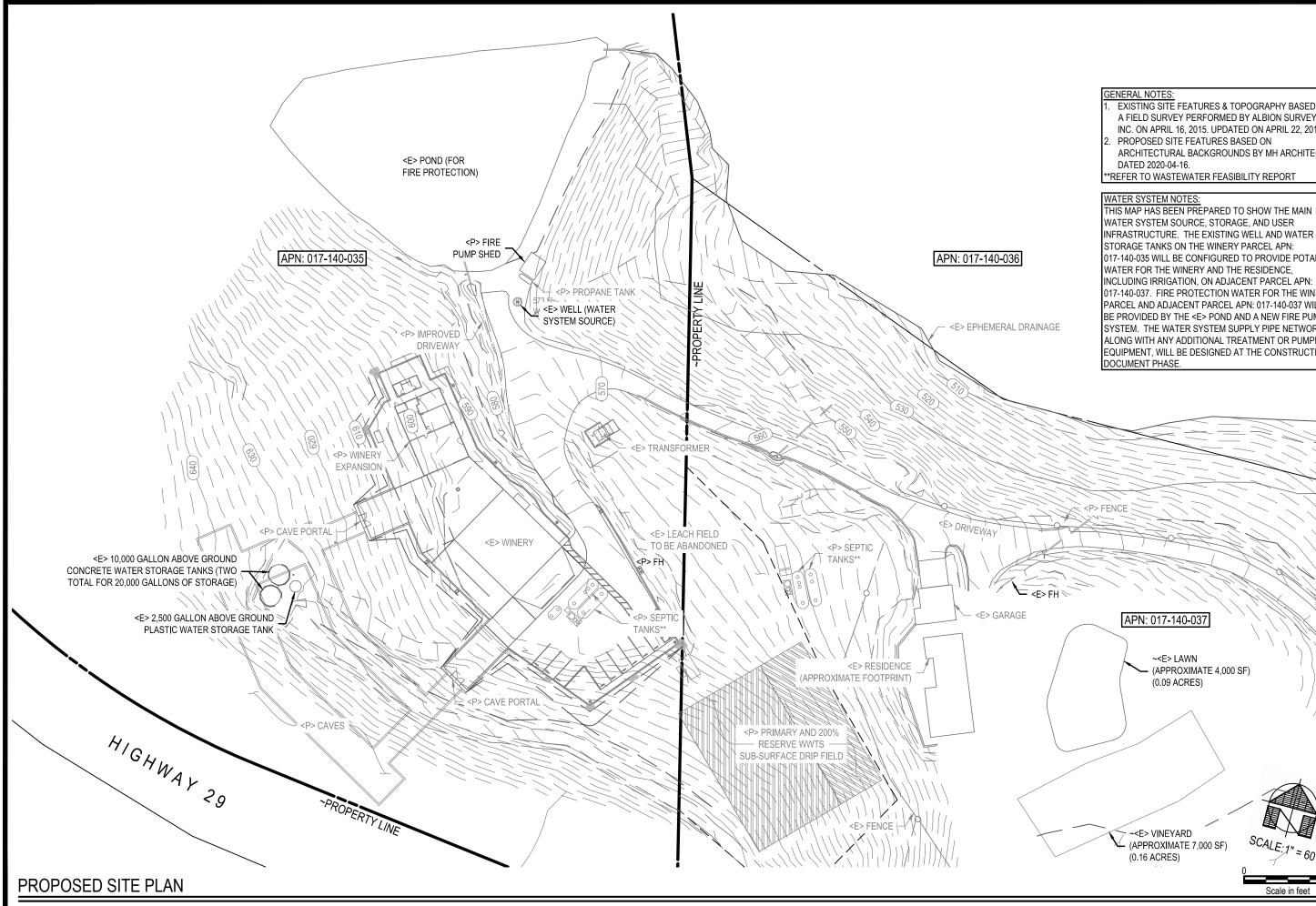
~<E> VINEYARD (APPROXIMATE 7,000 SF) (0.16 ACRES)



55

SCALE:1" = 60'

Scale in feet



- EXISTING SITE FEATURES & TOPOGRAPHY BASED ON A FIELD SURVEY PERFORMED BY ALBION SURVEYS, INC. ON APRIL 16, 2015. UPDATED ON APRIL 22, 2019
- ARCHITECTURAL BACKGROUNDS BY MH ARCHITECTS
- \*\*REFER TO WASTEWATER FEASIBILITY REPORT

WATER SYSTEM SOURCE, STORAGE, AND USER INFRASTRUCTURE. THE EXISTING WELL AND WATER STORAGE TANKS ON THE WINERY PARCEL APN: 017-140-035 WILL BE CONFIGURED TO PROVIDE POTABLE WATER FOR THE WINERY AND THE RESIDENCE, INCLUDING IRRIGATION, ON ADJACENT PARCEL APN: 017-140-037. FIRE PROTECTION WATER FOR THE WINERY PARCEL AND ADJACENT PARCEL APN: 017-140-037 WILL BE PROVIDED BY THE <E> POND AND A NEW FIRE PUMP SYSTEM. THE WATER SYSTEM SUPPLY PIPE NETWORK, ALONG WITH ANY ADDITIONAL TREATMENT OR PUMPING EQUIPMENT, WILL BE DESIGNED AT THE CONSTRUCTION



SCALE:1" = 60'

Scale in feet





APPENDIX 2 WINERY WATER DEMAND CALCULATIONS DELTA CONSULTING & ENGINEERING

Process Wastewa	ter						
TICESS WASLEWA	101		Product	tion Input Type:	Gallons		
				duction (WP) =	30,000	gallons/year	
				····· ( )	30,000	gallons (2.4 gal	llons/case)
						2.4 gallons/case	<u> </u>
t Period: Estimated	Peak Pro	cess Flov					
	-	D:		of Crush Days=	45		
	E ation at a d			rvest Period)* =	1,000		
				Harvest period= gement Method	45,000	galions	
arvest (Remainder o					prind)		
Estimated Gallons of					/	wine produced	
			aste Generated			gallons/year	
			ss Watse Gener			MG/year	
			of Year Outside			days	
s Waste Production			ocess Daily (nor	1-crusn) Flows=	750	gpa	
s waste Production	Summary	/	Cruch	Period Flows=	45.000	Collenaturar	
				Harvest Flows=	45,000 195,000	Gallons/year Gallons/year	
			Total Estimate		240,000	Gallons per y	/ear
Annual Basis	s. Combined		Average Dail		658		
ess Flow Design for	,		Therage Ban	<i>y</i> = 11 = 10 = 10		994	
ess riow Design 101	Feak FIO	VV	-	-		Average	
				Estimated	Monthly PW	Daily PW	
		Month	Day/mo	% of PW	Flow (gallons)	Flow	Month
	-	Jan Feb	31 28	<u>6%</u> 9%	14,400 21,600	465	Jan Feb
	-	Mar	28	<u> </u>	12.000	387	Mar
	-	Apr	30	6%	14,400	480	Apr
	_	May	31	7%	16,800	542	May
	-	Jun	30	6%	14,400	480	Jun
	-	Jul Aug	31 31	<u>6%</u> 12%	14,400 28,800	465 929	Jul
	-	Sep	30	12 %	36,000	1,200	Sep
	-	Oct	31	15%	36,000	1,161	Oct
	_	Nov	30	7%	16,800	560	Nov
		Dec	31	6%	14,400	465	Dec
			Summary:	100%		gallons/year	
			Peak Averag	e Daily Flow: Peak Month:	1,200	gpa	
				Feak Wonth.	Sep		
stic Wastewater							
stic Wastewater						Daily	
stic Wastewater			Waste Flow	,		Daily Flow	Annual
stic Wastewater	Value	Unit		days/wee	k week/yr		Annual Flow (gpy)
	Value	Unit	Waste Flow (gpp) <sup>1</sup>		k week/yr	Flow	
Use	Value 4	Unit			k week/yr	Flow	Flow (gpy)
Use Employees	4 4		(gpp) <sup>1</sup> 15 15	days/wee		Flow (gpd) 60	Flow (gpy)
Use Employees Full-Time	4		(gpp) <sup>1</sup> 15 15 3	6 3 7	50 50 52	Flow (gpd) 60 60 75	Flow (gpy)
Use Employees Full-Time Part-Time	4 4	ppd ppd	(gpp) <sup>1</sup> 15 15 3 1	days/wee 6 3 7 Total Estimat	50 50 52 ted DW Flows	Flow (gpd) 60 60 75 5 = 19	Flow (gpy) 18,000 9,000 27,300 5 54,300
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Use Employees Full-Time Part-Time Tasting Visitors Events events up to events up to	4 4 25 Value 75 50	ppd ppd ppd Unit ppe ppe ppe Abl	(gpp) <sup>1</sup> 15 3 7 4 Waste Flow (gpp) 3 3 3 3	days/wee 6 3 7 Total Estimat Annual Avera 7 Est.Flow (gpe) 225 150 75 <sup>2</sup> Even	50 50 52 ted DW Flows age Daily Flo event/yea 2 1 8	Flow (gpd) 60 66 75 75 9 = 19 w: 14	Flow (gpy) 5 27,300 5 54,300 9 Event Flow (gpy) 450 150 600
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Use Employees Full-Time Part-Time Tasting Visitors Events events up to events up to	4 4 25 Value 75 50	ppd           ppd           ppd           ppd           unit           ppe	(gpp) <sup>1</sup> 15 15 3 Waste Flow (gpp) 3 3 3 3 breviations days per weel events per yea persons per da	days/wee 6 3 7 Total Estimar Annual Avera 7 Est.Flow (gpe) 225 150 75 <sup>2</sup> Even	50 50 52 ted DW Flows age Daily Flo event/yea 2 1 8	Flow (gpd) 60 66 75 75 9 = 19 w: 14	Flow (gpy) 5 27,300 5 54,300 9 Event Flow (gpy) 450 150 600
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Use Employees Full-Time Part-Time Tasting Visitors Events events up to events up to	4 4 25 Value 75 50 25	ppd           ppd           ppd           unit           ppe           ppe           ppe           ppg           Abi	(gpp) <sup>1</sup> 15 15 3 Waste Flow (gpp) 3 3 3 days per weel events per yea days per weel events per yea persons per da ersons per da	days/wee 6 3 7 Total Estimar Annual Avera (gpe) 225 150 75 <sup>2</sup> Even	50 50 52 ted DW Flows age Daily Flo event/yea 2 1 8	Flow (gpd) 60 60 75 75 75 75 75 75 75 75 75 75 9 19 w: 14	Flow (gpy) 18,000 9,000 5 27,300 5 54,300 9  Event Flow (gpy) 450 150 6000 = 1,200

1104 Adams Street, Suite 203 St. Helena, California 94574 707-963-8456 + fax 963-8528



# APPENDIX 3 WATER SOURCE ADEQUACY: 2018 WELL PERMIT, PRE-2018 WELL DESTRUCTION PERMIT

017-140-0	035
E18-00421	Planning, Bui
<b>OFFICE SET</b>	

/ WELL nning, Building & Environmental Services

1195 Third Street, 2nd Floor Napa CA 94559 www.countyofnapa.org Main: (707) 253-4417

> David Morrison Director

A Tradition of Staveardship A Commitment to Service

~ ~

# WELL PERMIT

Planning, Building & Environmental Services - Environmental Health Division

Record Number:	E18-00421			Subn	nittal Date: 5/22/2	2018
Parcel Number:	017-140-035-000			8	sued Date: 5/24/2	2018
				Expira	ation Date: 5/23/2	2020
Application Type:	Environmental / Onlir	ne / Water Wells / Cl	ass I			
Site Address:	3130 State Highway	29, Calistoga				
Contact:	Don Huckfeldt	(	Owner:	PALISADES	WINE COMPAN	YLLC
		WELL CONS	TRUCTIO			
Proposed use:		Private				
To serve this parce	el only?	Yes	lf No, list	other APN(s):		
Is this a replaceme	ent well?	Yes	Replacen	nent reason:	Casing damaged	/well corroded
Additional Comme	nts:					
Setbacks						
Setbacks Met?	Yes					
Sewer Line:	100.00 ft	Septic Tank:	100.00 ft		Disposal Field:	100.00 ft
Additional Comme	nts:					
Well Specification	<b>NS</b>					
Casing Diameter:		Boring Diameter:				3.50 in
Sealing Method:	Tremie Pipe/Pump	Min. Seal Depth:	50 ft or fir	rst impervious	layer, whichever i	is greater
Sealing Materiai:	Concrete	Other Material:				
Additional Comme	ints:					

### TO PERMITEE:

By executing this application, the applicant agrees to comply with all conditions, inspections and comments of the issued permit and all federal, state and county code requirements applicable to this permit.

Issued By:

Staff Signature:

Date: 05/24/2018

2

# CONDITIONS/INSPECTIONS/COMMENTS

Record Number: E18-00	421
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Parcel Number: 017-140-035-000

### Conditions:

Code	Condition
STRM-02	The owner shall comply with the Napa Countywide Stormwater Pollution Prevention Program, "Erosion and Sediment Control Measures for Construction Projects". Failure to comply with best management practices for erosion and sediment control will result in issuance of a stop-work order.
WELL-01	A copy of the State of California Well Completion Report must be submitted within 60 days of well completion.
WELL-02	This permit covers the well construction only. A separate building permit must be obtained for the Installation/construction of any pump, electrical, plumbing and/or mechanical features. Failure to obtain a building permit for that work is cause for enforcement action. Questions related to building permit requirements should be directed to the building division.

### inspections:

**Inspection** Type

Inspected By:

Construction Inspection

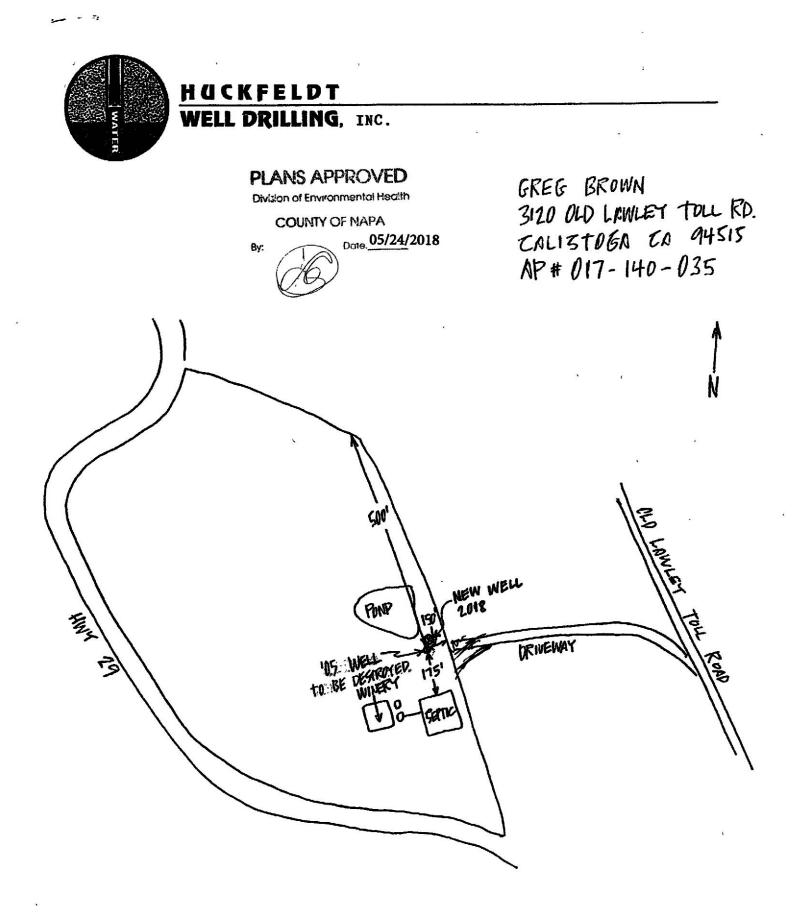
MSB 55' Seal 7-5-18

Date:

## Comments:

Date	Comment
	Call 253-4135 at least 24 hours in advance during normal business hours to schedule inspection requests. Inspections are taken on a first-come-first-served basis so if you need a specific date and time be sure to call well in advance
	Well permits are issued only to licensed well drillers. A copy of the well driller's license (C-57) must be on file with DEM.
	If a claim is to be submitted for a refund, per County Code, a 25% processing fee will be retained. Such claims must be made within one year of the date on the receipt.
	If this well will at any point serve a public water system, the siting, construction, capacity testing and additional requirements must comply with Title 22 California Code of Regulations (CCR), Chapter 16, California Waterworks Standards. This office may deny an application for a water supply permit if the well does not meet the above noted requirements.

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2110 PENNY LANE . NAPA, CALIFORNIA 94559 . 707-255-7923 . FAX 252-4651

	-	*
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NS A COUNT	DATE: 5/12/18 Planning, Building & Environmental Services
	1195 Third Street, Suite 210 Napa, CA 94559 www.countyofnapa.org
WELL CO	NSTRUCTION APPLICATION
A Tradition of Stewardship A Commitment to Service	David Morrison Director WELL PERMIT #: E18-0042
PROPERTY OWNER INFORMATIC	N: WELL DRILLER INFORMATION:
Name: Amici Cellars	Company Name: Huckfeldt Well Dnilling
Mailing Address: 3429 Old Lawley Toll Road	Well Driller's License Number: 439-746
Calistoga, CA 94515	Contact Person: Don Huckfeldt
Site Address: same	Address: 2110 Penny Lane
	Napa, CA 94559
APN: 017-140-035	E-Mail: don@huckfeldtwelldrilling com
Phone #: 510-390-0740	Phone #: 707-255-7923
TYPE OF PERMIT (circle one):	Class 1A Class 1B Class II Deepening
I	Reconstruction Other:
Applying for Electrical, Mechanical If yes, Building Permit Number:	& Plumbing with this permit? Yes No (Circle One)
PROPOSED USE (circle one):	rivate Public
To Serve This Parcel Only:	(es) No If no, list other APN(s):
Describe access to the proposed w	ell site_good
	n Flood Zone: Yes No HazMat within 1500 feet: Yes No ber Flood Plain or Flood Way (Circle One)
Sewer Line: feet 5	eptic Tank: feet Disposal Field: 175 feet
WELL SPECIFICATIONS:	
Casing Diameter: <u>5</u> inches	oring Diameter: <u>12</u> inches Annular Seal: <u>3</u> inches
Minimum Seal Depth: 50 feet S	ealing Material: concrete Sealing Method: pump
THIS APPLICATION. THE THE WELL TO PROPER STRUCTURES, ETC. AND	WELL LOCATION SHALL BE ATTACHED TO MAP SHALL INCLUDE THE DISTANCE FROM TY LINES, SEWAGE DISPOSAL SYSTEMS, SHALL INCLUDE ALL OTHER PERTINENT
<b>INFORMATION SPECIFIC</b>	FO THIS WELL.

.

ORIGINAL STATE OF CALIFOR	DRNIA DWR USE ONLY DO NOT FILL IN						
age 1 of 1 Refer to Instruction Pamphlet STATE WELL NO./ STATION NO.							
Owner's Well No.         1-2018         No.         e0367360         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII							
Date Work Began <u>6/29/2018</u> , Ended 7/6/2018							
Local Permit Agency Napa County Environmental Momt							
Permit No. E18-00421 Permit Date 5/24/2018							
GEOLOGIC LOG	WELL OWNER						
ORIENTATION () VERTICAL - HORIZONTAL ANGLE (SPECIFY)	Name Palisades Wine Company, LLC						
ORIENTATION (Z) - VERTICAL - HORIZONTAL ANGLE (SPECIFY) DRILLING ROTARY FLUID AIR	Mailing Address 3120 Old Toll Road						
DEPTH FROM SURFACE DESCRIPTION	Calistoga CA 94515						
Ft. to Ft. Describe material, grain, size, color, etc.	CITY STATE ZIP						
0 10 REDDISH BROWN SANDY CLAY	Address 3130 State Highway 29						
10 25 TAN VOLCANIC ASH	City Calistoga CA						
25 40 TAN SANDY ASH	County Napa						
40 50 TAN VOLCANIC ASH	APN Book 017 Page 140 Parcel 035						
50 60 VOLCANIC ROCK	Township Range Section						
60 70 DARK GRAY VOLCANIC ROCK	Latitude DEG. MIN. SEC DEG. MIN. SEC.						
70 80 HARD FRACTURED GRAY VOLCANICS	DEG. MIN. SEC. DEG. MIN. SEC.						
80 85 DARK GRAY VOLCANICS							
85 90 GRAY VOLCANIC ASH	MODIFICATION/REPAIR						
90 100 GRAY VOLCANIC ROCK	— Deepen						
100 105 LIGHT GRAY SANDY ASH	- Other (Specify)						
105 120 HARD FRACTURED GRAY VOLCANICS							
120 155 SOFT WHITE VOLCANIC ROCK	- DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG"						
155 190 SOFT GRAY VOLCANIC ROCK	PLANNED USES ( $\angle$ )						
190 220 HARD FRACTURED GRAY VOLCANICS	WATER SUPPLY						
220 375 SOFT LIGHT GRAY VOLCANICS							
375 395 DARK GRAY VOLCANICS							
395 410 HARD FRACTURED GRAY VOLCANICS	WELL 150 MONITORING						
410 440 SOFT LIGHT GRAY VOLCANICS	CATHODIC PROTECTION_						
	HEAT EXCHANGE						
CONTINUED CASING LAYOUT	DIRECT PUSH						
250 330 BLANK PVC 5"	INJECTION						
330 370 SCREEN PVC 5" .032 SLOT	SPARGING						
370 390 BLANK PVC 5"	SOUTH REMEDIATION REMEDIATION						
390 410 SCREEN PVC 5" .032 SLOT	Fences, Rivers, etc. and attach a map. Use additional paper if OTHER (SPECII						
410 430 BLANK PVC 5"	necessary. PLEASE BE ACCURATE & COMPLETE.						
	WATER LEVEL & YIELD OF COMPLETED WELL						
	DEPTH TO FIRST WATER 75 (Ft.) BELOW SURFACE 1						
	DEPTH OF STATIC WATER LEVEL 63 (Ft.) & DATE MEASURED 7/6/2018						
	estimated yield + 6.5 (GPM) & test type AIR LIFT						
TOTAL DEPTH OF BORING 440 (Feet)	TEST LENGTH 2 (Hrs.) TOTAL DRAWDOWN N/A (Ft.)						
TOTAL DEPTH OF COMPLETED WELL 430 (Feet)	May not be representative of a well's long-term yield.						
	May not be representative of a wears tong-term yield.						
DEPTH BORE CASING (S)	DEPTH ANNULAR MATERIAL						
FROM SURFACE BORE- HOLE TYPE ( <u>·</u> )	FROM SURFACE TYPE						
Internal     Internal     Gauge       Ft.     to     Ft.     <	LL IF ANY MENT TONITE FILL FILTER PACK						
Ft. to Ft. A B 방양 23 글 (Inches) THICKN	ESS (inches) Ft. to Ft. $(\checkmark)$ $(\checkmark)$ $(\checkmark)$ ( $\checkmark$ ) ( $\checkmark$ ) (TYPE/SIZE)						
0 60 12	0 4 V CONCRETE						
60 440 9	4 55 🗸 GROUT						
0 70 🗸 PVC F480 5 SDR	-21 55 430 🗸 PEA GRAVEL						
70 130 ✓ PVC F480 5 SDR							
130 170 ✓ PVC F480 5 SDR							
170 250 V PVC F480 5 SDR							
ATTACHMENTS ( $\checkmark$ )	CERTIFICATION STATEMENT						
Geologic Log     I, the undersigned, certify that this report     Well Construction Diagram     NAME HUCKFELDT WELL	rt is complete and accurate to the best of my knowledge and belief. DRILLING, INC.						
Geophysical Log(s) (PERSON, FIRM, OR CORPO	RATION) (TYPED OR PRINTED)						
Soil/Water Chemical Analysis     ADDRESS	CITY STATE ZIP						
Other Signed Signed	07/16/18 439-746						
DWR 188 REV. 11-97 IF ADDITIONAL SPACE IS NEEDED, USE NEX							



at to 1

# E18-00420 Planning, Building & Environmental Services DFFICE SET Napa CA 94559 WWW.countyofnapa.org Main: (707) 253-4417

well pm

**David Morrison** Director

# **Well Permit**

			1. I.
pplication Type:	Environmental / EM Permits / Water Wells / Well Destruction	Applied Date:	5/22/2018
ermit Number:	E18-00420	issued Date:	5/24/2018
arcel Number:	017-140-035-000	Expiration Date:	5/23/2020
ite Address:	3130 State Highway 29, Calistoga		
wner:	PALISADES WINE COMPANY LLC	Phone:	(000) 000-0000
ddress:	3130 OLD LAWLEY TOLL RD		
pplicant:	Don Huckfeldt	Phone:	(000) 000-0000
Business Name:	HUCKFELDT WELL DRILLING INC	License	#: 439746
Project Type:	Environmental / EM Permits / Water Wells / Well Destruction		
Proposed Use:			
lleer	Name of F	Public Water System	
Use:	Name of F	Public Water System:	
	Name of F	Public Water System:	
		Public Water System:	×
Well To Service 1	This Parcel Only?:	Public Water System:	
Well To Service 1 Water Supply:	This Parcel Only?: Met?: Weil L Haymai		×
Well To Service 1 Water Supply: Septic Setbacks I Actual Approved	This Parcel Only?: Met?: Well L Setback: Hazmat	ocated in Flood Zone?:	
Well To Service 1 Water Supply: Septic Setbacks	This Parcel Only?: Met?: Well L Setback: Hazmat	ocated in Flood Zone?: t Site Within 1500 feet?:	•
Well To Service 7 Water Supply: Septic Setbacks I Actual Approved Emergency Exer	This Parcel Only?: Met?: Well L Setback: Hazmat	ocated in Flood Zone?: t Site Within 1500 feet?:	
Well To Service 7 Water Supply: Septic Setbacks I Actual Approved Emergency Exer	This Parcel Only?: Met?: Well L Setback: Hazmat nption Granted?: Hazmat :	ocated in Flood Zone?: t Site Within 1500 feet?:	
Well To Service 1 Water Supply: Septic Setbacks I Actual Approved Emergency Exer Reason For Emer Specifications:	This Parcel Only?: Met?: Well L Setback: Hazmat nption Granted?: Hazmat : rgency Exemption:	ocated in Flood Zone?: Site Within 1500 feet?: Site Number and Name:	
Well To Service 1 Water Supply: Septic Setbacks I Actual Approved Emergency Exem Reason For Emer	This Parcel Only?: Met?: Well L Setback: Hazmat nption Granted?: Hazmat : rgency Exemption:	ocated in Flood Zone?: t Site Within 1500 feet?:	•
Well To Service 1 Water Supply: Septic Setbacks I Actual Approved Emergency Exer Reason For Emer Specifications:	This Parcel Only?: Met?: Well L Setback: Hazmat nption Granted?: Hazmat : rgency Exemption: : In. Meth	ocated In Flood Zone?: I Site Within 1500 feet?: Site Number and Name:	Ft.

### TO PERMITEE:

Any work performed or operations conducted under the auspices of this permit constitutes acceptance of all conditions, inspections and comments contained in the this permit, and the incorporation of all requirements as set forth in the permit application.

Staff Signature:

Date: 05/24/2018

# CONDITIONS/INSPECTIONS/COMMENTS

Application Type:	Environmental / EM Permits / Water Wells / Well Destruction	Applied Date:	5/22/2018
Permit Number:	E18-00420	Issued Date:	5/24/2018
Parcel Number:	017-140-035-000	Expiration Date:	5/23/2020
Owner:	PALISADES WINE COMPANY LLC	Phone:	(000) 000-0000
Applicant:	Don Huckfeldt	Phone:	(000) 000-0000

### Conditions:

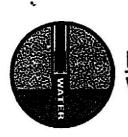
T

Code	Condition
STRM-02	The owner shall comply with the Napa Countywide Stormwater Pollution Prevention Program, "Erosion and Sediment Control Measures for Construction Projects". Failure to comply with best management practices for erosion and sediment control will result in issuance of a stop-work order.
WELL-01	A copy of the State of California Well Completion Report must be submitted within 60 days of well completion

inspections:	Inspected By:	Date:
Inspection Type		
Destruction Inspection 304		

### Comments:

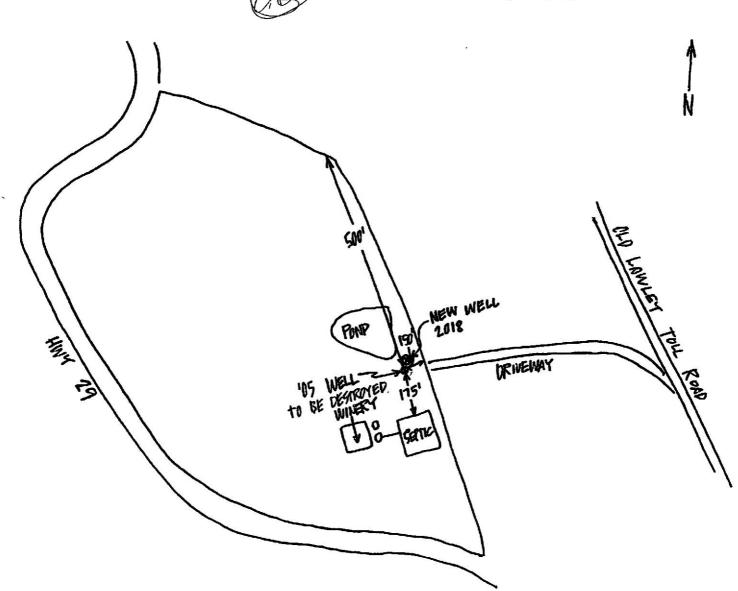
Date	Comment
	Cali 253-4135 at least 24 hours in advance during normal business hours to schedule inspection requests. Inspections are taken on a first-come-first-served basis so if you need a specific date and time be sure to call well in advance
	Well permits are issued only to licensed well drillers. A copy of the well driller's license (C-57) must be on file with DEM.
	If a claim is to be submitted for a refund, per County Code, a 25% processing fee will be retained Such claims must be made within one year of the date on the receipt.



HUCKFELDT Well Drilling, INC.

PLANS APPROVED

COUNTY OF NAPA By: Dote 05/24/2018 GREG BROWN 3120 OLD LAWLEY TOLL RD. CALISTOGA CA 94515 AP # 017-140-035



**Environmental Management** 

E18-0042

1195 Third St , Suite 101 Napa, CA 94559 www.co napa ca us

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Steven Lederer Director

# WELL DESTRUCTION EVALUATION REPORT FORM

PROPERTY OWNER IN	FORMA	TION	WELL DRILLER INFORMATION	
Name: <u>Amici Cellars</u>			_Company Name: Huckfeldt Well Drilling	
9(20			Contact person: Don	
APN: 017-140-035			Address: <u>2110 Penny Lane Napa</u>	
Phone #: <u>510-390-0740</u>			Phone #: 255-7923	
TYPE OF WELL TO B	E DESTR	ROYED:		
CASED WELL	HAND I	DUG WELL	OTHER:	
FOR CASED WELLS:				
Casing material: Total depth of well: Well Screen interval(s):	460	PVC feet	other:	
Sealed Depth: Casing Diameter:	5	feet. (For no seal – wri inches.	ite "none", if you don't know, write in "unknown") , write "none". If you don't know, write "unknown")	)
Static water level:		feet.		
FOR HAND DUG WEL	LS:			

# **DESTRUCTION PROCEDURES:**

Describe method to be used to perforate the casing. None - existing 45' sanitary seal in place.\_\_\_\_

 Type of filling material to be placed into the well:
 pea gravel

 Fill material to be place to
 30

 feet below ground surface.

 Sealing Material:
 Concrete

 Bentonite Grout (high solids)
 Other:

Driller's Comments: \_Remove top 3' of casing. Backfill with pea gravel from 460' to 30'. Install Bentonite chips from 30' to 4', install concrete cap, backfill to grade with natural material.\_\_\_

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ORIGINAL File with DWR								OF CALIFO				DWR US			00	NOT FILL IN			
Page 1 of 1	WELL	COMP Refer to In		N REPOR	Ľ	. <b>τ</b>  ∟∟													
Owner's Well N	ia. WD						-		67353				1		1				
Date Work Began	Ended 5/25/2	018	07000			LATITUDE			- 10										
Local Permit	al Mgmt			- 1		1.1	11	1											
Permit No	E18-0042	0				Permit	Date _ 5/2	2/2018					A	PN/TRS/	OTHER				
		GE	01	LOG	IC							WELL O	WNE	R —	-				
ORIENTATION (		ERTIC	AL		- H	ORIZONTAL	ANGLE	(SPECIFY)	Mailing Addume 2420 Character and Character										
DEPTH FROM	METHO					FI	LUID			1	2420-01				h	04545			
SURFACE Ft. to Ft.	-	Dese	rib	e m	ate	DESCRIPTION erial, grain, siz	e, color, et	c.	CITY						ST	ATE ZIP			
						OF 5" PVC C			Address 3120	0	d Lawley	VELLLO TOILRO		10N					
					-	H PEA GRAV			City Calistoga	C	CA								
					-	ALLED BENTO			County Napa										
	-					O 4'. CAPPE		4	APN Book 017 Page 140 Parcel 035										
<u> </u>	3' TO 0		-		<u></u>	URAL MATER		M	Township Range Section										
	1								Latitude	м	I AIN SEC			-	DEG	MIN SEC.			
									LO	X	NORTH				A	CTIVITY (2) —			
									•							NEW WELL FICATION/REPAIR			
						<del></del>				-	-					Deepen			
<b>├</b> ── <b>├</b> ──						1990	2									— Other (Specify)			
			-									$\mathbf{V}$			<u> </u>	DESTROY (Describe Procedures and Materials			
<u> </u>									1			chi l			્ય	Under "GEOLOGIC LOG"			
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									WEST			Je com	3	EAST	[	Domestic Public			
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					3						. W	m	(14 )			TEST WELL			
												Ye	ι .			DIC PROTECTION			
	-											MIMON	-		. '	DIRECT PUSH			
										-	<b>````</b>								
	1														VAP	OR EXTRACTION			
							2				SOUTH -			0		SPARGING			
						104-02			Illustrate or Describe Distance of Well from Roads, Buildings, Fances, Rivers, etc. and attach a map Use additional paper if necessary. PLASE BE ACCURATE & COMPLETE.							OTHER (SPECIFY)			
		and the									-								
		<u>.</u>	2				-				R LEVEL &					WELL			
			-		6				DEPTH TO FIRST DEPTH OF STATIC		WATER	— (Ft ) 8E	LOW S	URFAC					
									WATER LEVEL			FL) & DATE	MEAS	JRED					
TOTAL DEPTH O	E BOBDIC				<i>(</i> <b>r</b>				ESTIMATED YIELD			80 - O		146					
TOTAL DEPTH O					•				TEST LENGTH (Hrs) TOTAL DRAWDOWN (Ft)										
		1				(100)			May not be rep	nre 1	esentative of	a well's l	ong-te	rm yiel	d				
DEPTH	BORE -				- 1	c	ASING (S)				DEPT	гн		ANNU	JLAR	MATERIAL			
FROM SURFACE	HOLE DIA.		(PE	ि ल		MATERIAL /	INTERNAL	GAUGE	SLOT SIZE	l	FROM SU	RFACE			TY	PE			
FL to FL	(inches)	BLANK	SCREEN	DUCTOR-	Ē	GRADE	DIAMETER	OR WALL	IF ANY	l	Ft to	Ft	CE- MENT	BEN- TONITI	FILL	FILTER PACK			
		×	8		Ē		(inches)	THICKNES	S (Inches)	I			(∡)	$(\mathcal{D})$	$(\mathbf{v})$	(TYPE/SIZE)			
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		H		$\vdash$	┥					ł	3	<u>4</u> 30		~		CONCRETE			
										11	30	450			~	PEA GRAVEL			
							1												
ATTAC	CHMENTS ic Log	(⊻)				I, the undersi	gned, certify #	at this moon	CERTIFIC is complete and accurate is complete and accurate					bellaf.					
Weil C	Construction D	iagra	m			NAME_H	UCKFELD	T WELL D	RILLING, INC.										
10	ysical Log(s) ster Chemical	Ana	lysus	5		2110 Per			ORATION) (TYPER OR PRINTED)										
Other				-	~	ADDRESS	676	Wh X	Wah Ath -			CITY 0	5/29/1	8	STATE	ZIP 439-746			
ATTACH ADDITIONAL DWR 188 REV. 11-97	, INFORMATIC	лч, li			_	WE		UTHORIZED	REPRESENTATIVE CONSECUTIVELY			DA	TE SIG			C-57 LICENSE NUMBER			



APPENDIX 4 WATER RIGHTS TO EXISTING POND



### STATE OF CALIFORNIA THE RESOURCES AGENCY STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER RIGHTS

# License for Diversion and Use of Water

APPLICATION 23458

16097 PERMIT

LICENSE 10029

THIS IS TO CERTIFY, That

TERENCE H. GOWEN AND AUDREY E. GOWEN 3120 OLD LAWLEY TOLL ROAD, CALISTOGA, CALIFORNIA 94515

HAVE made proof as of JULY 5, 1972 (the date of inspection) to the satisfaction of the State Water Resources Control Board of a right to the use of the water of AN UNNAMED STREAM IN NAPA COUNTY

tributary to JERICHO CANYON THENCE GARNETT CREEK THENCE NAPA RIVER

for the purpose of RECREATIONAL AND FIRE PROTECTION USES of the Board and that the right to the use of this water has been perfected under Permit 16097 in accordance with the laws of California, the Regulations of the Board and the permit terms; that the priority of this right dates from MARCH 10, 1970 and that the amount of water to which this right is entitled and hereby confirmed is limited to the amount actually beneficially used for the stated purposes and shall not exceed THREE (3) ACRE-FEET PER ANNUM, TO BE COLLECTED FROM NOVEMBER 1 OF EACH YEAR TO MAY 1 OF THE SUCCEEDING YEAR.

THE POINT OF DIVERSION OF SUCH WATER IS LOCATED:

LAKE WOODHILL - SOUTH 3,340 FEET AND WEST 120 FEET FROM NE CORNER OF PROJECTED SECTION 23, T9N, RTW, MDB&M, BEING WITHIN NE1/4 OF SE1/4 OF SAID SECTION 23.

A DESCRIPTION OF LANDS OR THE PLACE WHERE SUCH WATER IS PUT TO BENEFICIAL USE IS AS FOLLOWS:

RECREATIONAL USES AT LAKE WOODHILL AND FIRE PROTECTION WITHIN NE1/4 OF SE1/4 OF SECTION 23, T9N, R7W, MDB&M.

THIS LICENSE DOES NOT AUTHORIZE COLLECTION OF WATER TO STORAGE OUTSIDE OF THE SPECIFIED SEASON TO OFFSET EVAPORATION AND SEEPAGE LOSSES OR FOR ANY OTHER PURPOSE .

THE QUANTITY OF WATER DIVERTED UNDER THIS LICENSE IS SUBJECT TO MODIFICATION BY THE STATE WATER RESOURCES CONTROL BOARD, IF, AFTER NOTICE TO THE LICENSEE AND AN OPPORTUNITY FOR HEARING, THE BOARD FINDS THAT SUCH MODIFICATION IS NECESSARY TO MEET WATER QUALITY OBJECTIVES IN WATER QUALITY CONTROL PLANS WHICH HAVE BEEN OR HEREAFTER MAY BE ESTABLISHED OR MODIFIED PURSUANT TO DIVISION 7 OF THE WATER CODE. NO ACTION WILL BE TAKEN PURSUANT TO THIS PARAGRAPH UNLESS THE BOARD FINDS THAT (1) ADEQUATE WASTE DISCHARGE REQUIREMENTS HAVE BEEN PRESCRIBED AND ARE IN EFFECT WITH RESPECT TO ALL WASTE DISCHARGES WHICH HAVE ANY SUBSTANTIAL EFFECT UPON WATER QUALITY IN THE AREA INVOLVED, AND (2) THE WATER QUALITY OBJECTIVES CANNOT BE ACHIEVED SOLELY THROUGH THE CONTROL OF WASTE DISCHARGES.

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Licensee shall allow representatives of the Board and other parties, as may be authorized from time to time by the Board, reasonable access to project works to determine compliance with the terms of this license.

All rights and privileges under this license including method of diversion, method of use and quantity of water diverted are subject to the continuing authority of the Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion of said water.

Reports shall be filed promptly by licensee on appropriate forms which will be provided for the purpose from time to time by the Board.

BOUBLY NEEDE TTEL AN ROUCHT BUYLAD CHOID BU

The right hereby confirmed to the diversion and use of water is restricted to the point or points of diversion herein specified and to the lands or place of use herein described. COLEATIC:

This license is granted and licensee accepts all rights herein confirmed subject to the following provisions of the Water Code:

Section 1625. Each license shall be in such form and contain such terms as may be prescribed by the Board.

Section 1626; All licenses shall be under the terms and conditions of this division (of the Water Code).

Section 1627. A license shall be effective for such time as the water actually appropriated under it is used for a useful and beneficial purpose in conformity with this division (of the Water Code) but no longer.

Section 1628. Every license shall include the enumeration of conditions therein which in substance shall include all of the provisions of this article and the statement that any appropriator of water to whom a license is issued takes the license subject to the conditions therein expressed.

To the conditions therein expressed. Section 1629. Every licensee, if he accepts a license does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any license; granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any licensee or by the holder of any rights granted or acquired under the provisions of division (of the Water Code), or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any licensee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

Section 1630. At any time after the expiration of twenty years after the granting of a license, the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State or any city, city right to purchase the works and property occupied and used under the license and the works built or constructed for the enjoyment of the rights granted under the license. ITOCLICE CALLETTA TO CALL CALLETTA COULD STATE

Section 1631. In the event that the State, or any city, city and county, municipal water district, irrigation district, lighting district, or political subdivision of the State so desiring to purchase and the owner of the works and property cannot agree upon the purchase price, the price shall be determined in such manner as is now or may hereafter be provided by law for determining the value of property taken in eminent domain proceedings.

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4-17-00 asgd. to Greg Brown + Yvonne Brown