



# San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

JUL 19 2010

Mathew Towers  
O'Neill Beverages Co., LLC  
8418 S. Lac Jac Avenue  
Parlier, CA 93654

**Re: Notice of Preliminary Decision - Authority to Construct**  
**Project Number: C-1101398**

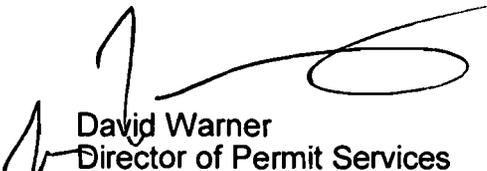
Dear Mr. Towers:

Enclosed for your review and comment is the District's analysis of O'Neill Beverages Co., LLC's application for an Authority to Construct for the modification to 50 existing wine storage tanks and the installation of 49 new wine fermentation and storage tanks, at 8418 S. Lac Jac Avenue in Parlier, CA.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day public comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Derek Fukuda of Permit Services at (559) 230-5917.

Sincerely,



David Warner  
Director of Permit Services

DW:df

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061  
[www.valleyair.org](http://www.valleyair.org)

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: (661) 392-5500 FAX: (661) 392-5585



**San Joaquin Valley**  
**AIR POLLUTION CONTROL DISTRICT**

JUL 19 2010

Mike Tollstrup, Chief  
Project Assessment Branch  
Stationary Source Division  
California Air Resources Board  
PO Box 2815  
Sacramento, CA 95812-2815

**Re: Notice of Preliminary Decision - Authority to Construct**  
**Project Number: C-1101398**

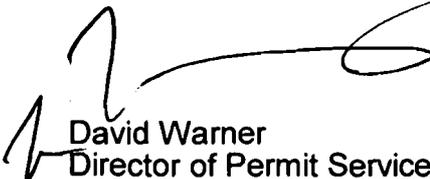
Dear Mr. Tollstrup:

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# San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

JUL 19 2010

Gerardo C. Rios (AIR 3)  
Chief, Permits Office  
Air Division  
U.S. E.P.A. - Region IX  
75 Hawthorne Street  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision - Authority to Construct**  
**Project Number: C-1101398**

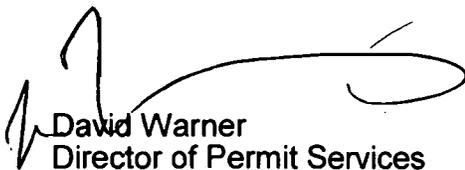
Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of O'Neill Beverages Co., LLC's application for an Authority to Construct for the modification to 50 existing wine storage tanks and the installation of 49 new wine fermentation and storage tanks, at 8418 S. Lac Jac Avenue in Parlier, CA.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day public comment period which begins on the date of publication of the public notice.

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David Warner  
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Enclosure

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Fresno Bee

**NOTICE OF PRELIMINARY DECISION  
FOR THE PROPOSED ISSUANCE OF  
AN AUTHORITY TO CONSTRUCT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Authority to Construct to O'Neill Beverages Co., LLC for the modification to 50 existing wine storage tanks and the installation of 49 new wine fermentation and storage tanks, at 8418 S. Lac Jac Avenue in Parlier, CA.

The analysis of the regulatory basis for this proposed action, Project #C-1101398, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. Written comments on this project must be submitted within 30 days of the publication date of this notice to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.**



this case, the ATC's are considered their temporary permits and will be used as the base permits for this project and the proposed changes will be treated as modifications to the existing equipment. The following condition will be included on each of these new ATC's for units C-629-333 through -382 to ensure continued compliance:

- This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-333-1.<sup>(1)</sup> [District Rule 2201]

## II. APPLICABLE RULES

District Rule 2201 New and Modified Stationary Source Review Rule (9/21/06)  
District Rule 2520 Federally Mandated Operating Permits (6/21/01)  
District Rule 4001 New Source Performance Standards (4/14/99)  
District Rule 4002 National Emissions Standards for Hazardous Air Pollutants (5/20/04)  
District Rule 4101 Visible Emissions (2/17/05)  
District Rule 4102 Nuisance (12/17/92)  
District Rule 4694 Wine Fermentation and Storage Tanks (12/15/05)  
California Health and Safety Code Section 41700 (Health Risk Assessment)  
California Health & Safety Code Section 42301.6 (School Notice)  
Public Resources Code 21000-21177 California Environmental Quality Act (CEQA)  
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA Guidelines

## III. PROJECT LOCATION

This facility is located at 8418 S. Lac Jac Road in Parlier, CA.

The District has verified that the equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public noticing requirement of California Health and Safety Code 42301.6 does not apply.

## IV. PROCESS DESCRIPTION

O'Neill Beverages Co. produces both red and white table wines, as well as other specialty wine products, from the fermentation of grapes. During the "crush season", typically from late August to late November, both red and white grapes are received by truck and delivered to a crusher-stemmer which serves to crush the grapes and remove the stems. In the case of red wines, the resultant juice (termed "must" and containing the grape skins, pulp and seeds) is pumped to red wine fermentation tanks for fermentation, a batch process. The red wine fermentation tanks are specifically designed to ferment the must in contact with the skins and to allow the separation of the skins and seeds from the wine after fermentation. In the case of white wines, the must is first sent to screens and presses for separation of grape skins and seeds prior to fermentation. After separation of the skins and seeds, the white must is transferred to a

<sup>(1)</sup> Specific condition included on each ATC will include the ATC number for that particular unit (e.g. C-629-333-1).

fermentation tank. White wine fermentation can be carried out in a tank without design provisions for solids separation since the skins and seeds have already been separated.

After transfer of the must (red or white) to the fermentation tank, the must is inoculated with yeast which initiates the fermentation reactions. During fermentation, the yeast metabolizes the sugar in the grape juice, converting it to ethanol and carbon dioxide and releasing heat. Although fermentation temperatures vary widely depending upon the specific quality and style of the wine, temperature is typically controlled to maintain a temperature of 45-70° F for white wine fermentation and 70-85° F for red wine fermentation. The sugar content of the fermentation mass is measured in °Brix (weight %) and is typically 22-26° for unfermented grape juice, dropping to 4° or less for the end of fermentation. Finished ethanol concentration is approximately 10 to 14 percent by volume. Batch fermentation requires 3-5 days per batch for red wine and 1-2 weeks per batch for white wine. VOC's are emitted during the fermentation process along with the CO<sub>2</sub>. The VOC's consist primarily of ethanol along with minor fermentation byproducts.

Following the completion of fermentation, white wine is transferred directly to storage tanks. Red wine is first directed to the presses for separation of solids and then routed to the storage tanks. All tanks in the winery typically operate as two separate emissions units; 1) a fermentation operation during which the tank is vented directly to the atmosphere to release the evolved CO<sub>2</sub> byproduct from the fermentation reaction; and 2) a storage operation where the tank is closed to minimize contact with air and the contents is often refrigerated. Post-fermentation operations are conducted in the tanks including cold stabilization, racking, filtration, etc which result in a number of inter-tank transfers of the wine during this period leading up to the bottling or bulk shipment of the finished product. Storage operations are conducted year-round. VOC emissions occur primarily as a result of the inter-tank wine transfers which occur during the post fermentation operations.

## **V. EQUIPMENT LISTING**

### **Pre-Project Equipment Descriptions:**

Units C-629-333-1 through -382-1

The pre-project equipment descriptions for the winery tanks associated with this project can be found in Appendix B.

### **Proposed Modifications:**

Units C-629-333-2 through -382-2

- Add wine fermentation as an operation that can take place in the tanks.

Post Project Equipment Descriptions:

Units C-629-333-2 through -382-2 and C-629--383-0 through -431-0

The post project equipment descriptions for the winery tanks associated with this project can be found in Appendix C.

**VI. EMISSION CONTROL TECHNOLOGY EVALUATION**

VOC's (ethanol) are emitted from wine storage tanks as a result of both working losses (which occur when the liquid level in the tank changes) and breathing losses (expansion and contraction effects due to temperature variations). The proposed pressure/vacuum valve limits these emissions by requiring the maximum amount of variation in tank pressure before allowing the tank to vent to the atmosphere or allowing air admission to the tank. When wine storage tanks are insulated or located in a climate controlled building, breathing losses are considered to be negligible.

**VII. GENERAL CALCULATIONS**

**A. Assumptions**

- The only pollutant emitted by the units in this project are VOC emissions.
- The maximum operating schedule for this facility is 24 hours/day and 365 days/year.
- Winery tanks generally consist of two emissions units; 1) a fermentation tank emissions unit and 2) a wine storage tank emissions unit.

Units C-629-333-2 through -382-2:

- Facility Wide VOC emission limit for fermentation emissions is 410,502 lb-VOC/year. (current permits)
- Breathing losses from the storage tanks will be negligible since they are insulated tanks and equipped with PV valves.

Units C-629-383-0 through -431-0:

- Maximum ethanol volume stored is 23.9%. (per applicant)
- Facility Wide VOC emission limit for fermentation emissions is 410,502 lb-VOC/year. (current permits)
- Combined annual VOC emissions from wine storage from these units will be limited to 5,000 lb-VOC/year. (per applicant)
- Breathing losses from the storage tanks will be negligible since they are insulated tanks or located inside of temperature controlled buildings. (per applicant)
- Daily Storage Throughput (per applicant)
  - 350,000 gallon tanks: 392,000 gallons
  - 87,000 gallon tanks: 261,000 gallons
  - 13,300 gallon tanks: 66,500 gallons

## **B. Emission Factors**

The required emission factors for fermentation and storage operations are taken from District FYI-114, *Estimating VOC Emissions from Winery Tanks*, with storage tank emission factors interpolated from Table 1. FYI 114 is attached as Appendix F.

### **Pre-Project Emission Factors:**

#### Units C-629-333-1 through -382-1:

These tanks are new emissions units for the wine fermentation operations, therefore there is no pre project emission factor.

#### Units C-629-383-0 through -431-0:

These tanks are new emissions units, therefore there is not pre project emission factor.

### **Post Project Emission Factors:**

#### Units C-629-333-2 through -382-2:

The facility has indicated that they will be fermenting both red and white wines in these tanks. Since the red wine emission factor is higher, it will be used for all emission calculations.

Daily Fermentation EF = 3.46 lb-VOC/1,000 gallon tank capacity per day

The facility is proposing to include the emissions from these tanks in the current facility wide wine fermentation emission limit; therefore annual emissions from the wine fermentation will not be calculated.

#### Units C-629-383-0 through -431-0:

#### Wine Storage Working Losses @ 23.9% Ethanol:

Daily EF: 0.490 lb-VOC/1000 gallons daily throughput

The facility is proposing to limit the annual combined VOC emissions from wine storage from these tanks to 5,000 lb-VOC/year; therefore annual emissions from the wine fermentation will not be calculated.

However, the facility will need to calculate the VOC emissions from their operation to demonstrate compliance with the combined annual VOC emission limit. Therefore, the annual VOC emissions from the wine storage operations in these tanks will be determined using the emission factors listed in FYI 114 and generating a curvefit equation from the known values. The curvefit equation generated from the known

values in FYI 114 was determined to be as follows (see additional information in Appendix D):

$$\text{VOC Emission (lb-VOC/1000 gallons throughput)} = 1.705259 \times [(\% \text{ ethanol content of wine stored})^{1.090407}]$$

Wine Fermentation:

The facility has indicated that they will be fermenting both red and white wines in these tanks. Since the red wine emission factor is higher, it will be used for all emission calculations.

$$\text{Daily Fermentation EF} = 3.46 \text{ lb-VOC/1,000 gallon tank capacity per day}$$

The facility is proposing to include the emissions from these tanks in the current facility wide wine fermentation emission limit; therefore annual emissions from the wine fermentation will not be calculated.

**D. Calculations**

**1. Pre-Project Potential to Emit (PE1)**

Since these are new emissions units, PE1 = 0 for all criteria pollutants.

**2. Post-Project Potential to Emit (PE2)**

Units C-629-333-2 through -382-2:

**Daily PE:**

The daily VOC emissions from the fermentation of wine in each of these tanks can be determined using the emission factor listed above and the capacity of the tank.

$$\text{Daily Fermentation VOC PE} = \text{EF (lb-VOC/1,000 gallons tank capacity per day)} \times \text{Tank Capacity (gallons)}$$

Permit	Tank Capacity (gallons)	Emission Factor (lb-VOC/gallons tank capacity per day)	VOC PE (lb/day)
C-629-333-2 through -338-2	6,500	3.46	22.5
C-629-339-2 through -342-2	196,000	3.46	678.2
C-629-343-2 through -348-2	86,780	3.46	300.3
C-629-349-2 through -358-2	13,300	3.46	46.0
C-629-359-2 through 364-2	45,226	3.46	156.5
C-629-365-2 and -366-2	120,000	3.46	415.2
C-629-367-2 through 382-2	87,000	3.46	301.0

**Annual PE:**

The facility has proposed to include the annual emissions from these units in the facility wide fermentation emission limit.

**Annual VOC PE = 410,502 lb-VOC/year**

Units C-629-383-0 through -431-0:

**Daily PE:**

The daily VOC emissions from the storage of wine in each of these tanks can be determined using the emission factor listed above (specific based on the maximum ethanol content of the wine being stored) and the daily wine storage throughput limits proposed by the applicant as a part of this project:

Daily VOC PE = EF (lb-VOC/1,000 lb gallons) x Throughput (gallons/day)

Permit	Maximum Ethanol Content (%)	Emission Factor (lb-VOC/1,000 gallons)	Throughput (gallons/day)	VOC PE (lb/day)
C-629-383-0 through -387-0	23.9	0.490	392,000	192.1
C-629-388-0 through -401-0	23.9	0.490	261,000	127.9
C-629-402-0 through -431-0	23.9	0.490	66,500	32.6

The daily VOC emissions from the fermentation of wine in each of these tanks can be determined using the emission factor listed above and the capacity of the tank.

$$\text{Daily Fermentation VOC PE} = \text{EF (lb-VOC/1,000 gallons tank capacity per day)} \times \text{Tank Capacity (gallons)}$$

Permit	Tank Capacity (gallons)	Emission Factor (lb-VOC/gallons tank capacity per day)	VOC PE (lb/day)
C-629-383-0 through -387-0	350,000	3.46	1,211.0
C-629-388-0 through -401-0	87,000	3.46	301.0
C-629-402-0 through -431-0	13,300	3.46	46.0

**Annual PE:**

The facility has proposed to limit the wine storage annual emissions from these units to 5,000 lb-VOC/year.

$$\text{Annual VOC PE} = 5,000 \text{ lb-VOC/year}$$

The facility has proposed to include the annual emissions from these units in the facility wide fermentation emission limit.

$$\text{Annual VOC PE} = 410,502 \text{ lb-VOC/year}$$

**3. Pre-Project Stationary Source Potential to Emit (SSPE1)**

Pursuant to Section 4.9 of District Rule 2201, the Pre-Project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

SSPE1 calculations are necessary to aid the following determinations:

- If the facility is becoming a new Major Source,
- An offset threshold will be surpassed, or
- A Stationary Source Increase in Permitted Emissions (SSIPE) public notice is triggered

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions. Additionally, since the only annual emissions change resulting from this project are the annual emissions increase associated with the 49 new storage tanks and this facility has not banked any emissions, an SSIPE determination can be made without calculating the SSPE1; therefore, SSPE1 calculations are not necessary.

#### **4. Post-Project Stationary Source Potential to Emit (SSPE2)**

Pursuant to Section 4.10 of District Rule 2201, the Post Project Stationary Source Potential to Emit (SSPE2) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

SSPE2 calculations are necessary to aid the following determinations:

- If the facility is becoming a new Major Source,
- An offset threshold will be surpassed, or
- A Stationary Source Increase in Permitted Emissions (SSIPE) public notice is triggered

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions. Additionally, since the only annual emissions change resulting from this project are the annual emissions increase associated with the 49 new storage tanks and this facility has not banked any emissions, an SSIPE determination can be made without calculating the SSPE2; therefore, SSPE2 calculations are not necessary.

#### **5. Major Source Determination**

This source is an existing Major Source for VOC emissions and will remain a Major Source for VOC. No change in other pollutants are proposed or expected as a result of this project.

#### **6. Baseline Emissions (BE)**

The BE calculation (in lbs/year) is performed pollutant-by-pollutant for each unit within the project, to calculate the QNEC and if applicable, to determine the amount of offsets required.

Pursuant to Section 3.7 of District Rule 2201, BE = Pre-project Potential to Emit for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to Section 3.22 of District Rule 2201.

The permit units in this project only emit VOC and therefore the BE determination is only required for this pollutant:

**a. BE VOC**

Units Located at a Non-Major Source

As shown in Section VII.C.5 above, the facility is a major source for VOC emissions.

Highly-Utilized Emissions Units, located at a Major Source

Due to the nature of winery operations, excess tank capacity is installed at wineries such that the actual usage is usually significantly less than the potential operation. Therefore, the tanks in this project are assumed to not be Highly-Utilized Emissions Units.

Fully Offset Emissions Units, located at a Major Source

The unit in this project are not all Fully Offset Emissions Units.

Clean Emissions Unit, Located at a Major Source

Pursuant to Rule 2201, Section 3.12, a Clean Emissions Unit is defined as an emissions unit that is "equipped with an emissions control technology with a minimum control efficiency of at least 95% or is equipped with emission control technology that meets the requirements for achieved-in-practice BACT as accepted by the APCO during the five years immediately prior to the submission of the complete application.

All fermentation tanks in this project and included in the SLC, meet the District's current achieved-in-practice BACT (see Appendix E) for fermentation tanks. Therefore all fermentation tank emissions units are *Clean Emissions Units* pursuant to District Rule 2201 and, for the combined fermentation emissions of all tanks in this project. Since the fermentation tanks in this project will be added into the facility wide emission limit for fermentation tanks, all fermentation tanks included in the facility wide limit will be used to determine the baseline emissions.

$$\Sigma BE_{\text{fermentation}} = \Sigma PE_{\text{fermentation}} = 410,502 \text{ lb-VOC/year}$$

The baseline emissions for the storage tanks will be 0 lb/year since the storage units are new emissions units.

## 7. Major Modification

Major Modification is defined in 40 CFR Part 51.165 (as in effect on December 19, 2002) as "any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the Act." Per §51.165(a)(1)(vi)(A)

The *net emissions increase* is calculated as the increase in actual emissions resulting from the project. The calculated net emissions increase is significant if it exceeds the values in the following table:

Significance Threshold (lb/year)	
Pollutant	Threshold (lb/year)
VOC	50,000
NO <sub>x</sub>	50,000
PM <sub>10</sub>	30,000
SO <sub>x</sub>	80,000

For purposes of the Major Modification determination, the post project actual emissions are conservatively assumed to be equal to the Post Project Potential to Emit. The Baseline Actual Emissions (BAE) for the units in this project is equal to 0 since they are all new emissions units. The *net emissions increase* (NEI) for the project (for purposes of determination of a Major Modification) is thus:

$$NEI = PE2 - BAE = (410,502 + 5,000) - 0 = 415,502 \text{ lb-VOC/year} > 50,000 \text{ lb-VOC/year}$$

Therefore, this project is a Major Modification.

## 8. Federal Major Modification

District Rule 2201, Section 3.17 states that major modifications are also federal major modifications unless they qualify for a "Less-Than-Significant Emissions Increase" exclusion.

A Less-Than-Significant Emissions Increase exclusion is for an emissions increase for the project, or a Net Emissions Increase for the project (as defined in 40 CFR 51.165 (a)(2)(ii)(B) through (D), and (F)), that is not significant for a given regulated NSR pollutant, and therefore is not a federal major modification for that pollutant.

- To determine the post-project projected actual emissions from existing units, the provisions of 40 CFR 51.165 (a)(1)(xxviii) shall be used.
- To determine the pre-project baseline actual emissions, the provisions of 40 CFR 51.165 (a)(1)(xxxv)(A) through (D) shall be used.

- If the project is determined not to be a federal major modification pursuant to the provisions of 40 CFR 51.165 (a)(2)(ii)(B), but there is a reasonable possibility that the project may result in a significant emissions increase, the owner or operator shall comply with all of the provisions of 40 CFR 51.165 (a)(6) and (a)(7).
- Emissions increases calculated pursuant to this section are significant if they exceed the significance thresholds specified in the table below.

<b>Significant Threshold (lb/year)</b>	
<b>Pollutant</b>	<b>Threshold (lb/year)</b>
VOC	50,000
NO <sub>x</sub>	50,000
PM <sub>10</sub>	30,000
SO <sub>x</sub>	80,000

The Net Emissions Increases (NEI) for purposes of determination of a "Less-Than-Significant Emissions Increase" exclusion will be calculated below to determine if this project qualifies for such an exclusion.

Since this project consists of both existing and new emissions units, the "hybrid test" specified in 40 CFR(a)(2)(ii)(F) is applicable and requires that the NEI determination be based on the sum of the individual NEI determinations for existing emissions units (NEI<sub>E</sub>) and new emissions units (NEI<sub>N</sub>) pursuant to 40 CFR(a)(2)(ii)(C) and (D) respectively. In addition, pursuant to 40 CFR (a)(1)(vi)(A)(2), creditable contemporaneous emissions increases (NEI<sub>C</sub>) must also be included in the determination of the NEI. Therefore,

$$NEI = NEI_E + NEI_N + NEI_C$$

**Net Emission Increase for New Units (NEI<sub>N</sub>)**

Per 40 CFR 51.165 (a)(2)(ii)(D) for new emissions units in this project,

$$NEI_N = PE2_N - BAE$$

Since these are new units, BAE for these units is zero and,

$$NEI_N = PE2_N$$

where PE2<sub>N</sub> is the Post Project Potential to Emit for the new emissions units.

This project includes both new fermentation tank emissions units and new storage tank emissions units. Therefore,

$$PE2_N = PE2_{N(\text{fermentation})} + PE2_{N(\text{storage})}$$

As discussed in Appendix F, fermentation tanks operating in a winery are not truly independent emissions units with the result that the theoretical "stand-alone" annual potential to emit for individual fermentation tanks cannot be defined (their theoretical

annual fermentation capacity, and thus their potential annual emissions, must be established with consideration of all the other associated tanks in the facility). In order to determine the  $PE_{2N(\text{fermentation})}$ , a post-project determination of the fermentation emission potential ( $PE_2^*$ ) of all tanks at the facility (new and existing) must be made which ignores the proposed Specific Limiting Condition which will be placed on the permits. Then the Pre-Project Potential to Emit of the existing fermentation operation ( $PE_{\text{fermentation}}$  as determined in Section VII.C) is subtracted from  $PE_2^*$  to arrive at  $PE_{2N(\text{fermentation})}$ .  $PE_2^*$  is determined in Appendix G to be 536,235 lb-VOC/year.

$PE_{2N(\text{fermentation})}$  is thus calculated as follows:

$$PE_{2N(\text{fermentation})} = PE_2^* - PE_{\text{fermentation}} = 536,235 - 410,502 = 125,733 \text{ lb-VOC/year}$$

The  $PE_{2N(\text{fermentation})}$  exceeds the significance threshold by itself, therefore this project is a Federal Major Modification.

## VIII. COMPLIANCE

### District Rule 2201 New and Modified Stationary Source Review Rule

#### A. Best Available Control Technology (BACT)

##### 1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis for the following\*:

- a. Any new emissions unit with a potential to emit exceeding two pounds per day,
- b. The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
- c. Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
- d. Any new or modified emissions unit, in a stationary source project, which results in a Major Modification.

\*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

##### a. New emissions units – $PE > 2 \text{ lb/day}$

As seen in Section VII.C.2 of this evaluation, the applicant is proposing to add fermentation operations to 50 existing tanks and install 49 new wine fermentation and storage tanks with a PE greater than 2 lb/day for VOC. Thus BACT is triggered for VOC for these emissions units.

**b. Relocation of emissions units – PE > 2 lb/day**

As discussed in Section I above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

**c. Modification of emissions units – AIPE > 2 lb/day**

Since the modification to the existing wine tanks to add a fermentation operation is considered an installation of a new emissions unit, there are no modified emissions units associated with this project; therefore BACT is not triggered.

**d. Major Modification**

As discussed in Section VII.C.7 above, this project does constitute a Major Modification for VOC emissions; therefore BACT is triggered for VOC for all emissions units affected by this stationary source project.

**2. BACT Guideline**

BACT Guideline 5.4.13, applies to the wine storage tanks. [Wine Storage Tanks] (See Appendix E)

BACT Guideline 5.4.14, applies to the wine fermentation tanks. [Wine Fermentation Tank] (See Appendix E)

**3. Top-Down BACT Analysis**

Per Permit Services Policies and Procedures for BACT, a Top-Down BACT analysis shall be performed as a part of the application review for each application subject to the BACT requirements pursuant to the District's NSR Rule.

Fermentation Tanks

Pursuant to the attached Top-Down BACT Analysis (see Appendix E), BACT has been satisfied with the following:

VOC: Open tank vented to the atmosphere with the average fermentation temperature not exceeding 95 °F.

The following conditions will be placed on the ATC's of all fermentation tank emissions units affected by this project to ensure compliance with the requirements of BACT for wine fermentation tanks:

- The average fermentation temperature of each batch of must fermented in this tank shall not exceed 95 °F, calculated as the average of all temperature measurements for the batch taken at least every 12 hours over the course of the fermentation. [District Rule 2201]

- For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and any fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694]

### Wine Storage Tanks

Pursuant to the attached Top-Down BACT Analysis (see Appendix E), BACT has been satisfied with the following:

VOC: Insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and achieve and maintain a continuous storage temperature not exceeding 75 °F within 60 days of completion of fermentation.

The DEL for wine storage tanks will be stated in the equipment description as an "insulated" tank and by placing the following conditions on the ATC:

- When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
- When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21 [District Rules 2201 and 4694]
- The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]

**B. Offsets**

**1. Offset Applicability**

Pursuant to Section 4.5.3, offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the Post Project Stationary Source Potential to Emit (SSPE2) equals to or exceeds the offset threshold levels in Table 4-1 of Rule 2201.

The following table compares the post-project facility-wide annual emissions in order to determine if offsets will be required for this project.

<b>Pollutant</b>	<b>SSPE2 (lb/yr)</b>	<b>Offset Threshold Levels (lb/yr)</b>	<b>Offsets Required?</b>
VOC	> 50,000	20,000	Yes

**2. Quantity of Offsets Required**

As discussed above, the facility is an existing Major Source for VOC and the SSPE2 is greater than the offset thresholds; therefore offset calculations will be required for this project.

Per Sections 4.7.1 and 4.7.3, the quantity of offsets in pounds per year for VOC is calculated as follows for sources with an SSPE1 greater than the offset threshold levels before implementing the project being evaluated.

$$\text{Offsets Required (lb/year)} = (\Sigma[\text{PE2} - \text{BE}] + \text{ICCE}) \times \text{DOR, for all new or modified emissions units in the project,}$$

Where,

PE2 = Post Project Potential to Emit, (lb/year)

BE = Baseline Emissions, (lb/year)

ICCE = Increase in Cargo Carrier Emissions, (lb/year)

DOR = Distance Offset Ratio, determined pursuant to Section 4.8

$\Sigma\text{PE2}$  and  $\Sigma\text{BE}$  are calculated in Sections VII.C.1 and VII.C.2. There are no increases in cargo carrier emissions. Therefore

$$\text{Offsets Required (lb/year)} = \Sigma[\text{PE2} - \text{BE}] \times \text{DOR} = [\Sigma\text{PE2} - \Sigma\text{BE}] \times \text{DOR}$$

$$\Sigma \text{BE}_{\text{fermentation}} = 410,502 \text{ lb-VOC/year}$$

$$\Sigma \text{BE}_{\text{storage}} = 0 \text{ lb-VOC/year}$$

$$\Sigma \text{PE2}_{\text{fermentation}} = 410,502 \text{ lb-VOC/year}$$

$$\Sigma \text{PE2}_{\text{storage}} = 5,000 \text{ lb-VOC/year}$$

$$\begin{aligned} \text{Offsets Required (lb/year)} &= [(410,502 + 5,000) - (410,502 + 0)] \times \text{DOR} \\ &= 5,000 \text{ lb-VOC/year} \times \text{DOR} \end{aligned}$$

$$\begin{aligned} \text{Quarterly Offsets Required} &= 5,000 \text{ lb-VOC/yr} + 4 \text{ qtrs/yr} \\ &= 1,250 \text{ lb-VOC/quarter} \end{aligned}$$

Emission increases for this project are all due to storage tank operations which are uniform for each quarter.

The applicant has proposed use of ERC certificate S-3384-1 to offset the increases in VOC emissions associated with this project and has demonstrated legal rights to 2,000 lb-VOC/quarter from this certificate. Since this certificate is based on emission reductions located more than 15 miles from this stationary source,

DOR = 1.5 (pursuant to section 4.8)

Total quarterly ERC requirements based on use of this certificate are thus:

1,250 lb-VOC/qtr per x 1.5 (DOR) = 1,875 lb-VOC/Quarter

<u>1<sup>st</sup> Quarter</u>	<u>2<sup>nd</sup> Quarter</u>	<u>3<sup>rd</sup> Quarter</u>	<u>4<sup>th</sup> Quarter</u>
1,875	1,875	1,875	1,875

Available VOC credits from ERC certificate S-3384-1 and the portion of the certificate demonstrated to be available to the applicant in lb/qtr are listed as follows:

	<u>1<sup>st</sup> Quarter</u>	<u>2<sup>nd</sup> Quarter</u>	<u>3<sup>rd</sup> Quarter</u>	<u>4<sup>th</sup> Quarter</u>
ERC #S-3384-1	2,000	2,000	2,000	2,000
Available To Applicant	2,000	2,000	2,000	2,000

As seen above, the facility has sufficient credits to fully offset the quarterly VOC emissions increases associated with this project.

**Proposed Rule 2201 (offset) Conditions:**

**The following conditions will be placed on ATC's C-625-383-0 through -431-0:**

- Prior to operating any piece of equipment authorized by Authority to Construct permits C-625-383-0 through -431-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter – 1,250 lb, 2nd quarter – 1,250 lb, 3rd quarter – 1,250 lb, and fourth quarter – 1,250 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 9/21/06). [District Rule 2201]
- ERC Certificate Number S-3384-1 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of these Authority to Construct permits. [District Rule 2201]

## C. Public Notification

### 1. Applicability

Public noticing is required for:

- a. Any new Major Source, which is a new facility that is also a Major Source,
- b. Major Modifications,
- c. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
- d. Any project which results in the offset thresholds being surpassed, and/or
- e. Any project with an SSIPE of greater than 20,000 lb/year for any pollutant.

#### a. New Major Source

A New Major Source is a new facility, which is also a major source. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

#### b. Major Modification

As demonstrated in VII.C.7, this project is a Major Modification; therefore, public noticing for Major Modification purposes is required.

#### c. PE > 100 lb/day

Applications which include a new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. As indicated in Section VII.C.2 above, several of the new fermentation emissions units associated with tanks in this project have a Potential to Emit exceeding 100 lb-VOC/day. Therefore, public noticing for PE > 100 lb/day purposes is required.

#### d. Offset Threshold

Public notification is required if the Pre-Project Stationary Source Potential to Emit (SSPE1) is increased from a level below the offset threshold to a level exceeding the emissions offset threshold, for any pollutant.

The following table compares the SSPE1 with the SSPE2 in order to determine if any offset thresholds have been surpassed with this project.

Pollutant	SSPE1 (lb/year)	SSPE2 (lb/year)	Offset Threshold	Public Notice Required?
VOC	>50,000	>50,000	20,000 lb/year	No

As detailed above, there were no thresholds surpassed with this project; therefore public noticing is not required for offset purposes.

**e. SSIPE > 20,000 lb/year**

Public notification is required for any permitting action that results in a Stationary Source Increase in Permitted Emissions (SSIPE) of more than 20,000 lb/year of any one pollutant. According to District policy, the SSIPE is calculated as the Post Project Stationary Source Potential to Emit (SSPE2) minus the Pre-Project Stationary Source Potential to Emit (SSPE1), i.e.  $SSIPE = SSPE2 - SSPE1$ .

For the purposes of this project, the difference in SSPE will only result from the changes in emissions associated with the units in this project. Therefore, the annual emission rates from the units in this project, not the SSPE for the entire facility, will be used to determine the SSIPE.

<b>Pollutant</b>	<b>SSPE2 (lb/year)</b>	<b>SSPE1 (lb/year)</b>	<b>SSIPE (lb/year)</b>
VOC	5,000	0	5,000

As demonstrated above, the SSIPE was determined to be less than 20,000 lb/year for all pollutants; therefore public noticing for SSIPE purposes is not required.

**2. Public Notice Action**

As discussed above, public noticing is required for this project since it is both a Major Modification and includes new emissions units with a Potential to emit exceeding 100 lb/day. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and EPA and a public notice will be published in a local newspaper of general circulation prior to the issuance of the ATC for this equipment.

**D. Daily Emission Limits (DEL's)**

Per Sections 3.15 and 5.7.2, daily emission limitations which reflect all applicable emission limits shall be included on all ATC's and PTO's. The following conditions will be placed on the ATC's and PTO's to enforce the requirements of this section:

Wine fermentation tanks (all permitted for red wine fermentation):

- The VOC emissions rate for fermentation operations in this tank shall not exceed 3.46 lb/day per 1000 gallons of tank capacity. [District Rule 2201]
- Total annual VOC emissions from all wine fermentation operations at this facility shall not exceed 410,502 lb per year. [District Rule 2201]

- Total annual VOC emissions from wine fermentation operations shall be determined by the following formula: Total annual VOC emissions = (Total Annual Red Wine Production-gal) x (6.2 lb-VOC/1000 gal) + (Total Annual White Wine Production-gal) x (2.5 lb-VOC/1000 gal). [District Rule 2201]

Units C-383-0 through -387-0:

- Ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
- The maximum wine storage throughput in this tank shall not exceed 392,000 gallons per day. [District Rule 2201]

Units C-388-0 through -401-0:

- Ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
- The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

Units C-402-0 through -431-0:

- Ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
- The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

In addition, in order to enforce the applicant's proposed annual VOC limit for the wine storage operations in units C-629-383-0 through -431-0, the following conditions will be included on each of the wine storage tank ATC's within this project:

- Combined annual VOC emissions from all wine storage operations under permit units C-629-383 through C-629-431 shall not exceed 5,000 pounds per year. [District Rule 2201]
- The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
- Combined annual VOC emissions from wine storage operations under permit units C-629-383 through C-629-431 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]

## **E. Compliance Assurance**

### **1. Source Testing**

Pursuant to District Policy APR 1705, source testing is not required to demonstrate compliance with Rule 2201.

### **2. Monitoring**

No monitoring is required to demonstrate compliance with Rule 2201.

### **3. Recordkeeping**

Recordkeeping is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201. In addition, recordkeeping is also required for winery tanks pursuant to District Rule 4694, *Wine Fermentation and Storage Tanks*. All records shall be retained on site for a period of at least five years and made available to District inspection upon request. The following conditions will be included on the ATC's and PTO's to ensure continued compliance with the recordkeeping requirements:

- Records shall be retained on-site for a minimum of five years and made available for District inspection upon request. [District Rule 4694]
- When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 2201 and 4694]
- When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rules 2201 and 4694]

### **4. Reporting**

No reporting is required to demonstrate compliance with District Rule 2201.

## **F. Ambient Air Quality Analysis**

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. However, since this project involves only VOC and no ambient air quality standard exists for VOC, an AAQA is not required for this project.

## **G. Compliance Certification**

The compliance certification is required for any project, which constitutes a New Major Source or a Federal Major Modification.

Section 4.15.2 of this Rule requires the owner of a new Major Source or a source undergoing a Title I Modification to demonstrate to the satisfaction of the District that all other Major Sources owned by such person and operating in California are in compliance or are on a schedule for compliance with all applicable emission limitations and standards. As discussed in the preceding sections, this project does constitute a Federal Major Modification, therefore this requirement is applicable.

Included in Appendix H is O'Neil Beverages Company's compliance certification.

## **H. Alternative Siting Analysis**

Alternative siting analysis is required for any project, which constitutes a New Major Source or a Federal Major Modification.

The current project occurs at an existing winery with a pre-project total wine tank volume of 25,866,511 gallons. The applicant proposes to install new winery tanks totaling 3,367,000 gallons in volume, which represents an increase of 13% of the existing total wine tank volume.

In addition to winery tanks, the operation of a winery requires a large number support equipment, services and structures such as raw material receiving stations, crushers, piping, filtering and refrigeration units, warehouses, laboratories, bottling and shipping facilities, and administration buildings.

Since the current project involves only a minimal increase in the winery's total tank volume and no change to any other facets of the operation, the existing site will result in the least possible impact from the project. Alternative sites would involve the relocation and/or construction of various support structures and facilities on a much greater scale, and would therefore result in a much greater impact.

## **District Rule 2520 Federally Mandated Operating Permits**

This facility is subject to this Rule, and their Title V Operating Permit has been finalized by the District. The proposed modification is a Minor Modification to the Title V Permit pursuant to Section 3.20 of this rule. As discussed above, the facility has not applied for a Certificate of Conformity (COC); therefore, the facility must apply to modify their Title V permit with a minor modification, prior to operating with the proposed modifications. Continued compliance with this rule is expected.

### **District Rule 4001 New Source Performance Standards**

This rule incorporates NSPS from Part 60, Chapter 1, Title 40, Code of Federal Regulations (CFR); and applies to all new sources of air pollution and modifications of existing sources of air pollution listed in 40 CFR Part 60. However, no subparts of 40 CFR Part 60 apply to wine fermentation and storage tank operations. Therefore, no further discussion is required.

### **District Rule 4002 National Emission Standards for Hazardous Air Pollutants (NESHAP's)**

This rule incorporates NESHAPs from Part 61, Chapter I, Subchapter C, Title 40, CFR and the NESHAPs from Part 63, Chapter I, Subchapter C, Title 40, CFR; and applies to all sources of hazardous air pollution listed in 40 CFR Part 61 or 40 CFR Part 63. However, no subparts of 40 CFR Part 61 or 40 CFR Part 63 apply to wine fermentation and storage tank operations. Therefore, no further discussion is required.

### **District Rule 4102 Nuisance**

Section 4.0 prohibits discharge of air contaminants, which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected. Compliance with the requirements of this rule is ensured by the following condition, currently located on the facility wide permit for this facility:

- No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

### **California Health & Safety Code 41700 (Health Risk Assessment)**

District Policy APR 1905 - Risk Management Policy for Permitting New and Modified Sources specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

As discussed above, there are only increases in daily VOC emissions with this project. The VOC's emitted from wine storage tanks are 100% ethanol. Ethanol is not a Hazardous Air Pollutant (HAP) as defined by Section 44321 of the California Health and Safety Code. Therefore, there are no increases in HAP emissions associated with any emission units in this project, and a health risk assessment is not necessary. No further discussion is required.

## **District Rule 4694 Wine Fermentation and Storage Tanks**

The purpose of this rule is to reduce emissions of volatile organic compounds (VOC) from the fermentation and bulk storage of wine, or achieve equivalent reductions from alternative emission sources. This rule is applicable to all facilities with fermentation emissions in excess of 10 tons-VOC/year. The storage tank provisions of this rule apply to all tanks with capacity in excess of 5,000 gallons.

Section 5.1 requires the winery operator achieve Required Annual Emissions Reductions (RAER) equal to at least 35% of the winery's Baseline Fermentation Emissions (BFE). Per the definition of RAER in Section 3.25 of the Rule, the RAER may be achieved by any combination of Fermentation Emission Reductions (FER), Certified Emission Reductions (CER) or District Obtained Emission Reductions (DOER) as established in the facility's District-approved Rule 4694 Compliance Plan, due every three years on December 1<sup>st</sup> beginning in 2006. The facility has submitted the required plan to the District and is currently satisfying the required emission reductions in the form of Certified Emission Reductions.

Section 5.2 places specific restrictions on wine storage tanks with 5,000 gallons or more in capacity when such tanks are not constructed of wood or concrete. Section 5.2.1 requires these tanks to be equipped and operated with a pressure-vacuum relief valve meeting all of the following requirements:

- The pressure-vacuum relief valve shall operate within 10% of the maximum allowable working pressure of the tank,
- The pressure-vacuum relief valve shall operate in accordance with the manufacturer's instructions, and
- The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings.
- The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21.

Therefore, the following conditions will be placed on the permit for each storage tank with capacity greater than 5,000 gallons and not constructed of concrete or wood to ensure compliance with the requirements of Section 5.2.1:

- When used for wine storage, this tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rule 4694]
- When this tank is used for wine storage, the pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21 [District Rule 4694]

Section 5.2.2 requires that the temperature of the stored wine be maintained at or below 75° F.

The following conditions will be placed on the permit for each storage tank with capacity greater than 5,000 gallons and not constructed of concrete or wood to ensure compliance with the requirements of Section 5.2.2:

- The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]

Every three years, Section 6.1 and 6.2 require the facility to submit a Three-Year Compliance Plan and a Three-Year Compliance Plan Verification respectively. Section 6.3 requires that an Annual Compliance Plan Demonstration be submitted to the District no later than February 1 of each year to show compliance with the applicable requirements of the Rule. Section 6.4 requires that records required by this rule be maintained, retained on-site for a minimum of five years, and made available to the APCO upon request. Section 6.4.3 requires that all monitoring be performed for any Certified Emission Reductions as identified in the facility's Three-Year Compliance Plan and that the records of all monitoring be maintained. The following conditions on the facility-wide permit ('-0-1) ensure compliance:

- A Three-Year Compliance Plan that demonstrates compliance with the requirements of Section 5.1 of District Rule 4694 for each year of the applicable compliance period shall be submitted to the District by no later than December 1, 2006, and every three years thereafter on or before December 1. [District Rule 4694]
- A Three-Year Compliance Plan Verification that demonstrates that the Three-Year Compliance Plan elements are in effect shall be submitted to the District by no later than July 1, 2007, and every three years thereafter on or before July 1. [District Rule 4694]
- An Annual Compliance Plan Demonstration that shows compliance with the applicable requirements of this rule shall be submitted to the District by no later than February 1, 2008, and every year thereafter on or before February 1. [District Rule 4694]
- Operators using CER to mitigate fermentation emissions shall perform all monitoring and recordkeeping, as established in their approved Three-Year Compliance Plan, and shall maintain all records necessary to demonstrate compliance. [District Rule 4694]
- All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 4694]

Section 6.4.1 requires that records be kept for each fermentation batch. This project does not deal with wine fermentation. The following condition will be placed on the ATC for each fermentation tank to ensure compliance:

- For each batch of must fermented in this tank, the operator shall record the fermentation completion date, the total gallons of must fermented, the average fermentation temperature and the uncontrolled fermentation emissions and fermentation emission reductions (calculated per the emission factors given in District Rule 4694). The information shall be recorded by the tank Permit to Operate number and by wine type, stated as either red wine or white wine. [District Rules 2201 and 4694]

Section 6.4.2 requires that weekly records be kept of wine volume and temperature in each storage tank. All tanks in this facility are storage tanks. Therefore, the following conditions will be placed on the permit for each storage tank to ensure compliance with the requirements of Section 6.4.2:

- When this tank is used for wine storage, daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
- When this tank is used for wine storage, the operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine.[District Rule 4694]

Section 6.4.3 requires that all monitoring be performed for any Certified Emission Reductions as identified in the facility's Three-Year Compliance Plan and that the records of all monitoring be maintained. The following condition on the facility-wide permit ('-0-1) ensures compliance:

- Operators using CER to mitigate fermentation emissions shall perform all monitoring and recordkeeping, as established in their approved Three-Year Compliance Plan, and shall maintain all records necessary to demonstrate compliance. [District Rule 4694]

### **California Health & Safety Code 42301.6 (School Notice)**

The District has verified that this site is not located within 1,000 feet of a school. Therefore, pursuant to California Health and Safety Code 42301.6, a school notice is not required.

### **California Environmental Quality Act (CEQA)**

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities.

- Identify the ways that environmental damage can be avoided or significantly reduced.
- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

**Greenhouse Gas (GHG) Significance Determination**

The District's engineering evaluation (this document) and District FYI 260 (see Appendix I) demonstrates that the project would not result in an increase in project specific greenhouse gas emissions. The District therefore concludes that the project would have a less than cumulatively significant impact on global climate change.

**District CEQA Findings**

The District is the Lead Agency for this project because there is no other agency with broader statutory authority over this project. The District performed an Engineering Evaluation (this document) for the proposed project and determined that the activity will occur at an existing facility and the project involves negligible expansion of the existing use. Furthermore, the District determined that the activity will not have a significant effect on the environment. The District finds that the activity is categorically exempt from the provisions of CEQA pursuant to CEQA Guideline § 15031 (Existing Facilities), and finds that the project is exempt per the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment (CEQA Guidelines §15061(b)(3)).

**IX. RECOMMENDATION**

Compliance with all applicable rules and regulations is expected. Issue Authorities to Construct C-629-333-2 through -382-2, and -383-0 though -431-0 subject to the permit conditions on the attached draft Authorities to Construct in Appendix J.

**X. BILLING INFORMATION**

Permit Number	Fee Schedule	Fee Description	Annual Fee
C-629-333-2	3020-05-B	6,500 gallons	\$93
C-629-334-2	3020-05-B	6,500 gallons	\$93
C-629-335-2	3020-05-B	6,500 gallons	\$93
C-629-336-2	3020-05-B	6,500 gallons	\$93
C-629-337-2	3020-05-B	6,500 gallons	\$93
C-629-338-2	3020-05-B	6,500 gallons	\$93
C-629-339-2	3020-05-E	196,000 gallons	\$246
C-629-340-2	3020-05-E	196,000 gallons	\$246
C-629-341-2	3020-05-E	196,000 gallons	\$246

C-629-342-2	3020-05-E	196,000 gallons	\$246
C-629-343-2	3020-05-D	86,780 gallons	\$185
C-629-344-2	3020-05-D	86,780 gallons	\$185
C-629-345-2	3020-05-D	86,780 gallons	\$185
C-629-346-2	3020-05-D	86,780 gallons	\$185
C-629-347-2	3020-05-D	86,780 gallons	\$185
C-629-348-2	3020-05-D	86,780 gallons	\$185
C-629-349-2	3020-05-B	13,300 gallons	\$93
C-629-350-2	3020-05-B	13,300 gallons	\$93
C-629-351-2	3020-05-B	13,300 gallons	\$93
C-629-352-2	3020-05-B	13,300 gallons	\$93
C-629-353-2	3020-05-B	13,300 gallons	\$93
C-629-354-2	3020-05-B	13,300 gallons	\$93
C-629-355-2	3020-05-B	13,300 gallons	\$93
C-629-356-2	3020-05-B	13,300 gallons	\$93
C-629-357-2	3020-05-B	13,300 gallons	\$93
C-629-358-2	3020-05-B	13,300 gallons	\$93
C-629-359-2	3020-05-C	45,226 gallons	\$135
C-629-360-2	3020-05-C	45,226 gallons	\$135
C-629-361-2	3020-05-C	45,226 gallons	\$135
C-629-362-2	3020-05-C	45,226 gallons	\$135
C-629-363-2	3020-05-C	45,226 gallons	\$135
C-629-364-2	3020-05-C	45,226 gallons	\$135
C-629-365-2	3020-05-E	120,000 gallons	\$246
C-629-366-2	3020-05-E	120,000 gallons	\$246
C-629-367-2	3020-05-D	87,000 gallons	\$185
C-629-368-2	3020-05-D	87,000 gallons	\$185
C-629-369-2	3020-05-D	87,000 gallons	\$185
C-629-370-2	3020-05-D	87,000 gallons	\$185
C-629-371-2	3020-05-D	87,000 gallons	\$185
C-629-372-2	3020-05-D	87,000 gallons	\$185
C-629-373-2	3020-05-D	87,000 gallons	\$185
C-629-374-2	3020-05-D	87,000 gallons	\$185
C-629-375-2	3020-05-D	87,000 gallons	\$185
C-629-376-2	3020-05-D	87,000 gallons	\$185
C-629-377-2	3020-05-D	87,000 gallons	\$185
C-629-378-2	3020-05-D	87,000 gallons	\$185
C-629-379-2	3020-05-D	87,000 gallons	\$185
C-629-380-2	3020-05-D	87,000 gallons	\$185
C-629-381-2	3020-05-D	87,000 gallons	\$185
C-629-382-2	3020-05-D	87,000 gallons	\$185
C-629-383-0	3020-05-E	350,000 gallons	\$246
C-629-384-0	3020-05-E	350,000 gallons	\$246
C-629-385-0	3020-05-E	350,000 gallons	\$246
C-629-386-0	3020-05-E	350,000 gallons	\$246

C-629-387-0	3020-05-E	350,000 gallons	\$246
C-629-388-0	3020-05-D	87,000 gallons	\$185
C-629-389-0	3020-05-D	87,000 gallons	\$185
C-629-390-0	3020-05-D	87,000 gallons	\$185
C-629-391-0	3020-05-D	87,000 gallons	\$185
C-629-392-0	3020-05-D	87,000 gallons	\$185
C-629-393-0	3020-05-D	87,000 gallons	\$185
C-629-394-0	3020-05-D	87,000 gallons	\$185
C-629-395-0	3020-05-D	87,000 gallons	\$185
C-629-396-0	3020-05-D	87,000 gallons	\$185
C-629-397-0	3020-05-D	87,000 gallons	\$185
C-629-398-0	3020-05-D	87,000 gallons	\$185
C-629-399-0	3020-05-D	87,000 gallons	\$185
C-629-400-0	3020-05-D	87,000 gallons	\$185
C-629-401-0	3020-05-D	87,000 gallons	\$185
C-629-402-0	3020-05-B	13,300 gallons	\$93
C-629-403-0	3020-05-B	13,300 gallons	\$93
C-629-404-0	3020-05-B	13,300 gallons	\$93
C-629-405-0	3020-05-B	13,300 gallons	\$93
C-629-406-0	3020-05-B	13,300 gallons	\$93
C-629-407-0	3020-05-B	13,300 gallons	\$93
C-629-408-0	3020-05-B	13,300 gallons	\$93
C-629-409-0	3020-05-B	13,300 gallons	\$93
C-629-410-0	3020-05-B	13,300 gallons	\$93
C-629-411-0	3020-05-B	13,300 gallons	\$93
C-629-412-0	3020-05-B	13,300 gallons	\$93
C-629-413-0	3020-05-B	13,300 gallons	\$93
C-629-414-0	3020-05-B	13,300 gallons	\$93
C-629-415-0	3020-05-B	13,300 gallons	\$93
C-629-416-0	3020-05-B	13,300 gallons	\$93
C-629-417-0	3020-05-B	13,300 gallons	\$93
C-629-418-0	3020-05-B	13,300 gallons	\$93
C-629-419-0	3020-05-B	13,300 gallons	\$93
C-629-420-0	3020-05-B	13,300 gallons	\$93
C-629-421-0	3020-05-B	13,300 gallons	\$93
C-629-422-0	3020-05-B	13,300 gallons	\$93
C-629-423-0	3020-05-B	13,300 gallons	\$93
C-629-424-0	3020-05-B	13,300 gallons	\$93
C-629-425-0	3020-05-B	13,300 gallons	\$93
C-629-426-0	3020-05-B	13,300 gallons	\$93
C-629-427-0	3020-05-B	13,300 gallons	\$93
C-629-428-0	3020-05-B	13,300 gallons	\$93
C-629-429-0	3020-05-B	13,300 gallons	\$93
C-629-430-0	3020-05-B	13,300 gallons	\$93
C-629-431-0	3020-05-B	13,300 gallons	\$93

**Appendices:**

- Appendix A, Existing ATC's C-629-330-1 through -382-1
- Appendix B, Pre-Project Equipment Descriptions
- Appendix C, Post Project Equipment Descriptions
- Appendix D, Annual VOC Emission Factor Curve Fit Equation Determination
- Appendix E, BACT Guidelines and Top Down VOC BACT Analysis
- Appendix F, District FYI 114
- Appendix G, Post Project Fermentation Emission Potential (PE\*)
- Appendix H, Compliance Certification Letter
- Appendix I, District FYI 260
- Appendix J, Draft ATC's

## **Appendix A**

Existing ATC's  
C-629-330-1 through -382-1



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-333-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0290) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-333-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 31,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-333-1: Mar 30 2010 8:04AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



# San Joaquin Valley AIR POLLUTION CONTROL DISTRICT

## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-334-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

### EQUIPMENT DESCRIPTION:

MODIFICATION OF 6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0291) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

## CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-334-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 31,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-6950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## **AUTHORITY TO CONSTRUCT**

**PERMIT NO:** C-629-335-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC

**MAILING ADDRESS:**  
8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:**  
8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0292) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

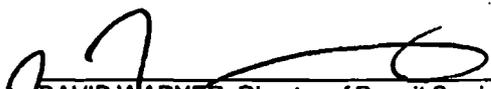
### **CONDITIONS**

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-335-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 31,000 gallons per day. [District Rule 2201]

**CONDITIONS CONTINUE ON NEXT PAGE**

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-335-1: Mar 30 2010 8:04AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-336-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0293) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

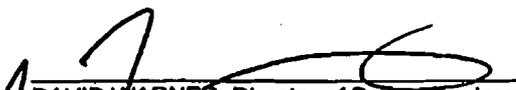
### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-336-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 31,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
APCO-336-1: MAR 30 2010 9:04AM - BROWARD : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-337-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC

**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0294) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-337-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 31,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services

C-629-337-1, MAR 30 2010 9:04AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine-ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

**AUTHORITY TO CONSTRUCT**

**PERMIT NO:** C-629-338-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0295) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

**CONDITIONS**

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-338-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 31,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-338-1 - 03/30/10 8:04AM - BROWND - Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
**AIR POLLUTION CONTROL DISTRICT**

**AUTHORITY TO CONSTRUCT**

**PERMIT NO:** C-629-339-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0622) WITH PRESSURE/VACUUM VALVE AND INSULATION; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; INCREASE DAILY WINE STORAGE THROUGHPUT LIMIT TO 392,000 GALLONS; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

**CONDITIONS**

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-339-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
 DAVID WARNER, Director of Permit Services  
C-629-339-1: M03 2010 8 04AM - BROWN - Joint Inspection NOT Required

7. The maximum wine storage throughput in this tank shall not exceed 392,000 gallons per day. [District Rule 2201]
8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-340-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0623) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; INCREASE DAILY WINE STORAGE THROUGHPUT LIMIT TO 392,000 GALLONS; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-340-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-340-1: Mar 30 2010 9:04AM - BROWND : Joint Inspection NOT Required

7. The maximum wine storage throughput in this tank shall not exceed 392,000 gallons per day. [District Rule 2201]
8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
**AIR POLLUTION CONTROL DISTRICT**

## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-341-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC

MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0624) WITH PRESSURE/VACUUM VALVE AND INSULATION; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; INCREASE DAILY WINE STORAGE THROUGHPUT LIMIT TO 392,000 GALLONS; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-341-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Sayed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-341-1: Mar 30 2010 8:04AM - BROWNHD : Joint Inspection NOT Required

7. The maximum wine storage throughput in this tank shall not exceed 392,000 gallons per day. [District Rule 2201]
8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
**AIR POLLUTION CONTROL DISTRICT**

# AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-342-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0625) WITH PRESSURE/VACUUM VALVE AND INSULATION; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; INCREASE DAILY WINE STORAGE THROUGHPUT LIMIT TO 392,000 GALLONS; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

## CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-342-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
Permit C-629-342-1: Issued 03/30/2010 8:04AM - BROWND : Joint Inspection NOT Required

7. The maximum wine storage throughput in this tank shall not exceed 392,000 gallons per day. [District Rule 2201]
8. Combined annual VOC emissions from all wine-storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

**AUTHORITY TO CONSTRUCT**

**PERMIT NO:** C-629-343-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK#R2035) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 86,780 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

**CONDITIONS**

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-343-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-343-1 Rev 30 2010 8:04AM - BROWND : John Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-344-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK#R2036) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 86,780 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

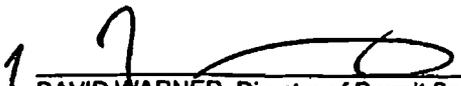
### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-344-1. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-344-1: Mar 30 2010 9:04AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
**AIR POLLUTION CONTROL DISTRICT**

**AUTHORITY TO CONSTRUCT**

**PERMIT NO:** C-629-345-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2037) WITH PRESSURE/VACUUM VALVE AND INSULATION; CORRECT TANK SIZE TO 86,780 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

**CONDITIONS**

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-345-1. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
 DAVID WARNER, Director of Permit Services  
C-629-345-1 - Issued 03/30/10 8:05AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
**AIR POLLUTION CONTROL DISTRICT**

**AUTHORITY TO CONSTRUCT**

**PERMIT NO:** C-629-346-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2038) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 86,780 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

**CONDITIONS**

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-346-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Sayed Sadredin, Executive Director / APCO

  
 DAVID WARNER, Director of Permit Services  
 C-629-346-1 Mar 20 2010 8:05AM - BROWARD Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-347-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2039) WITH PRESSURE/VACUUM VALVE AND INSULATION; CORRECT TANK SIZE TO 86,780 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

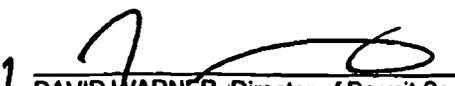
### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-347-1. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services

C-629-347-1: MAR 30 2010 9:05AM - BROWNNO Job Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-348-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
 PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2040) WITH PRESSURE/VACUUM VALVE AND INSULATION; CORRECT TANK SIZE TO 86,780 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-348-1. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
 \_\_\_\_\_  
**DAVID WARNER, Director of Permit Services**  
C-629-348-1 - MAR 30 2010 @ 05AM - BROWARD : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
**AIR POLLUTION CONTROL DISTRICT**

# AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-349-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3030) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

## CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-349-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-349-1 : Mar 30 2010 8:05AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-350-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC

MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3031) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-350-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-351-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC

MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3032) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-351-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-352-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3033) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-352-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-8950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-352-1: 03/30/2010 8:05AM - BROWND: Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-353-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3034) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-353-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-353-1: Mar 30 2010 6:05AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-354-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3035) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-354-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Sayed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
0-03-0897T: Apr 30 2010 6:05AM - BROWN : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-355-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3036) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-355-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services

C-629-355-1, MAR 30 2010 9:05AM - BROWNED : Joint Inspection NOT Required

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726 • (559) 230-5900 • Fax (559) 230-6061

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-356-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3037) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-356-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-356-1 Mar 30 2010 8:05AM - BROVIND Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-357-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC

**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3038) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-357-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Sayed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**

C-629-357-1 Mar 30 2010 8 05AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-358-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3039) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

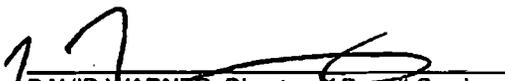
### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-358-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 66,500 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services  
C-629-358-1; MAR 30 2010 8 05AM - BROWARD - Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-359-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 45,500 GALLON STEEL WINE STORAGE TANK (TANK #R2006) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 45,226 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-359-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 135,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
APCO-359-1: Rev. 30/2010 8:05AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-360-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 45,500 GALLON STEEL WINE STORAGE TANK (TANK #R2007) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 45,226 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-360-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 135,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-360-1; Mar 10, 2010 @ 09AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-361-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 45,500 GALLON STEEL WINE STORAGE TANK (TANK #R2008) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 45,226 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-628-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-361-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 135,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-361-1; Mar 10 2010 8:06AM - BROWND; Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694].
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-362-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 45,500 GALLON STEEL WINE STORAGE TANK (TANK #R2009) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 45,228 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-362-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 135,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-362-1, Mar 30 2010 8:06AM - BROWND Job# Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-363-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93848-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93848

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 45,500 GALLON STEEL WINE STORAGE TANK (TANK #R2010) WITH PRESSURE/VACUUM VALVE AND INSULATION; CORRECT TANK SIZE TO 45,226 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-363-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 135,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-363-1: MA 30 2010 8:08AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-364-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 45,500 GALLON STEEL WINE STORAGE TANK (TANK #R2011) WITH PRESSURE/VACUUM VALVE AND INSULATION: CORRECT TANK SIZE TO 45,226 GALLONS; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-364-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 135,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-6960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Sayed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-364-1: Rev 10/2010 8:05AM - BROWN : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-365-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 120,000 GALLON STEEL WINE STORAGE TANK (TANK #R2021) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; INCREASE DAILY WINE STORAGE THROUGHPUT LIMIT TO 363,000 GALLONS; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-365-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO



**DAVID WARNER, Director of Permit Services**  
C-629-365-1: Mar 30 2010 8:06AM - BROWNED : Joint Inspection NOT Required

7. The maximum wine storage throughput in this tank shall not exceed 363,000 gallons per day. [District Rule 2201]
8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-366-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 120,000 GALLON STEEL WINE STORAGE TANK (TANK #R2022) WITH PRESSURE/VACUUM VALVE AND INSULATION; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; INCREASE DAILY WINE STORAGE THROUGHPUT LIMIT TO 363,000 GALLONS; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-366-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-366-1 : Mar 30 2010 9:05AM - BROWNED : Joint Inspection NOT Required

7. The maximum wine storage throughput in this tank shall not exceed 363,000 gallons per day. [District Rule 2201]
8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-367-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2041) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-367-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO



**DAVID WARNER**, Director of Permit Services  
C-629-367-1: Iss 30/2010 8:05AM - BROWND : Joint inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-368-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2042) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-368-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5980 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-369-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2043) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-369-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Sayed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

C-629-369-1: 03/30/2010 9:05AM - BROWN : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-370-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2044) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-370-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Sayed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

C-629-370-1; Mar 30 2010 4:05AM - BROWN; Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-371-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2045) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-371-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-371-1: Mar 30, 2010 @ 08AM - BROWN - Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-372-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC

**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2046) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-372-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

C-629-372-1 Mar 30 2010 9:05AM - BROWNED : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-373-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2047) WITH PRESSURE/VACUUM VALVE AND INSULATION; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-373-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-6960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Sayed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-373-1; MAY 30 2010 8 05AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-374-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2048) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-374-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-374-1: Rev 30 2010 E06AM - BROWARD : Joint Inspection NOT Required



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-374-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2048) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-374-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5980 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-374-1: Mar 30 2010 6:05AM - BROWNED : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume-percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-375-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2049) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-375-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-375-1: Mar 30 2010 8:07AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-376-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2050) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-376-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-6960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-376-1: Mar 30 2010 9:07AM - BRD/WHO : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-377-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2051) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-377-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**DAVID WARNER**, Director of Permit Services  
C-629-377-1; Mar 10 2010 8:07 AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694].
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-378-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC  
MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418.S LAC JAC AVE  
PARLIER, CA 93848

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2052) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-378-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

C-629-378-1: Mar 30 2010 8:07AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-379-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC

**MAILING ADDRESS:**

8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:**

8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2053) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-379-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

PERMIT NO: C-629-380-1

ISSUANCE DATE: 03/30/2010

LEGAL OWNER OR OPERATOR: O'NEILL BEVERAGES CO LLC

MAILING ADDRESS: 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

LOCATION: 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2054) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-380-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

C-629-380-1: 03/30/2010 6:07AM - BROWND : Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per-year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations; the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-381-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC  
**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2055) WITH PRESSURE/VACUUM VALVE AND INSULATION; INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-381-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.**

Seyed Sadredin, Executive Director / APCO

  
**DAVID WARNER, Director of Permit Services**  
C-629-381-1; MAR 30 2010 8:07AM - BROWND - Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 * P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-629-382-1

**ISSUANCE DATE:** 03/30/2010

**LEGAL OWNER OR OPERATOR:** O'NEILL BEVERAGES CO LLC

**MAILING ADDRESS:** 8418 S LAC JAC AVE  
PARLIER, CA 93648-9708

**LOCATION:** 8418 S LAC JAC AVE  
PARLIER, CA 93648

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2056) WITH PRESSURE/VACUUM VALVE AND INSULATION: INCREASE MAXIMUM ETHANOL CONTENT OF WINE STORED TO 23.9%; AND ADD A COMBINED ANNUAL VOC EMISSIONS LIMIT OF 8,991 LB/YEAR FROM ALL WINE STORAGE OPERATIONS UNDER PERMITS C-629-289 THROUGH C-629-382

### CONDITIONS

1. This Authority to Construct (ATC) shall be implemented prior to, or concurrently with, the modification and startup of the equipment authorized by ATC C-629-382-0. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
4. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]
5. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
6. The ethanol content of wine stored in this tank shall not exceed 23.9 percent by volume. [District Rule 2201]
7. The maximum wine storage throughput in this tank shall not exceed 261,000 gallons per day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services  
C-629-382-1 Mar 30 2010 8:07AM - BROWARD - Joint Inspection NOT Required

8. Combined annual VOC emissions from all wine storage operations under permit units C-629-289 through C-629-382 shall not exceed 8,991 pounds per year. [District Rule 2201]
9. The annual VOC wine storage emission factor for each wine ethanol content shall be calculated using the following equation:  $EF = 1.705259 \cdot P^{1.090407}$ ; where EF is the VOC emission factor in pounds of VOC per 1000 gallons of wine throughput; and P is the volume percent ethanol of the wine being transferred. [District Rule 2201]
10. Combined annual VOC emissions from wine storage operations under permit units C-629-289 through C-629-382 shall be determined as the sum of the emissions for each individual wine movement based on the volume transferred in each wine movement and the batch-specific wine storage emission factor calculated using the equation(s) specified within this permit. [District Rule 2201]
11. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rule 4694]
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]
13. The permittee shall maintain records of the combined annual VOC emissions for permit units C-629-289 through C-629-382 and those records shall be updated at least once per month. [District Rule 2201]
14. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4694]

## **Appendix B**

### **Pre-Project Equipment Descriptions**

Permit	Equipment Description
C-629-333-1	6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0290) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-334-1	6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0291) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-335-1	6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0292) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-336-1	6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0293) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-337-1	6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0294) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-338-1	6,500 GALLON STEEL WINE STORAGE TANK (TANK #R0295) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-339-1	196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0622) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-340-1	196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0623) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-341-1	196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0624) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-342-1	196,000 GALLON STEEL WINE STORAGE TANK (TANK #R0625) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-343-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK#R2035) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-344-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK#R2036) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-345-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2037) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-346-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2038) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-347-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2039) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-348-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2040) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-349-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3030) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-350-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3031) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING

C-629-351-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3032) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-352-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3033) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-353-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3034) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-354-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3035) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-355-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3036) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-356-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3037) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-357-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3038) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-358-1	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3039) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-359-1	45,226 GALLON STEEL WINE STORAGE TANK (TANK #R2006) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-360-1	45,226 GALLON STEEL WINE STORAGE TANK (TANK #R2007) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-361-1	45,226 GALLON STEEL WINE STORAGE TANK (TANK #R2008) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-362-1	45,226 GALLON STEEL WINE STORAGE TANK (TANK #R2009) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-363-1	45,226 GALLON STEEL WINE STORAGE TANK (TANK #R2010) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-364-1	45,226 GALLON STEEL WINE STORAGE TANK (TANK #R2011) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-365-1	120,000 GALLON STEEL WINE STORAGE TANK (TANK #R2021) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-366-1	120,000 GALLON STEEL WINE STORAGE TANK (TANK #R2022) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-367-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2041) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-368-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2042) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-369-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2043) WITH PRESSURE/VACUUM VALVE AND INSULATION

C-629-370-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2044) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-371-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2045) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-372-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2046) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-373-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2047) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-374-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2048) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-375-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2049) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-376-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2050) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-377-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2051) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-378-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2052) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-379-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2053) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-380-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2054) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-381-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2055) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-382-1	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2056) WITH PRESSURE/VACUUM VALVE AND INSULATION

## **Appendix C**

### **Post Project Equipment Descriptions**

Permit	Equipment Description
C-629-333-2	6,500 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0290) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-334-2	6,500 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0291) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-335-2	6,500 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0292) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-336-2	6,500 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0293) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-337-2	6,500 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0294) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-338-2	6,500 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0295) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-339-2	196,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0622) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-340-2	196,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0623) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-341-2	196,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0624) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-342-2	196,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R0625) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-343-2	86,780 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK#R2035) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-344-2	86,780 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK#R2036) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-345-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2037) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-346-2	86,780 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2038) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-347-2	86,780 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2039) WITH PRESSURE/VACUUM VALVE AND INSULATION

C-629-348-2	86,780 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2040) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-349-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3030) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-350-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3031) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-351-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3032) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-352-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3033) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-353-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3034) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-354-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3035) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-355-2	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3036) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-356-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3037) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-357-2	13,300 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R3038) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-358-2	13,300 GALLON STEEL WINE STORAGE TANK (TANK #R3039) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-359-2	45,226 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2006) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-360-2	45,226 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2007) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-361-2	45,226 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2008) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-362-2	45,226 GALLON STEEL WINE STORAGE TANK (TANK #R2009) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-363-2	45,226 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2010) WITH PRESSURE/VACUUM VALVE AND INSULATION

C-629-364-2	45,226 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2011) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-365-2	120,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2021) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-366-2	120,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2022) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-367-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2041) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-368-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2042) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-369-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2043) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-370-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2044) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-371-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2045) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-372-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2046) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-373-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2047) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-374-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2048) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-375-2	87,000 GALLON STEEL WINE STORAGE TANK (TANK #R2049) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-376-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2050) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-377-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2051) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-378-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2052) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-379-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2053) WITH PRESSURE/VACUUM VALVE AND INSULATION

C-629-380-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2054) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-381-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2055) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-382-2	87,000 GALLON STEEL RED AND WHITE WINE FERMENTATION AND WINE STORAGE TANK (TANK #R2056) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-383-0	350,000 GALLON STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R0626) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-384-0	350,000 GALLON STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R0627) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-385-0	350,000 GALLON STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R0628) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-386-0	350,000 GALLON STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R0629) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-387-0	350,000 GALLON STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R0630) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-388-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2057) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-389-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2058) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-390-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2059) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-391-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2060) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-392-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2061) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-393-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2062) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-394-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2063) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-395-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2064) WITH PRESSURE/VACUUM VALVE AND INSULATION

C-629-396-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2065) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-397-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2066) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-398-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2067) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-399-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2068) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-400-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2069) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-401-0	87,000 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R2070) WITH PRESSURE/VACUUM VALVE AND INSULATION
C-629-402-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3040) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-403-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3041) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-404-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3042) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-405-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3043) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-406-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3044) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-407-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3045) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-408-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3046) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-409-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3047) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-410-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3048) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-411-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3049) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING

C-629-412-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3050) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-413-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3051) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-414-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3052) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-415-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3053) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-416-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3054) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-417-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3055) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-418-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3056) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-419-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3057) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-420-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3058) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-421-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3059) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-422-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3060) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-423-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3061) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-424-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3062) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-425-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3063) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-426-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3064) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-427-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3065) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING

C-629-428-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3066) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-429-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3067) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-430-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3068) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING
C-629-431-0	13,300 STEEL RED AND WHITE WINE FREMENTATION AND WINE STORAGE TANK (TANK #R3069) WITH PRESSURE/VACUUM VALVE AND INSTALLED IN A CLIMATE CONTROLLED BUILDING

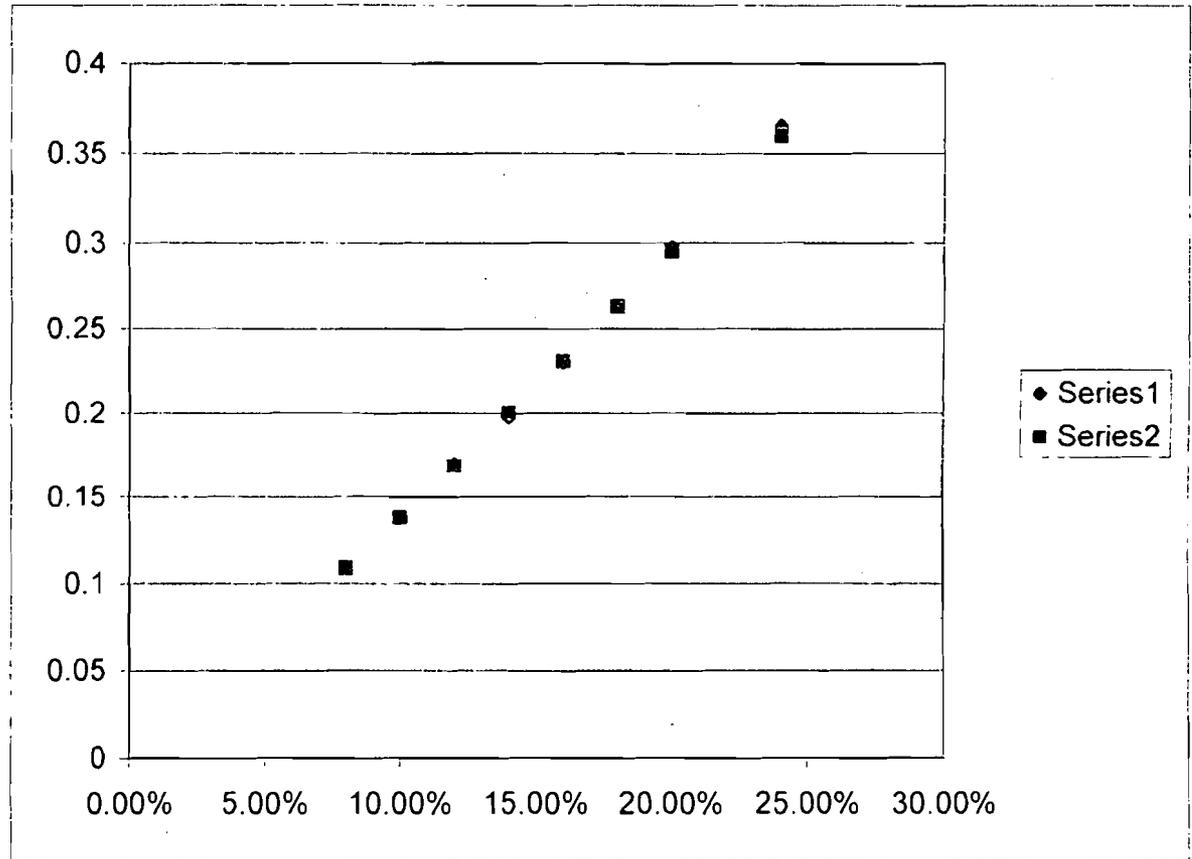
## **Appendix D**

### **Annual VOC Emission Factor Curve Fit Equation Determination**

### Curvefit for Annual Working Loss Emission Factor from FYI-114

Ef (actual per FYI-114)	% Ethanol	Ef (calc by correlation)
0.109	8.00%	0.109
0.138	10.00%	0.138
0.17	12.00%	0.169
0.198	14.00%	0.2
0.23	16.00%	0.231
0.263	18.00%	0.263
0.297	20.00%	0.295
0.365	24.00%	0.36

In Ef	In %
-2.2164074	-2.5257286
-1.9805016	-2.3025851
-1.7719568	-2.1202635
-1.6194882	-1.9661129
-1.469676	-1.8325815
-1.3356012	-1.7147984
-1.2140231	-1.6094379
1.0904072	0.533717
	1.705259



Series 1 = FYI-114  
Series 2 = correlation

$$Ef = A * (\% \text{ ethanol})^B$$

A = 1.705259  
B = 1.090407

## **Appendix E**

### **BACT Guidelines and Top Down BACT Analysis**

**Per » B A C T » [Bact Guideline.asp?category Level1=5&category Level2=4&category Level3=13&last Update=10](#) » 6 :**

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**Best Available Control Technology (BACT ) Guideline 5.4.13  
Last Update: 10/6/2009**

**Wine Storage Tank**

<b>Pollutant</b>	<b>Achieved in Practice or in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
VOC	1. Insulation or Equivalent**, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 degrees F, achieved within 60 days of completion of fermentation.	1. Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control) 2. Capture of VOCs and carbon adsorption or equivalent (95% control) 3. Capture of VOCs and absorption or equivalent (90% control) 4. Capture of VOCs and condensation or equivalent (70% control)	

*\*\*Tanks made of heat-conducting materials such as stainless steel may be insulated or stored indoors (in a completely enclosed building, except for vents, doors and other essential openings) to limit exposure of diurnal temperature variations. Tanks made entirely of non-conducting materials such as concrete and wood (except for fittings) are considered self-insulating.*

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in s a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

**This is a Summary Page for this Class of Source - Permit Specific BACT Determinations on Details Page.**

[Per » B A C T » Bact Guideline.asp?category Level1=5&category Level2=4&category Level3=14&last Update=10 » 6 :](#)

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**Best Available Control Technology (BACT ) Guideline 5.4.14  
Last Update: 10/6/2009**

**Wine Fermentation Tank**

<b>Pollutant</b>	<b>Achieved in Practice or in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
VOC	Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95 deg F	1. Capture of VOCs and Thermal Oxidation or Equivalent (88% control) 2. Capture of VOCs and Carbon Adsorption or Equivalent (86% control) 3. Capture of VOCs and Absorption or Equivalent (81% control) 4. Capture of VOCs and Condensation or Equivalent (81% control)	

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

**This is a Summary Page for this Class of Source - Permit Specific BACT Determinations on Details Page.**

## Top Down BACT Analysis for VOC Emissions:

### Step 1 - Identify All Possible Control Technologies

The SJVUAPCD BACT Clearinghouse guideline 5.4.13, 3<sup>rd</sup> quarter 2010, identifies achieved in practice BACT for wine storage tanks as follows:

- 1) Insulation or Equivalent\*\*, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 degrees F, achieved within 60 days of completion of fermentation.

The SJVUAPCD BACT Clearinghouse guideline 5.4.13, 1<sup>st</sup> quarter 2010, identifies technologically feasible BACT for wine storage tanks as follows:

- 1) Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control)
- 2) Capture of VOCs and carbon adsorption or equivalent (95% control)
- 3) Capture of VOCs and absorption or equivalent (90% control)
- 4) Capture of VOCs and condensation or equivalent (70% control)

*\*\*Tanks made of heat-conducting materials such as stainless steel may be insulated or stored indoors (in a completely enclosed building, except for vents, doors and other essential openings) to limit exposure of diurnal temperature variations. Tanks made entirely of non-conducting materials such as concrete and wood (except for fittings) are considered self-insulating.*

### Step 2 - Eliminate Technologically Infeasible Options

None of the above listed technologies are technologically infeasible.

### Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Rank by Control Effectiveness		
Rank	Control	Overall Capture & Control Efficiency <sup>1</sup>
1	Capture of VOCs and thermal or catalytic oxidation	98 %
2	Capture of VOCs and carbon adsorption	95 %
3	Capture of VOCs and absorption.	90 %
4	Capture of VOCs and condensation	70 %
5	Insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and 75 °F tank temperature control as defined in District Rule 4694. (Achieved in Practice and Industry Standard)	0 %

<sup>1</sup> Relative to "industry standard".

#### Step 4 - Cost Effectiveness Analysis

A cost-effective analysis is performed for each control technology which is more effective than meeting the requirements of District Rule 4694 plus tank insulation (achieved-in-practice BACT), as proposed by O'Neill. The cost-effectiveness analysis will be performed based on the following:

- Since the most cost effective approach will be achieved by installing a common control device for multiple tanks, the analysis will be based on this approach.
- To expand the scope and generality of this BACT, the cost-effectiveness analysis will be based on a hypothetical "industry-typical" storage tank operation consisting of a battery of twelve (12) storage tanks each with a capacity of 200,000 gallons. Total annual throughput for the hypothetical tank battery is 39.6 million gallons per year based on an individual annual throughput of 3,300,000 gallons per year each (equivalent to almost 17 turns per year of each storage tank versus an estimated industry average of 6 turns per tank<sup>2</sup>). Total throughput subject to VOC control by a common VOC control device is thus 39.6 MMgal/year. Based on economies of scale, it is obvious that any control found to not be cost-effective at this level of throughput would be even less cost-effective at lower capacities (such as proposed for this project with a total annual throughput of 5.95 million gallons per year).

#### Industry Standard

During the development of District Rule 4694, it was determined that use of pressure/vacuum valves and some level of refrigeration on wine storage tanks is a standard operation for large wineries in the San Joaquin Valley. Additionally, essentially all storage tanks are insulated. This was directly confirmed with four large wineries: Mission Bell (Madera), Gallo-Livingston, Bronco, and Robert Mondavi. Based on this, the wine storage tank VOC control requirements of District Rule 4694 and tank insulation are also determined to be "industry standard".

The emission factor for "industry standard" operation is determined based on Table 1 of the District's FYI-114, Estimating Emissions from Wine Storage Tanks (Appendix A), for an insulated storage tank with up to 20% ethanol content in the wine being stored:

$E_f$  (industry standard) = 0.297 lb-VOC/1000 gal of wine throughput

#### Uncontrolled emissions for Twelve-Tank Battery

Uncontrolled Emissions = Gallons Throughput/year x 0.297 lb-VOC/1000  
gallons

$$= (39.6 \times 10^6 \text{ gal/year}) \times (0.297 \text{ lb-VOC/1000}$$

gal)

Uncontrolled Emissions= 11,761 lb/year

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<sup>2</sup> Per discussions with the Wine Institute (Bob Calvin of Constellation Wines) during Rule 4694 development (8/16/05)

**Capture of VOCs with Thermal or Catalytic Oxidation/ Carbon Adsorption/Absorption or Condensation (Options 2,3,4, and 5)**

A common feature of all of these options is that they require installation of a collection system for delivering the VOC's from the tanks to the common control device. The analysis below indicates that these options are not cost effective by showing that just the annualized direct cost for the ductwork of the collection system and supporting structural steel and foundations alone is too large, when considered at the District's cost effectiveness threshold for VOC BACT, to justify the capital investment required by these options. This approach ignores additional major costs for the actual control device and its installation and for equipment sterilization systems for ductwork and control device, instrumentation and control systems for isolation of individual tanks in the battery, site specific factors due to limited plot space (known to be a significant factor at all wineries), and operating and maintenance costs for each system. Should all these additional cost factors be included, the calculated cost effectiveness would be substantially higher than indicated below.

**a. Control Efficiency**

Option 2 is capable of a 98% reduction in VOC emissions while the remaining options under consideration have lesser control efficiencies. Showing that all of the options under consideration are not cost effective at a 98% reduction level based on capital investment requirements of ductwork and steel alone is adequate since options other than thermal/catalytic oxidation would be even less cost effective at their actual (lower) reduction levels.

$$\begin{aligned} \text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.98 \\ &= 11,761 \text{ lb-VOC/year} \times 0.98 \\ &= 11,526 \text{ lb-VOC/year} \\ &= 5.76 \text{ tons-VOC/year} \end{aligned}$$

**b. Capital Investment For Installation of a VOC Collection System**

**Design and Estimate Basis:**

- The basis and approach for the capital cost estimate for ductwork and support steel is summarized in BACT Attachment 1.
- The collection system consists of stainless steel plate ductwork (stainless steel is required due to cleanliness and sterilization requirements for wine quality considerations and due to the food grade product status) with isolation valving, connecting twelve 200,000 gallon tanks to a common manifold system which ducts the combined vent to the common control device. The cost of dampers and isolation valving, installed in the ductwork, will not be included in the cost estimate.

- A minimum duct size is established at 6 inches diameter at each tank to ensure minimal backpressure of the tank during filling operations and to provide adequate strength for spanning between supports. The main header is 12" diameter to handle the potential for simultaneously venting all tanks based on a potential fill rate of 1000 gpm for each tank (per applicant) and a duct velocity of 2000 feet per minute.
- The ductwork is designed with features to facilitate clean-in-place (CIP) operation to allow for periodic sterilization procedures as required for food grade products. The CIP system includes strategically placed spray nozzles on the ductwork for injecting sterilizing solutions into the system. Cost impacts to install CIP systems to clean the ducting are not included in the cost estimate.
- The ductwork is supported on a structural steel piperack mounted on drilled concrete piers, running through the new tank battery. Ducting elevations are established to allow continuous free draining to the separator located at the control device.
- Unit Installed Costs for Ductwork: A direct cost estimate for 12" diameter stainless steel ductwork, installed in a San Joaquin Valley winery, was taken from a study prepared by Eichleay Engineering for the Wine Institute in conjunction with development of District Rule 4694.<sup>3</sup> The estimate is based on 2nd quarter 2005 dollars, and includes fittings, miscellaneous duct supports and other materials plus field labor costs required to install the ductwork, but does not include other associated indirect costs such as construction management, engineering, owner's cost, contingency, etc. BACT Attachment 1 presents the development of unit installed costs for stainless steel ducting based on the costs derived from the Eichleay estimate.
- Linear feet of ducting required was extracted from the Eichleay Estimate for a similar system at Gallo-Livingston (see BACT Attachment 1).
- Costs for structural steel supports and foundations were extracted from the Eichleay Estimate for a similar system at Gallo-Livingston (see BACT Attachment 1).
- Sales tax of 8% was applied to all materials.
- Indirect costs include Engineering, Construction Expense and Contractor's Fee and Contingency. Factors for these costs are taken from Peters & Timmerhaus<sup>4</sup>.
- Capital costs taken from the Eichleay estimate are 2005 dollars. These are escalated to 2009 based on 3% overall escalation per year.

#### Capital Investment (for ductwork and steel supports)

Fixed Capital Investment is summarized in the following table:

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<sup>3</sup> Eichleay Engineers of California, Fermenter VOC Emissions Control Cost Estimate (Revision 1), Eichleay Project Numbers 30892 and 30913, June 30, 2005

<sup>4</sup> Peters & Timmerhaus, Plant Design and Economics for Chemical Engineers, 2<sup>nd</sup> Edition, McGraw-Hill, 1968, p.140.



Annualized Capital Investment and Cost Effectiveness (based on ductwork):

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = 0.163 per District policy, amortizing over 10 years at 10%

Therefore,

Annualized Capital Investment = \$935,027 x 0.163 = \$152,409

Cost Effectiveness = Annualized Cost/Annual Emission Reductions

**Cost Effectiveness = \$152,409/5.76 tons-VOC = \$26,500/ton-VOC**

As shown above, the cost of VOC reduction by capture of VOCs with thermal or catalytic oxidation, carbon adsorption, absorption or condensation would be greater than the \$17,500/ton cost effectiveness threshold for VOC in the District BACT policy, based only on the direct cost required for the collection ducting. Therefore these options are not cost-effective and will not be considered for this project.

**Step 5 - Select BACT**

All identified feasible options with control efficiencies higher than the option proposed by the facility have been shown to not be cost effective. The facility has proposed Option 1, insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and achieve and maintain a continuous storage temperature not exceeding 75 °F within 60 days of completion of fermentation. These BACT requirements will be placed on the ATC as enforceable conditions.

**Attachments:**

- BACT 5.4.13 Attachment 1: Development of Direct Costs for Installation of a VOC Collection System on a Battery of Wine Storage Tanks
- BACT 5.4.13 Attachment 2: Plot Plan for Gallo-Livingston (Eichleay Study)
- BACT 5.4.13 Attachment 3: Ducting Costs for VOC-2 (Eichleay Study)
- BACT 5.4.13 Attachment 4: Structural Steel Costs for VOC-2 (Eichleay Study)
- BACT 5.4.13 Attachment 5: Foundation Costs for VOC-2 (Eichleay Study)

## **BACT 5.4.13 Attachment 1**

### **Development of Direct Costs for Installation of a VOC Collection System on a Battery of Wine Storage Tanks**

## **Background**

During the development of District Rule 4694 (Wine Fermentation and Storage Tanks), The Wine Institute commissioned a study by Eichleay Engineers of California to develop costs for installation of VOC controls on all wine fermentation tanks at the Gallo winery located at Livingston, CA. The SJVAPCD participated in development of the study and in the review of the final draft. The District reviewed this estimate (Eichleay study) in conjunction with the development of District Rule 4694 (see Appendix C, Final Draft Staff Report - Rule 4694, December 15, 2005). The District's review indicated that, although the District took issue with various scope elements of the overall estimate, the estimating methodology employed appears to be fundamentally sound and follows accepted practice in the engineering and construction industry, accurately estimating the material quantities required for the stated scope and applying reasonable unit rates and costs for materials and labor for development of direct costs.

The Eichleay study developed detailed direct cost estimates for four separate tank batteries at Gallo-Livingston; VOC-1, '-2, '-3 and '-4 (see plot diagram in Attachment A). The direct cost estimate scope for each battery included a stainless steel ducting manifold system connected to a VOC control device and structural steel ducting supports with associated foundations. VOC-2 is a tank battery consisting of twelve (12) 200,000 gallon capacity tanks, identical to the hypothetical "industry-typical" tank battery installation which forms the basis for the cost effectiveness calculations for this BACT determination. The estimates of ducting, steel supports and foundations prepared in the Eichleay study for VOC-2 can be used as a basis to establish costs for the cost effectiveness evaluation required by this BACT determination.

## **Approach and Estimate Basis**

### **Ducting**

Attachment B is the detailed direct cost estimate from the Eichleay study for ducting for VOC-2 (annotated to indicate the required subtotals). Since VOC-2 at Gallo-Livingston consists of twelve fermentation tanks rather than storage tanks, the diameter of the estimated ductwork is larger than required for storage-only tanks due to the much larger vent rate from fermentation. However, since the tank sizes and layout considerations would not be affected by tank utilization, the Eichleay estimate of total linear footage and duct fittings ductwork can be utilized directly. The estimate details in Attachment B are utilized in the following manner to develop ducting costs for the "industry typical" tank battery:

- Linear feet of ductwork required is taken directly from the Eichleay estimate for VOC-2 (Attachment B). Linear feet required for individual branch connections to each tank is given by the footage of 12" diameter ducting while the linear footage for the main header is represented by the balance of the ductwork for VOC-2. Based on this approach, 75 linear feet of ducting is required for branch connections to the tanks while 870 feet of ducting is required for the main

headers and the ducting run to the control device. Since the "industry-typical" ducting for storage tanks has been determined to be 6" diameter for branch connections and 12" diameter for the main header, the following material requirements are established for the "industry-typical" storage tank battery:

6" diameter ducting: 75 linear feet  
12" diameter ducting: 870 linear feet

- Unit direct cost (\$ per foot) of 12" diameter ducting can be determined by adding the labor and material costs required and dividing by the total linear footage of the particular diameter of ducting included in the estimate. For the 75 linear feet of 12" diameter ducting included in the Eichleay estimate for VOC-2, total labor and material costs were estimated at \$5,137 and \$5,650 respectively. Dividing each figure by 75 yields the unit labor and material costs for 12" diameter ducting:

Unit labor cost for 12" ducting: \$68.49/ft  
Unit material cost for 12" ducting: \$75.33/ft

- The Eichleay estimate did not include estimates of direct cost for 6" diameter duct. Therefore, it is necessary to develop a cost by appropriate factoring of the 12" diameter cost. To adjust the direct cost to a 6" system, cost equations for stainless steel plate ductwork are taken from the EPA Air Pollution Control Manual, Section 2, Chapter 1, Table 1.9, which indicates a cost equation for stainless steel plate duct as follows:

$$\text{Duct Cost} = 6.29 \times (\text{Duct Diameter}_{\text{inches}})^{1.23}$$

Using this equation form, it is apparent the relative cost of 6" duct versus 12" duct can be calculated as follows:

$$6" \text{ Duct Cost} = 12" \text{ Duct Cost} \times (6/12)^{1.23}$$

Since the EPA cost manual develops total direct cost based on applying additional factors to the duct cost, the use of the above factor for adjustment of the total direct cost is consistent with EPA cost estimation methods.

Therefore,

$$\text{Unit Labor Cost for 6" Duct} = \$68.49 \times (6/12)^{1.23} = \$29.20/\text{linear foot}$$

$$\text{Unit Material Cost for 6" Duct} = \$75.33 \times (6/12)^{1.23} = \$32.11/\text{linear foot}$$

### Structural Steel

- Structural steel cost can be assumed to be the same for the "industry-typical" system as for VOC-2 since the heights and sizes of structure will be the same. Attachment C is the Eichleay estimate of structural steel required for VOC-2,

annotated to show required subtotal. Based on this approach, structural steel cost for the industry-typical" case is as follows:

Purchased Structural Steel	:	\$287,630
Labor for Erection of Structural Steel:		\$45,273

### Foundations

- Cost for foundations for the structural steel towers can be assumed to be the same for the "industry-typical" system as for VOC-2 since the heights and sizes of structure are assumed to be the same. Attachment D is the Eichleay estimate of the foundations required for VOC-2, annotated to show required subtotal. Pricing is based on a subcontract price including labor and materials. Based on this approach, 32 drilled concrete piers are required at a subcontract cost of \$1,000 each.

**BACT 5.4.13 Attachment 2**  
**Plot Plan for Gallo-Livingston (Eichleay Study)**



**BACT 5.4.13 Attachment 3**  
**Ducting Costs for VOC-2 (Eichleay Study)**





**BACT 5.4.13 Attachment 4**  
**Structural Steel Costs for VOC-2 (Eichleay Study)**



**BACT 5.4.13 Attachment 5**  
**Foundation Costs for VOC-2 (Eichleay Study)**



**A. Top-Down BACT Analysis for VOC Emissions from Wine Fermentation Tanks**

**Step 1 - Identify All Possible Control Technologies**

The SJVUAPCD BACT Clearinghouse guideline 5.4.14, 3rd quarter 2010, identifies achieved in practice and technologically feasible BACT for wine fermentation tanks as follows:

1. Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95°F (current Achieved-in-Practice operation)
2. Adsorption (often using activated carbon, which transfers the VOC in the air onto a solid substrate);
3. Thermal or Catalytic Oxidation (conversion of the VOC to CO<sub>2</sub>);
4. Absorption ("scrubbers", which transfer the VOC in air emissions to a liquid waste stream);
5. Condensation (conversion of the VOC gases into liquids); and

**Step 2 - Eliminate Technologically Infeasible Options**

All of the options listed above are considered to be technologically feasible.

**Step 3 - Rank Remaining Control Technologies by Control Effectiveness**

The options enumerated above can be ranked as follows:

Rank by Control Effectiveness			
Rank	Option	Control	Overall Capture & Control Efficiency <sup>(*)</sup>
1	3	Capture of VOCs and thermal oxidation	88 % <sup>(**)</sup>
2	2	Capture of VOCs and carbon adsorption	86 %
3	4	Capture of VOCs and absorption.	81 %
4	5	Capture of VOCs and condensation	81 %
5	1	Temperature-Controlled Open Top Tank with Maximum Average Fermentation Temperature of 95°F	Baseline (Achieved-in-Practice)

(\*) Capture efficiency (90%) x removal efficiency for control device

(\*\*) Following recent District practice, thermal and catalytic oxidation will be ranked together.

## Step 4 - Cost Effectiveness Analysis

### General Approach for Cost Effectiveness

Due to differences in processing temperature, red wine has an emissions factor of 6.2-lb VOC/1,000 gallons whereas white wine has an emissions factor of 2.5-lb/1000 gallons of fermented wine per District Rule 4694, *Wine Fermentation and Storage Tanks*. In addition, red wine fermentation batches are completed in 3 to 5 days versus 10 to 14 days for white wine fermentation. Therefore, a red wine fermentation tank of a given size will potentially operate at significantly higher throughput and produce significantly higher emissions per unit of throughput relative to a white wine fermentation tank of the same size. As a result of these differences in emission rates, the cost effectiveness for controlling emissions from red wine will be fundamentally better than that for white wine and thus the cost effectiveness analysis will be first performed for red wine only. In the event a technology is shown to be cost effective for red wine, that particular technology will be analyzed for white wine fermentation as well.

The following emission control technologies have been determined to be technologically feasible for control of VOC emissions from wine fermentation tanks:

- Thermal Oxidation (88% control)
- Carbon Adsorption (86% control)
- Refrigerated Condenser (81% control)
- Wet Scrubber (81% control)

Recognizing that "thermal oxidation" includes both recuperative and regenerative thermal oxidizers the cost effectiveness of the following cases will be examined for the determination of BACT for wine fermentation:

- |        |   |
|--------|---|
| Case 1 | Thermal oxidation with 0% heat recovery (low capital/high operating cost)               |
| Case 2 | Regenerative thermal oxidation with 95% heat recovery (high capital/low operating cost) |
| Case 3 | Refrigerated Condensers   |
| Case 4 | Water scrubber  |
| Case 5 | Carbon adsorption   |

A cost-effectiveness analysis is not required for temperature-controlled fermentation since this option is Achieved-in-Practice. To establish a comparative physical scope of each of the above cases, the District will take an industry-wide approach based of applying the five different control technology cases to red wine fermentation tanks located at the E & J Gallo Winery at Livingston, California (Facility N-1237), rather than the O'Neill facility. The rationale for this is based on the following:

- The Gallo facility at Livingston is sufficiently representative of typical red wine fermentation facilities located at major source wineries to allow it to serve as a general model for the physical scope requirements of such facilities including the O'Neill facility.
- The Gallo facility is currently the largest winery in the world and the average fermentation tank size is larger than that of the O'Neill facility. Any control technology found to not be cost effective for the Gallo facility can be assumed to be not cost effective to smaller facilities such as O'Neill as well due to economies of scale. If any technology is determined to be cost effective at Gallo, it will then be analyzed for the O'Neill facility as well to confirm cost effectiveness for the smaller operation.

- The Gallo facility was used as a basis for engineering and cost effectiveness studies in development of District Rule 4694 and substantial scope and cost information is available for this facility pertaining to the scope of control system requirements and that of the ancillary systems required to support the basic emission control units (such as ductwork and supports and the CIP systems for the ductwork). The Eichleay study details the potential application of VOC controls to this facility and addresses many of the technical issues and the general site specific factors for wineries. This study developed two separate estimates, one for the fermentation control system installation ("Base Estimate") and a second "Utilities Estimate" to cover the clean-in-place system, the expansion of the plant electric utility and the instrument air system. District staff has reviewed the estimating methodology employed in the Eichleay estimates and found that the estimating approach is fundamentally sound and follows accepted practice in the engineering and construction industry, applying reasonable unit rates and costs for materials and labor for development of direct costs. This information is available to use as a basis for this cost effectiveness analysis. The Eichleay Base and Utilities Estimates are attached as BACT Attachment B.

### Estimating Basis

Estimates of Total Capital Investment (TCI), annual costs, potential emission reductions, and the resulting cost effectiveness have been prepared for each of the control technology cases above utilizing selected portions of the Direct Costs developed by the Eichleay study. The general approach and basis of the estimates is as follows:

1. Except for specific substitutions or modifications as listed below, EPA's cost template for VOC incineration systems, as presented in the EPA Control Cost Manual, Section 3.2, Tables 2.8 and 2.9, was used. Typical site specific factors and other required direct costs not covered by the template have been extracted from the Eichleay study and inserted in the template to cover all the scope elements required for installation of controls on fermentation tanks. To ensure that all estimate cases are comparative, the EPA cost template (with EPA cost factors) was used to develop the direct cost of installing the purchased control device for all estimate cases. The control device is taken to include the upstream separator vessel which is used to separate any entrained liquids from the fermentation tank vent stream before it enters the control device.
2. All estimates are based on the general facilities design prepared by Eichleay for the Gallo winery at Livingston, CA. Using this basis, the impact of substituting different control technologies will be examined. It is assumed that the basic scope of ductwork and supports, tank modifications, ancillary systems and site specific costs will be common to all technologies.
3. The Gallo facility consists of 60 red wine fermentation tanks with a combined nominal capacity of 6,850,000 gallons. In the general facilities design as prepared by Eichleay the tanks are grouped into four separate groups of tanks, each group separately manifolded together and ducted to a separate dedicated control device (See Eichleay drawing SK-30892-001 in BACT Attachment E). The tank groupings are designated as:
  - VOC-1           Seventeen (17) 100,000 gallon tanks
  - VOC-2           Twelve (12) 200,000 gallon tanks
  - VOC-3           Ten (10) 100,000 gallon tanks and seven (7) 50,000 gallon tanks

VOC-4 Fourteen (14) 100,000 gallon tanks

4. Control device capacity (per the Eichleay study) is based on a peak vapor rate of 9.75 scfm/1000 gallons of wine fermenting at an 85 °F fermentation temperature. Since the Eichleay study was based solely on using a thermal incinerator as the control device, an additional 23.6 % flow capacity is included in the control device capacity to account for the combustion air which must be added since the vent stream from the tank contains only CO<sub>2</sub>, water and ethanol. Other non-combustion control technologies do not require additional air and may thus be rated at a lower flow capacity. On this basis, the four control devices have been determined to require the following capacities:

5.

<b>Red Fermentation Capture and Control Systems Proposed for Gallo-Livingston Per Eichleay Engineering Study</b>					
VOC Device Number	No. of Tanks	Fermentation Tank Capacity (gallons)	Total Capacity of Red Fermentation Tanks (gallons)	Combustion Control Device Flow Capacity per the Eichleay Study (SCFM)	Non-Combustion Control Device Flow Capacity (SCFM)
VOC-1	17	100,000	1,700,000	16,000	12,900
VOC-2	12	200,000	2,400,000	22,000	17,800
VOC-3	10	100,000	1,350,000	13,000	10,500
	7	50,000			
VOC-4	14	100,000	1,400,000	13,000	10,500
Total	60		6,850,000	64,000	51,700

6. Capacities and costs for control devices for each case were developed based on the capacities of the four VOC systems listed above. Sources for pricing of control devices were as follows:

Recuperative Thermal Oxidizers: EPA Cost Control Manual, Section 3.2, Chapter 2, Equation 2.29

Regenerative Thermal Oxidizers: Vendor quotations obtained by Eichleay Engineering

Carbon Adsorption System: Technical Assessment Document, p.17

Water Scrubbers: STI Study<sup>5</sup>, Table 5

BACT Attachment C presents the developed capacities and estimated purchase prices for the control devices for each estimate case...

<sup>5</sup> Sonoma Technology, Inc., Control Technology Evaluation: Wineries - Fermentation Processes, Control Measures Assessment STI-903340-2429a-CMA, October 21, 2003.

7. Purchased equipment costs for the knock out vessels (common to all estimate cases) have been extracted from the main Eichleay estimate. A purchased material cost of \$148,000 for the knock out vessels was taken from page 15 of Eichleay's main estimate. Sizing criteria is presented in the Eichleay study and the pricing was developed based on Eichleay's in-house estimating data for this type of equipment derived from purchasing experience on previous projects.
8. Direct costs taken from the Eichleay study will be used for estimation of site specific and other costs not covered by the equipment factors in the EPA VOC incineration cost template. These costs include site preparation, ductwork, structural steel pipeway and associated foundations for ductwork support, clean-in-place (CIP) system, expansion of the plant electric utility, modification of fermentation tanks for duct connections, and the instrumentation system for control of tank foam over.
9. Site preparation costs to develop a plot area for the VOC control equipment have been extracted from page 4 of the main Eichleay estimate which the District considers to be typical of the requirements which would be encountered at most existing major wineries. Most wineries are constructed with the tanks located in tight groups with minimal spacing between the tanks, requiring that control devices be installed on the perimeter of the winery, typically undeveloped agricultural land. Extracted costs from the Eichleay include subcontract pricing for demolition of an existing road, installation and compaction of fill, and new pavement to develop a plot space sufficient to install four new control devices with upstream separators and associated piping and ducting. These costs total \$1,254,000 and are based on budgetary subcontract pricing obtained by Eichleay.
10. The total direct cost for ductwork was extracted from the Eichleay study. A material cost of \$1,104,800 and an installation labor cost of \$940,500 for the ductwork has been extracted from pages 16 through 23 of the main Eichleay estimate. California sales tax of 8% and freight charges of 3% were added to the materials cost to arrive at a direct cost of \$2,167,000 for the ductwork. Estimated ductwork quantities are based on Eichleay plan drawing SK-30913-001 and the process flow diagram presented in Eichleay drawing SK-30892-003 (see BACT Attachment E). Unit costs for fabricated stainless steel ductwork were based on a budgetary quotation obtained by Eichleay from Viron International, a ductwork spool fabricator.
11. A material cost of \$1,779,600 and an installation labor cost of \$752,000 for structural steel to support the new ductwork system and associated piping has been extracted from the totals presented on page 8 of the Eichleay base estimate. California sales tax of 8% and freight charges of 3% were added to the materials cost to arrive at a direct cost of \$2,727,000 for the structural steel. Steel design and quantities in this estimate are based on Eichleay plan drawing SK-30913-001 and the steel structure sections presented in Eichleay drawing SK-S12 (see BACT Attachment E). Fabricated steel pricing was based on a quotation obtained by Eichleay from a structural steel fabricator in Bakersfield, CA.
12. Costs for heavy lift equipment including heavy cranes and use of a helicopter operation to set steel structures and ductwork was taken from page 24 of the main Eichleay estimate. Pricing was obtained by Eichleay from a helicopter firm based out of the Fresno Airport.
13. The Eichleay utility estimate developed a total direct cost of \$5,859,000 for both the CIP system and the expansion of the plant electric utility. Eichleay drawing SK-30892-004 provides a piping and instrumentation diagram for the CIP chemicals storage and supply

system. Drawing SK-30892-006 illustrates the CIP spray header installation in the ductwork. Expansion of the electric utility included new 12 kV switchgear and 1500 kVA transformer to supply power from the existing switchyard to the project (see Eichleay drawings 30892-SK-E01 and E02). A direct allocated cost of \$314,000 for the electric utility expansion was extracted from page 8 of the utilities estimate. Total Direct Cost for this item is taken as 391,000 after pro-rating the Contractor's Fee and other unallocated construction expense from the estimate. The balance of the Total Direct Cost (labeled "Field Cost" in the estimate summary sheet) is the direct cost of \$5,468,000 for the CIP system (this figure includes a small amount for expansion of the plant instrument air system also).

14. The direct costs (materials, labor, and subcontracts) to modify the fermentation tanks for installation of new nozzles required for connection of ductwork includes costs for build and teardown of scaffolding in each tank, demolition of existing insulation, machine cutting of each tank, fabrication and installation of new nozzles, and post-weld passivation of the tank. These costs are taken from pages 15 and 16 of the main estimate and total \$487,000.
15. The direct cost for an instrumentation system for control of tank foam over was taken from page 13 of the main Eichleay estimate. The materials cost of \$514,800 for capacitance probes, actuated butterfly valves and switches to be installed on each tank was adjusted to include California sales tax and a 3% freight cost. Installation labor of \$57,600 from page 13 was added to yield a total direct cost for this item of \$629,000. Design basis for the system is presented in Eichleay drawing SK-30892-007 (see BACT Attachment E). Unit material costs are based on budgetary vendor's pricing obtained by Eichleay. Unit labor factors and costs are based on Eichleay's in-house estimating data.
16. The EPA model cost factor for foundations and supports is 8% of purchased equipment cost which in this case is applicable to only the control device and the knock out vessel. It thus does not factor in the costs of foundations for the substantial steel structures required for this project. Therefore, this cost was extracted from the Eichleay study and added as a direct cost in the estimate. Foundation design for the pipeway consists of drilled concrete piers for support of pipeway structures which require a minimal footprint relative to conventional footers and for this reason are the standard approach for support under new steel columns when they are being installed in congested areas in existing industrial facilities. Direct costs (material + labor + subcontract) for concrete pier foundations have been extracted from page 5 of the estimate (\$247,000) which covers drilling, rebar fabrication and setting, forming, pouring and finishing of the drilled piers. Estimated quantities are based on Eichleay plan drawing SK-30913-001 and the steel structure sections presented in Eichleay drawing SK-S12. The unit costs were based on Eichleay's historical experience with subcontract pricing for these items.
17. Construction Expense and Contractor's Fee have been included in the direct costs at 8% and 10 percent of all other direct costs respectively. These percentages reflect those used in the Eichleay study and are typical based on District Staff's experience. For comparison, Peters & Timmerhaus<sup>6</sup> recommend 10% and 7% for the items respectively.

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<sup>6</sup> Peters, Max and Klaus Timmerhaus, Plant Design and Economics for Chemical Engineers, McGraw-Hill, New York, 1968, p. 115.

18. Annual natural gas usage of 67,412 therms was estimated for the Gallo Livingston design by Eichleay (Appendix G of the Eichleay study) based on a 12 week season and 95% thermally efficient RTO's operating 50% of the time with an ethanol concentration of 6,034 ppm for 50% of the time and in hot standby the other 50% with allowance for startups. This natural gas usage will be used as the basis for the cost effectiveness calculations, factored as required for the thermal efficiency basis of the proposed control unit.
19. Long term natural gas price is assumed to be \$8.00 per MMBtu
20. Power consumption for the Gallo facility is estimated by Eichleay at 586 kW (Appendix G of the Eichleay study). Since essentially all this power is consumed by the induced draft fans at the VOC control unit, this power basis will be assumed to be the same for the induced draft fans associated with all control technologies, factored down as required for control units not requiring combustion air.
21. Power consumption will be based on a 120 day crush season and a power cost of \$0.11/kWh.
22. BACT Attachment D presents a tabulation of the utilities and other annual costs for each estimate case as well as the details of the basis and calculations.
23. Escalation has been applied at a rate of 3% per year where applicable.
24. Engineering cost and construction management costs have been included at 15% and 3% of the Total Direct Cost based on the percentages applied in the Eichleay Study. These percentages reflect those used in the Eichleay study and are typical based on District Staff's experience. A value of 15% for engineering is generally less than that recommended by Peters & Timmerhaus<sup>7</sup> who indicate engineering costs typically are in the range of 4-21% of Total Capital Investment with a median value of 13%.
25. Calculated VOC emission reductions will be debited for collateral NO<sub>x</sub> and VOC production from firing of natural gas where applicable based on 1 lb NO<sub>x</sub> = 1 lb VOC. For natural gas, emissions are based on 0.1 lb-NO<sub>x</sub>/MMBtu and 0.0055 lb-VOC/MMBtu per AP-42. Calculated emissions from natural gas firing are presented in the following table:

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<sup>7</sup> Peters, Max and Klaus Timmerhaus, Plant Design and Economics for Chemical Engineers, McGraw-Hill, New York, 1968, p. 115.

<b>Natural Gas Combustion Emissions</b>					
<b>Item</b>	<b>Case 1 Thermal Ox</b>	<b>Case 2 RTO</b>	<b>Case 3 Refrigerated Condenser</b>	<b>Case 4 Water Scrubber</b>	<b>Case 5 Carbon Adsorption</b>
Natural Gas Combustion MMBtu/year	134,820	6,741	0	0	0
Annual NOx Emissions From Natural Gas tons-NOx/year	6.7	0.34	0	0	0
Annual VOC Emissions From Natural Gas tons-VOC/year	0.4	0.02	0	0	0
<b>Total NOx + VOC from Natural Gas tons per year</b>	<b>7.1</b>	<b>0.4</b>	<b>0</b>	<b>0</b>	<b>0</b>

26. Contingency has been included at 10% of the sum of Total Direct Cost and Total Indirect Cost. This value is given as typically 8-20% with an average of 10% by Peters and Timmerhaus<sup>8</sup>
27. Operating labor requirement was estimated one full time operator for all four VOC control systems with 3 shifts per day for the duration of the 120 day crush operation.
28. Maintenance labor requirement was estimated at 80 hours per week for all four control systems during a total of 20 weeks per year.
29. Operating and maintenance labor cost was included at \$19.50/hour and \$33.00 for year 2005 respectively per the Eicheley study and escalated at 4% to 2009.
30. Maintenance materials have been estimated at 3% of TCI. (Peters and Timmerhaus give a typical value of 6% for general process industries).
31. Total Capital Investment has been annualized based on a 10 year equipment life and a 10% opportunity cost for capital (CRF = 0.163).
32. Calculation of potential emissions from fermentation is based upon the red wine emission factor of 6.2 lb-ethanol per 1000 gallons of red wine and upon the maximum potential wine production capacity for the fermentation tanks. Maximum annual throughput capacity is calculated as follows:

<sup>8</sup> Peters, Max and Klaus D. Timmerhaus, Plant Design and Economics for Chemical Engineers, McGraw-Hill, New York, 1968, p.116.

Red crush season duration of 120 days

Five day batch processing period for red wine fermentation; maximum number of batches per season =  $120 \text{ days/season} \div 5 \text{ days/ batch} = 24 \text{ batches per season}$

Total red wine fermenter volume in this estimate = 6,850,000 gallons

Maximum fill for red wine fermenter (due to foaming/expansion) = 80%

Maximum wine production capacity = working capacity of fermenters x # batches per season =  $6,850,000 \times 80\% \times 24 = 131,520,000 \text{ gallons per year}$

VOC Emissions =  $131,520,000 \text{ gallons/year} \times 6.2 \text{ lb-VOC/1000 gallons}$

=  $815,400 \text{ lb-VOC/year} = 407.7 \text{ tons-VOC/year}$

### **Cost Effectiveness Estimates**

Table 1 presents the development of Total Capital Investment (TCI) for all capture and control cases based on the general facilities design prepared by Eichleay (including site specific costs and CIP) and Table 2 presents the associated annual costs, emission reductions, and cost effectiveness for each capture and control case.

## Total Capital Investment for VOC Control of Red Wine Fermentation

	Case 1 Thermal Ox	Case 2 RTO	Case 3 Refrigerated Condenser	Case 4 Water Scrub	Case 5 Carbon Adsorption
<b>Direct Costs</b>					
<b>Purchased Equipment Costs</b>					
Control Device	\$745,000	\$1,854,000	\$3,003,000	\$396,000	\$1,667,000
Knock Out Vessels	\$148,000	\$148,000	\$148,000	\$148,000	\$148,000
Subtotal Equipment (A)	\$893,000	\$2,002,000	\$3,151,000	\$544,000	\$1,815,000
Instrumentation (0.10 x A)	\$89,000	\$200,000	\$315,000	\$54,000	\$182,000
Sales Tax (0.08 x A)	\$71,000	\$160,000	\$252,000	\$44,000	\$145,000
Freight (0.05 x A)	<u>\$45,000</u>	<u>\$100,000</u>	<u>\$158,000</u>	<u>\$27,000</u>	<u>\$91,000</u>
Purchased Equipment Cost (PEC)	\$1,098,000	\$2,462,000	\$3,876,000	\$669,000	\$2,233,000
<b>Direct Installation Costs for Purchased Equipment</b>					
Foundations and Supports	\$88,000	\$197,000	\$310,000	\$54,000	\$179,000
Handling & Erection	\$154,000	\$345,000	\$543,000	\$94,000	\$313,000
Electrical	\$44,000	\$98,000	\$155,000	\$27,000	\$89,000
Piping	\$22,000	\$49,000	\$78,000	\$13,000	\$45,000
<b>Direct Costs Not Included Above</b>					
Structural Steel Pipeway	\$2,727,000	\$2,727,000	\$2,727,000	\$2,727,000	\$2,727,000
Ductwork	\$2,167,000	\$2,167,000	\$2,167,000	\$971,000	\$971,000
Pipeway Foundations	\$247,000	\$247,000	\$247,000	\$247,000	\$247,000
Site Prep	\$1,254,000	\$1,254,000	\$1,254,000	\$1,254,000	\$1,254,000
CIP System	\$5,468,000	\$5,468,000	\$5,468,000	\$5,468,000	\$5,468,000
Electrical Utility	\$391,000	\$391,000	\$391,000	\$391,000	\$391,000
Tank Modifications	\$487,000	\$487,000	\$487,000	\$487,000	\$487,000
Foam Over Control System	\$629,000	\$629,000	\$629,000	\$629,000	\$629,000
Heavy Lift Equipment	<u>\$1,192,000</u>	<u>\$1,192,000</u>	<u>\$1,192,000</u>	<u>\$1,192,000</u>	<u>\$1,192,000</u>
Subtotal	\$15,968,000	\$17,713,000	\$19,524,000	\$14,223,000	\$16,225,000
Construction Expense	\$1,277,000	\$1,417,040	\$1,561,920	\$1,137,840	\$1,298,000
Contractor's Fee	<u>\$1,597,000</u>	<u>\$1,771,300</u>	<u>\$1,952,400</u>	<u>\$1,422,300</u>	<u>\$1,622,500</u>
<b>Total Direct Costs</b>	\$18,842,000	\$20,901,340	\$23,038,320	\$16,783,140	\$19,145,500
<b>Indirect Costs</b>					
Engineering	\$2,826,000	\$3,135,000	\$3,456,000	\$2,517,000	\$2,872,000
Construction Management Expense	\$565,000	\$627,000	\$691,000	\$503,000	\$574,000
Start Up	\$22,000	\$49,000	\$78,000	\$13,000	\$45,000
Performance Test	\$11,000	\$25,000	\$39,000	\$7,000	\$22,000
Contingencies	<u>\$2,227,000</u>	<u>\$2,474,000</u>	<u>\$2,730,000</u>	<u>\$1,982,000</u>	<u>\$2,266,000</u>
<b>Total Indirect Costs</b>	\$5,651,000	\$6,310,000	\$6,994,000	\$5,022,000	\$5,779,000
<b>Total Capital Investment</b>	<b>\$21,619,000</b>	<b>\$24,023,000</b>	<b>\$26,518,000</b>	<b>\$19,245,000</b>	<b>\$22,004,000</b>

## Annual Costs for VOC Control of Red Wine Fermentation

Control Device	Case 1 Thermal Ox	Case 2 RTO	Case 3 Refrigerated Cond.	Case 4 Water Scrubber	Case 5 Carbon Adsorption
Total Capital Investment	\$21,619,000	\$24,023,000	\$26,518,000	\$19,245,000	\$22,004,000
Direct Annual Costs					
Labor & Materials					
Operating Labor (.5 hr/shift-unit @ \$22.81/hour)	\$65,700	\$65,700	\$65,700	\$65,700	\$65,700
Supervisor (15% of operator cost)	\$9,900	\$9,900	\$9,900	\$9,900	\$9,900
Operating Materials (15% of total maintenance cost)	\$104,700	\$112,500	\$123,700	\$91,000	\$103,400
Maintenance Labor (0.5 hr/shift-unit @ \$38.60/hour)	\$49,400	\$29,200	\$29,200	\$29,200	\$29,200
Maintenance Materials (3% of TCI)	\$648,600	\$720,700	\$795,500	\$577,400	\$660,100
Utilities	\$1,263,600	\$239,500	\$399,600	\$2,194,400	\$407,200
<b>Total Direct Annual Cost</b>	<b>\$2,141,900</b>	<b>\$1,177,500</b>	<b>\$1,423,600</b>	<b>\$2,967,600</b>	<b>\$1,275,500</b>
Indirect Annual Costs					
Overhead (60% of labor & Mat'ls)	\$527,000	\$562,800	\$614,400	\$463,900	\$521,000
Administrative Charges (2% of TCI)	\$432,400	\$480,500	\$530,400	\$384,900	\$440,100
Property Taxes (2% TCI)	\$432,400	\$480,500	\$530,400	\$384,900	\$440,100
Insurance (1% TCI)	\$216,200	\$240,200	\$265,200	\$192,500	\$220,000
Capital Recovery (CRF = 0.163)	<u>\$3,523,900</u>	<u>\$3,915,700</u>	<u>\$4,322,400</u>	<u>\$3,136,900</u>	<u>\$3,586,700</u>
<b>Total Indirect Annual Cost</b>	<b>\$5,131,900</b>	<b>\$5,679,700</b>	<b>\$6,262,800</b>	<b>\$4,563,100</b>	<b>\$5,207,900</b>
<b>Total Annualized Cost</b>	<b>\$7,273,800</b>	<b>\$6,857,200</b>	<b>\$7,686,400</b>	<b>\$7,530,700</b>	<b>\$6,483,400</b>
Emission Reductions					
Uncontrolled Emissions tpy	407.70	407.70	407.70	407.70	407.70
Collection & Control Efficiency	88%	88%	81%	81%	86%
Annual Emission Reduction tpy	358.78	358.78	330.24	330.24	350.62
Natural Gas Emissions tpy	7.11	0.36	0.00	0.00	0.00
Net Emission Reduction tpy	351.67	358.42	330.24	330.24	350.62
<b>Cost Effectiveness \$/ton</b>	<b>\$20,700</b>	<b>\$19,100</b>	<b>\$23,300</b>	<b>\$22,800</b>	<b>\$18,500</b>

## Step 5 – Select BACT

As estimated in Tables 1 and 2, the cost effectiveness of all technologies evaluated lie between \$18,500 and \$23,300 per ton. As discussed previously, since the evaluation basis for this determination was the control of emissions from large red wine fermenters it may be inferred that the calculated values are significantly lower than that which would be evaluated for white wine fermenters due to the lower emission factor and lower potential wine production rate for white wine fermentation tanks. In addition, since this study evaluated emission controls on what is currently the largest red wine fermentation plant in the world, the results are applicable to fermentation tanks of all sizes due to 1) wineries with smaller tanks will be less cost effective due to increasing redundancy and/or loss of economies of scale and 2) proposed new wineries with a capacity equal to or exceeding Gallo-Livingston would be less cost effective since, due to market considerations which are currently driving the industry toward smaller fermentation batches of more premium wine, a new fermentation facility would most likely be configured with a larger number of smaller tanks and a corresponding greater number of VOC control systems per gallon of capacity. Therefore, the evaluated cost effectiveness values above represent the low end of the range of cost effectiveness and any direct evaluation of the O'Neill facility is expected to yield a value which is significantly higher than those above.

The lowest evaluated cost effectiveness of \$18,500 per ton exceeds the District's cost effectiveness threshold of \$17,500 per ton for VOC. Therefore, since all Technologically Feasible BACT options have been demonstrated to not be cost effective, the fermentation tanks for O'Neill Beverages will be permitted for operation with Achieved-in-Practice BACT (operation with open top tank and a maximum average fermentation temperature of 95 °F).

### Attachments:

BACT Attachment A:	Equipment List for Permit Units
BACT Attachment B:	Eichleay Estimates for Fermentation Controls at Gallo Livingston
BACT Attachment C:	Sizing and Purchase Costs for Control Devices
BACT Attachment D:	Utilities and other Annual Costs
BACT Attachment E:	Eichleay Drawings

**BACT 5.4.14 Attachment A**

**Eichleay Estimates for Fermentation Controls at Gallo  
Livingston**



Eichley Engineers Inc. of California

**ESTIMATE SUMMARY SHEET**

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

**PRELIMINARY ESTIMATE**

Checked By: R.H.

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	TOTAL COSTS				GRAND
		RTO-1	RTO-2	RTO-3	RTO-4	TOTAL
	<b>SUMMARY</b>					
2.00	Site Construction	\$1,253,680	\$5,450	\$5,450	\$5,450	\$1,270,030
3.00	Concrete	\$208,450	\$81,500	\$85,500	\$69,500	\$444,950
4.00	Masonry					\$0
5.00	Metals	\$1,499,010	\$395,028	\$381,670	\$275,846	\$2,531,554
6.00	Wood & Plastics					\$0
7.00	Thermal & Moisture Protection					\$0
8.00	Door & Windows					\$0
9.00	Finishes					\$0
10.00	Specialties	\$8,620	\$0	\$0	\$0	\$8,620
11.00	Equipment					\$0
12.00	Furnishings					\$0
13.00	Special Construction					\$0
14.00	Conveying Systems					\$0
15.00	Mechanical HVAC & Plumbing					\$0
16.00	Electrical	\$116,439	\$28,212	\$27,326	\$32,226	\$204,203
17.00	Instruments & Controls	\$340,195	\$199,195	\$199,195	\$199,195	\$937,780
18.00	Process Piping & Equipment	\$1,553,959	\$1,572,913	\$1,438,695	\$1,361,843	\$5,927,410
	<b>Sub Total</b>	<b>\$4,980,353</b>	<b>\$2,282,298</b>	<b>\$2,117,836</b>	<b>\$1,944,060</b>	<b>\$11,324,547</b>
	Tax & Freight	282,779	125,680	113,112	106,828	\$628,398
	General Conditions	\$421,051	\$192,838	\$178,476	\$164,071	\$956,238
	General Contractor Mark-Up	\$478,373	\$220,042	\$204,824	\$187,479	\$1,090,818
	<b>Field Costs - Sub Total</b>	<b>\$6,162,556</b>	<b>\$2,820,857</b>	<b>\$2,614,348</b>	<b>\$2,402,438</b>	<b>\$13,999,999</b>
	Design Fee Allowance	924,383	423,099	392,152	360,366	\$2,100,000
	Construction Management Allowance	\$184,877	\$84,620	\$78,430	\$72,073	\$420,000
	Plan Check & Permit Fee Allowance	\$21,843	\$9,708	\$8,737	\$8,252	\$48,539
	Third Party Inspection Allowance	\$16,382	\$7,281	\$6,553	\$6,189	\$36,404
	Escalation	\$281,415	\$131,806	\$125,029	\$119,047	\$657,297
	Project Contingency	\$2,070,463	\$920,206	\$828,185	\$782,175	\$4,601,028
	<b>Sub Total</b>	<b>\$9,661,919</b>	<b>\$4,397,375</b>	<b>\$4,053,435</b>	<b>\$3,750,538</b>	<b>\$21,863,267</b>
	Owners Costs	\$92,438	\$42,310	\$39,215	\$36,037	\$210,000
	Round Off	-\$357	\$315	\$350	\$425	\$733
	<b>GRAND TOTAL</b>	<b>\$9,754,000</b>	<b>\$4,440,000</b>	<b>\$4,093,000</b>	<b>\$3,787,000</b>	<b>\$22,074,000</b>

Prepared By:

Date:

*Paul H. M...*  
6/24/05

Approved By:

Date:

*R.V. Medgar*  
6/24/05



Eichleay Engineers Inc. of California

**ESTIMATE SUMMARY SHEET**

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

**PRELIMINARY ESTIMATE**

Checked By: R.H.

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

Rev. 2 Date: 6/24/05

**W/O ESCALATION & OWNERS COSTS**

CODE	ITEM DESCRIPTION	TOTAL COSTS				GRAND
		RTO-1	RTO-2	RTO-3	RTO-4	TOTAL
<b>SUMMARY</b>						
2.00	Site Construction	\$1,253,680	\$5,450	\$5,450	\$5,450	\$1,270,030
3.00	Concrete	\$208,450	\$81,500	\$85,500	\$69,500	\$444,950
4.00	Masonry					\$0
5.00	Metals	\$1,499,010	\$395,028	\$361,670	\$275,846	\$2,531,554
6.00	Wood & Plastics					\$0
7.00	Thermal & Moisture Protection					\$0
8.00	Door & Windows					\$0
9.00	Finishes					\$0
10.00	Specialties	\$8,620	\$0	\$0	\$0	\$8,620
11.00	Equipment					\$0
12.00	Furnishings					\$0
13.00	Special Construction					\$0
14.00	Conveying Systems					\$0
15.00	Mechanical HVAC & Plumbing					\$0
16.00	Electrical	\$116,439	\$28,212	\$27,326	\$32,226	\$204,203
17.00	Instruments & Controls	\$340,195	\$199,195	\$199,195	\$199,195	\$937,780
18.00	Process Piping & Equipment	\$1,553,959	\$1,572,913	\$1,438,695	\$1,361,843	\$5,927,410
	<b>Sub Total</b>	<b>\$4,980,353</b>	<b>\$2,282,288</b>	<b>\$2,117,826</b>	<b>\$1,944,060</b>	<b>\$11,324,547</b>
	Tax & Freight	282,779	125,680	113,112	106,828	\$628,398
	General Conditions	\$421,051	\$192,638	\$178,476	\$164,071	\$956,238
	General Contractor Mark-Up	\$478,373	\$220,042	\$204,924	\$187,479	\$1,090,818
	<b>Field Costs - Sub Total</b>	<b>\$6,162,556</b>	<b>\$2,820,657</b>	<b>\$2,614,348</b>	<b>\$2,402,438</b>	<b>\$13,999,999</b>
	Design Fee Allowance	924,383	423,099	392,152	360,366	\$2,100,000
	Construction Management Allowance	\$184,877	\$84,620	\$78,430	\$72,073	\$420,000
	Plan Check & Permit Fee Allowance	\$21,843	\$9,708	\$8,737	\$8,252	\$48,539
	Third Party Inspection Allowance	\$16,382	\$7,281	\$6,553	\$6,189	\$36,404
	Escalation					\$0
	Project Contingency	\$2,070,463	\$920,208	\$828,185	\$782,175	\$4,601,028
	<b>Sub Total</b>	<b>\$9,380,504</b>	<b>\$4,265,569</b>	<b>\$3,928,405</b>	<b>\$3,631,491</b>	<b>\$21,205,969</b>
	Owners Costs					\$0
	Round Off	\$31				\$31
	<b>GRAND TOTAL</b>	<b>\$9,380,536</b>	<b>\$4,265,569</b>	<b>\$3,928,405</b>	<b>\$3,631,491</b>	<b>\$21,206,000</b>

Prepared By:

*P.H.M.*

Date:

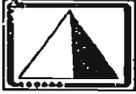
6/24/05

Approved By:

*R.W. Wedger*

Date:

6/24/05



Eichleay Engineers Inc. of California

**ESTIMATE SUMMARY SHEET**

Client Name: Wine Institute

Estimated By: P.H.M.

Job Number: 30913

**PRELIMINARY ESTIMATE**

Checked By: R.H.

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	W/O Escalation & Owners Costs				TOTAL
		TOTAL MHRS	TOTAL COSTS			
			LABOR	MAT'L	SUBCON.	
<b>SUMMARY</b>						
2.00	Site Construction		\$0	\$0	\$1,270,030	\$1,270,030
3.00	Concrete		\$0	\$0	\$444,950	\$444,950
4.00	Masonry		\$0	\$0	\$0	\$0
5.00	Metals		\$711,959	\$1,779,595	\$40,000	\$2,531,554
6.00	Wood & Plastics		\$0	\$0	\$0	\$0
7.00	Thermal & Moisture Protection		\$0	\$0	\$0	\$0
8.00	Door & Windows		\$0	\$0	\$0	\$0
9.00	Finishes		\$0	\$0	\$0	\$0
10.00	Specialties		\$260	\$0	\$8,360	\$8,620
11.00	Equipment		\$0	\$0	\$0	\$0
12.00	Furnishings		\$0	\$0	\$0	\$0
13.00	Special Construction		\$0	\$0	\$0	\$0
14.00	Conveying Systems		\$0	\$0	\$0	\$0
15.00	Mechanical HVAC & Plumbing		\$0	\$0	\$0	\$0
16.00	Electrical		\$65,016	\$85,787	\$53,400	\$204,203
17.00	Instruments & Controls		\$140,550	\$672,230	\$125,000	\$937,780
18.00	Process Piping & Equipment		\$1,555,068	\$3,175,093	\$1,197,250	\$5,927,411
	<b>Sub Total</b>		<b>\$2,472,653</b>	<b>\$6,712,705</b>	<b>\$3,138,990</b>	<b>\$11,324,348</b>
	Tax & Freight (11%)					\$628,398
	General Conditions (8%)					\$956,236
	General Contractor Mark-Up (10%)					\$1,090,818
	<b>Field Costs - Sub Total</b>					<b>\$13,999,999</b>
	Design Fee Allowance (15%)					\$2,100,000
	Construction Management Allowance (3%)					\$420,000
	Plan Check & Permit Fee Allowance (2%)					\$48,539
	Third Party Inspection Allowance (1.5%)					\$36,404
	Escalation					
	Project Contingency					\$4,601,028
	<b>Sub Total</b>					<b>\$21,208,970</b>
	Owners Costs					\$0
	Round Off					\$30
	<b>GRAND TOTAL</b>					<b>\$21,208,000</b>

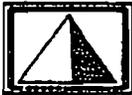
Prepared By:

*[Signature]*  
Date: 6/24/05

Approved By:

*[Signature]*  
Date: 6/24/05





**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

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CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS				TOTAL COSTS			TOTAL
						\$ / Hr	MATL	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	<b>030 - Concrete</b>												
	VOC -1 Duct sections												
1	Install drilled piers (20) rack #1	20	ea					1,000.00	1,000.00			20,000	20,000
1	Install drilled piers (20) rack #2	20	ea					1,000.00	1,000.00			20,000	20,000
1	Install drilled piers (42) for main rack inside plant	42	ea					1,500.00	1,500.00			63,000	63,000
1	Install drilled piers (46) for main rack outside plant	46	ea					700.00	700.00			32,200	32,200
1	Install drilled piers (32) for main rack by VOC's	32	ea					700.00	700.00			22,400	22,400
1	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -2 Duct sections												
2	Install drilled piers (16) rack #3	16	ea					1,000.00	1,000.00			16,000	16,000
2	Install drilled piers (18) rack #4	18	ea					1,000.00	1,000.00			16,000	16,000
2	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -3 Duct sections												
3	Install drilled piers (16) rack #6	16	ea					1,000.00	1,000.00			16,000	16,000
3	Install drilled piers (20) rack #7	20	ea					1,000.00	1,000.00			20,000	20,000
3	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	VOC -4 Duct sections												
4	Install drilled piers (0) rack #4		ea					1,000.00	1,000.00				
4	Install drilled piers (20) rack #5	20	ea					1,000.00	1,000.00			20,000	20,000
4	Install foundation for VOC-1 & tank	110	cy					450.00	450.00			49,500	49,500
	Allowance for building pad	3	cy					450.00	450.00			1,350	1,350
	<b>TOTAL - Concrete</b>											<b>444,950</b>	<b>444,950</b>



**Eichle**  
Engineers Inc. of CA.

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MATL	SUBCON.	TOTAL	LABOR	MATL		SUBCON.
	<b>050 - Metals</b>												
	<b>VOC -1 Duct Section</b>												
1	Fab & Install main duct rack frames ( inside unit - 45 ft)	21	ea	20	420	65.00	6,500.00		7,800.00	27,300	136,500		163,800
1	Fab & Install main duct rack top connection members	640	ft	0.75	480	65.00	45.00		93.75	31,200	28,800		60,000
1	Fab & Install main duct rack bottom connection members	640	ft	0.75	480	65.00	45.00		93.75	31,200	28,800		60,000
1	Fab & Install main duct rack top cross bracing	80	ea	6	480	65.00	690.00		1,080.00	31,200	55,200		86,400
1	Fab & Install main duct rack lower cross bracing	40	ea	6	240	65.00	950.00		1,340.00	15,600	38,000		53,600
1	Fab & Install main duct rack frames ( outside unit - 25 ft)	23	ea	10	230	65.00	4,420.00		5,070.00	14,950	101,660		116,610
1	Fab & Install main duct rack top connection members	680	ft	0.5	340	65.00	45.00		77.50	22,100	30,600		52,700
1	Fab & Install main duct rack top cross bracing	92	ea	4	368	65.00	600.00		860.00	23,920	55,200		79,120
1	Fab & Install main duct rack lower cross bracing	22	ea	4	88	65.00	700.00		960.00	5,720	15,400		21,120
1	Fab & Install main duct rack frames ( VOC area )	16	ea	4	64	65.00	1,430.00		1,690.00	4,160	22,880		27,040
1	3' wide grating on main rack	2700	sf	0.15	405	65.00	19.00		28.75	26,325	51,300		77,625
1	handrails	1800	lf	0.3	540	65.00	75.00		94.50	35,100	135,000		170,100
1	Allowance for grating from main rack to existing catwalks	1	lot	50	50	65.00	5,000.00		8,250.00	3,250	5,000		8,250
1	Allowance for caged ladders	200	ft	0.5	100	65.00	50.00		82.50	6,500	10,000		16,500
1	15 x 8 towers	5	ea	80	400	65.00	14,000.00		19,200.00	26,000	70,000		96,000
1	15' top level connection beams	8	ea	8	64	65.00	550.00		1,070.00	4,160	4,400		8,560
1	cross bracing on top open sections	4	ea	8	32	65.00	300.00		820.00	2,080	1,200		3,280
1	15 x 15 towers	5	ea	80	400	65.00	18,000.00		23,200.00	26,000	90,000		116,000
1	15' top level connection beams	8	ea	8	64	65.00	550.00		1,070.00	4,160	4,400		8,560
1	cross bracing on top open sections	4	ea	8	32	65.00	300.00		820.00	2,080	1,200		3,280
1	3' wide grating on walkway 1 & 2	810	sf	0.15	121.5	65.00	19.00		28.75	7,898	15,390		23,288
1	3' wide grating to tanks	510	sf	0.15	76.5	65.00	19.00		28.75	4,973	9,690		14,663
1	handrails	920	lf	0.3	276	65.00	75.00		94.50	17,940	69,000		86,940
1	grating to existing catwalks	120	sf	0.15	18	65.00	19.00		28.75	1,170	2,280		3,450



**Eichleay**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

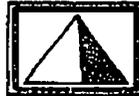
**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
VOC-2 Duct Section													
2	15 x 15 towers	4	ea	20	80	65.00	20,000.00		21,300.00	5,200	80,000		85,200
2	20' top level connection beams	6	ea	2	12	65.00	700.00		830.00	780	4,200		4,980
2	cross bracing on top open sections	3	ea	2	6	65.00	400.00		530.00	390	1,200		1,590
2	15 x 15 towers	3	ea	20	60	65.00	20,000.00		21,300.00	3,900	60,000		63,900
2	15' top level connection beams	4	ea	2	8	65.00	550.00		680.00	520	2,200		2,720
2	cross bracing on top open sections	2	ea	2	4	65.00	300.00		430.00	260	600		860
2	15 x 20 towers - shared vertical colums	2	ea	20	40	65.00	20,000.00		21,300.00	2,600	40,000		42,600
2	15 x 15 tower	1	ea	20	20	65.00	10,000.00		11,300.00	1,300	10,000		11,300
2	3' wide grating on walkway 3, 4' wide on walkway 4	945	sf	0.15	141.75	65.00	19.00		28.75	9,214	17,955		27,169
2	3' wide grating to tanks	360	sf	0.15	54	65.00	19.00		28.75	3,510	6,840		10,350
2	handrails	820	lf	0.3	246	65.00	75.00		94.50	15,990	61,500		77,490
2	grating to existing catwalks	165	sf	0.15	24.75	65.00	19.00		28.75	1,609	3,135		4,744
VOC-3 Duct Section													
3	20 x 8 towers	3	ea	20	60	65.00	15,000.00		16,300.00	3,900	45,000		48,900
3	20' top level connection beams	6	ea	2	12	65.00	700.00		830.00	780	4,200		4,980
3	cross bracing on top open sections	3	ea	2	6	65.00	400.00		530.00	390	1,200		1,590
3	15 x 8 towers	1	ea	20	20	65.00	14,000.00		15,300.00	1,300	14,000		15,300
3	15 x 15 towers	5	ea	20	100	65.00	18,000.00		19,300.00	6,500	90,000		96,500
3	15' top level connection beams	8	ea	2	16	65.00	550.00		680.00	1,040	4,400		5,440
3	cross bracing on top open sections	4	ea	2	8	65.00	300.00		430.00	520	1,200		1,720
3	3' wide grating on walkway 6 & 7	810	sf	0.15	121.5	65.00	19.00		28.75	7,898	15,390		23,288
3	3' wide grating to tanks	510	sf	0.15	76.5	65.00	19.00		28.75	4,973	9,690		14,663
3	handrails	920	lf	0.3	276	65.00	75.00		94.50	17,940	69,000		86,940
3	grating to existing catwalks	60	sf	0.15	9	65.00	19.00		28.75	585	1,140		1,725



**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$/ Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
	VOC-4 Duct Section												
4	15 x 15 towers	5	ea	20	100	65.00	18,000.00		19,300.00	6,500	90,000		96,500
4	15' top level connection beams	8	ea	2	16	65.00	550.00		680.00	1,040	4,400		5,440
4	cross bracing on top open sections	4	ea	2	8	65.00	300.00		430.00	520	1,200		1,720
4	shared end section with voc-2	1	ea	40	40	65.00	10,000.00		12,600.00	2,600	10,000		12,600
4	3' wide grating on walkway 7	405	sf	0.15	60.75	65.00	19.00		28.75	3,949	7,695		11,644
4	3' wide grating to tanks	450	sf	0.15	67.5	65.00	19.00		28.75	4,388	8,550		12,938
4	handrails	840	lf	0.3	252	65.00	75.00		94.50	16,380	63,000		79,380
ALL	Allowance for additional supports & grating	1	lot	500	500	65.00	70,000.00		102,500	32,500	70,000		102,500
1	Crane to install main rack outside plant area	3	wks					2,000.00	2,000.00			6,000	6,000
1	( 40 ton)	1	lot	120	120	75.00			9,000.00	9,000			9,000
1	Allowance for small cranes to position steel (3)	6	mo	160	960	75.00		2,000.00	14,000.00	72,000		12,000	84,000
2	Allowance for small cranes to position steel (2)	2	mo	160	320	75.00		2,000.00	14,000.00	24,000		4,000	28,000
3	Allowance for small cranes to position steel (2)	2	mo	160	320	75.00		2,000.00	14,000.00	24,000		4,000	28,000
4	Allowance for small cranes to position steel (2)	2	mo	160	320	75.00		2,000.00	14,000.00	24,000		4,000	28,000
ALL	allowance for overtime to build structures to work around helicopter usage	1	lot	1000	1000	25.00			25,000.00	25,000			25,000
ALL	Allowance to touch up paint	1	lot					10,000.00	10,000.00			10,000	10,000
	<b>TOTAL - Metals</b>				11255					711,959	1,779,595	40,000	2,531,554





**Eichl**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHR	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
	016 - Electrical												
	POWER DISTRIBUTION												
	VOC -1												
1	DISCONNECT SWITCH FUSABLE, 400A, 600V, 3PH, 3W	1	EA	10	10	75.00	2,025.00		2,775.00	750	2,025		2,775
1	#600 MCM CONDUCTOR	1.2	CLF	6.154	7	75.00	475.00		936.55	554	570		1,124
1	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
1	3" RIGID ALUMINUM	40	LF	0.18	7	75.00	9.45		22.95	540	378		918
1	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
1	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
1	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
1	FUSE 400A	3	EA	0.333	1	75.00	130.00		154.98	75	390		465
1	3000A main switchboard	1	EA	28.57	29	75.00	4,675.00		6,817.75	2,143	4,675		6,818
1	3000A 600V CIRCUIT BREAKER	1	EA	36.36	36	75.00	24,300.00		27,027.00	2,727	24,300		27,027
1	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	3	3	75.00	3,100.00		3,325.00	225	3,100		3,325
1	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,766	7,490		9,257
1	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500
	VOC -2												
2	DISCONNECT SWITCH FUSABLE, 600A, 600V, 3PH, 3W	1	EA	16	16	75.00	3,000.00		4,200.00	1,200	3,000		4,200
2	#600 MCM CONDUCTOR	2.4	CLF	7.3	18	75.00	585.00		1,132.50	1,314	1,404		2,718
2	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
2	3" RIGID ALUMINUM	80	LF	0.18	14	75.00	9.45		22.95	1,080	756		1,836
2	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
2	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
2	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
2	FUSE 400A	3	EA	0.333	1	75.00	150.00		174.98	75	450		525
2	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	5	5	75.00	3,775.00		4,150.00	375	3,775		4,150
2	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,172	2,280		3,452
2	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500



**Eichl**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

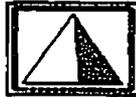
Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$/Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	VOC -3												
3	DISCONNECT SWITCH FUSABLE, 400A, 600V, 3PH, 3W	1	EA	10	10	75.00	2,025.00		2,775.00	750	2,025		2,775
3	#600 MCM CONDUCTOR	3.6	CLF	6.154	22	75.00	475.00		936.55	1,662	1,710		3,372
3	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
3	3" RIGID ALUMINUM	120	LF	0.18	22	75.00	9.45		22.95	1,620	1,134		2,754
3	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
3	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
3	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
3	FUSE 400A	3	EA	0.333	1	75.00	130.00		154.98	75	390		465
3	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	3	3	75.00	3,100.00		3,325.00	225	3,100		3,325
3	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,230	2,074		3,304
3	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500
	VOC -4												
4	DISCONNECT SWITCH FUSABLE, 400A, 600V, 3PH, 3W	1	EA	10	10	75.00	2,025.00		2,775.00	750	2,025		2,775
4	#600 MCM CONDUCTOR	6	CLF	6.154	37	75.00	475.00		936.55	2,769	2,850		5,619
4	#2 GROUND	5	CLF	1.778	9	75.00	47.00		180.35	667	235		902
4	3" RIGID ALUMINUM	200	LF	0.18	36	75.00	9.45		22.95	2,700	1,890		4,590
4	3" IN-LINE PULL FITTINGS	2	EA	2.7	5	75.00	415.00		617.50	405	830		1,235
4	16X16X6 PULL BOX	1	EA	6.15	6	75.00	810.00		1,271.25	461	810		1,271
4	3"90-DEGREE RGS,PVC COATED	2	EA	1.9	4	75.00	69.00		211.50	285	138		423
4	FUSE 400A	3	EA	0.333	1	75.00	130.00		154.98	75	390		465
4	BUS CIRCUIT BREAKER 400A 480V 3PH	1	EA	3	3	75.00	3,100.00		3,325.00	225	3,100		3,325
4	MISC SUPPORTS, FITTINGS, TERMINATIONS	1	LOT							1,667	2,454		4,121
4	CHECKOUT AND TESTING	1	LOT	100	100	75.00			7,500.00	7,500			7,500





**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 8/24/05

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CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS			TOTAL COSTS			TOTAL	
						\$ / Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L		SUBCON.
	<b>017 - Instruments &amp; Controls</b>												
ALL	Ethanol Analyzer (at RTO)	4	ea	16	64	75.00	20,000.00		21,200.00	4,800	80,000		84,800
ALL	Capactance probe / transmitter	60	ea	4	240	75.00	1,200.00		1,500.00	18,000	72,000		90,000
ALL	Actuated BF vent valve - 12" fermenter	60	ea	4	240	75.00	6,500.00		6,800.00	18,000	390,000		408,000
ALL	Actuated BF vent valve - 36" KO pots	4	ea	8	32	75.00	10,000.00		10,600.00	2,400	40,000		42,400
ALL	Local hand switch for BF closing	64	ea	4	256	75.00	200.00		500.00	19,200	12,800		32,000
ALL	Relief Vent - KO pots	4	ea	4	16	75.00	3,000.00		3,300.00	1,200	12,000		13,200
	Level transmitter & Indicator					75.00	1,200.00		1,200.00				
ALL	High level switch	4	ea	4	16	75.00	750.00		1,050.00	1,200	3,000		4,200
ALL	Low level switch	4	ea	4	16	75.00	750.00		1,050.00	1,200	3,000		4,200
ALL	Level gauge	4	ea	2	8	75.00	1,000.00		1,150.00	600	4,000		4,600
ALL	Pressure gauge	16	ea	1	16	75.00	300.00		375.00	1,200	4,800		6,000
ALL	Pressure transmitter	4	ea	4	16	75.00	1,500.00		1,800.00	1,200	6,000		7,200
ALL	Temperature gauge w/ TW	16	ea	4	64	75.00	300.00		600.00	4,800	4,800		9,600
1	Temperature transmitter, RTD, TW	2	ea	4	8	75.00	1,200.00		1,500.00	600	2,400		3,000
	Relief valves						300.00		300.00				
	Pressure regulator - liquid						300.00		300.00				
	Pressure regulator - steam						1,500.00		1,500.00				
ALL	On- off control valve Stations	4		4	16	75.00	1,000.00		1,300.00	1,200	4,000		5,200
ALL	Conduit, factored 20' per tank	1200	ft	0.2	240	75.00	8.00		23.00	18,000	9,600		27,600
ALL	Conduit, factored 300' per RTO	1200	ft	0.2	240	75.00	8.00		23.00	18,000	9,600		27,600
ALL	Wire, factored 50' per instrument/valve	7300	ft	0.02	146	75.00	0.10		1.60	10,950	730		11,680
ALL	Allowance for air tubing	1	lot	240	240	75.00	500.00		18,500.00	18,000	500		18,500





**Eichle**  
Engineers Inc. of CA

Client Name: Wine Institute

Job Number: 30913

Job Title: Fermenter VOC Emissions - Livingston West Side Fermenters

**PRELIMINARY ESTIMATE**

Estimated By: P.H.M.

Checked By: R.H.

Rev. 2 Date: 6/24/05

CODE	ITEM DESCRIPTION	QUANT	UNIT	MHR/ UNIT	TOTAL MHRS	UNIT COSTS				TOTAL COSTS			TOTAL
						\$/Hr	MAT'L	SUBCON.	TOTAL	LABOR	MAT'L	SUBCON.	
	<b>018 - Process Piping &amp; Equipment</b>												
	<b>VOC Control Equipment</b>												
1	VOC-1 16,000 scfm RTO unit	1	ea	200	200	65.00	416,000		429,000	13,000	416,000		429,000
2	VOC-2 22,000 scfm RTO unit	1	ea	250	250	65.00	503,000		519,250	16,250	503,000		519,250
3	VOC-3 13,000 scfm RTO unit	1	ea	200	200	65.00	367,000		380,000	13,000	367,000		380,000
4	VOC-4 13,000 scfm RTO unit	1	ea	200	200	65.00	367,000		380,000	13,000	367,000		380,000
all	Adder for RTO for higher SP blower & O2 control loop	4	ea				35,000.00		35,000.00		140,000		140,000
all	Allowance for stainless stack & alum. Grating & handrails	4	ea				15,000.00		15,000.00		60,000		60,000
	<b>Install refractory in VOC's</b>												
1	VOC-1	1	lot	80	80	70.00			5,600.00	5,600			5,600
2	VOC-2	1	lot	100	100	70.00			7,000.00	7,000			7,000
3	VOC-3	1	lot	80	80	70.00			5,600.00	5,600			5,600
4	VOC-4	1	lot	80	80	70.00			5,600.00	5,600			5,600
	<b>Knock out vessels</b>												
1	KO Vessel for VOC-1 - 5000 gal	1	ea	20	20	65.00	37,000.00		38,300.00	1,300	37,000		38,300
2	KO Vessel for VOC-2 - 7000 gal	1	ea	20	20	65.00	45,000.00		46,300.00	1,300	45,000		46,300
3	KO Vessel for VOC-3 - 4000 gal	1	ea	20	20	65.00	33,000.00		34,300.00	1,300	33,000		34,300
4	KO Vessel for VOC-4 - 4000 gal	1	ea	20	20	65.00	33,000.00		34,300.00	1,300	33,000		34,300
	<b>Nozzle Fabrication/Installation at each tank</b>												
all	12" Nozzle(Fabricate)	60	ea	4	240	65.00	215.00		475.00	15,600	12,900		28,500
all	Machine Cut Hole(Specialty Service)	60	ea	2	120	65.00	20.00	600.00	750.00	7,800	1,200	36,000	45,000
all	12" Nozzle(Install)	60	ea	4	240	65.00			260.00	15,600			15,600
all	2" Nozzle(Fabricate)	60	ea	1.5	90	65.00	40.00		137.50	5,850	2,400		8,250
all	Drill Hole W/Hole Saw Auger	60	ea	1	60	65.00			65.00	3,900			3,900
all	2" Nozzle(Install)	60	ea	3	180	65.00			195.00	11,700			11,700