



April 2, 2020

Mr. Justin McManis
McManis Family Vineyards
18700 E River Rd
Ripon, CA 95366

Re: Proposed ATC / Certificate of Conformity (Significant Mod)
Facility Number: N-9371
Project Number: N-1193660

Dear Mr. McManis:

Enclosed for your review is the District's analysis of an application for Authorities to Construct for the facility identified above. You requested that Certificates of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. The proposed project is to install six 74,014-gallon (each) and twenty-four 36,600-gallon (each) wine storage tanks. These tanks are solely dedicated to wine storage operation.

The notice of preliminary decision for this project has been posted on the District's website (www.valleyair.org). After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the Authorities to Construct with Certificates of Conformity. Please submit your comments within the 30-day public comment period, as specified in the enclosed public notice. Prior to operating with modifications authorized by the Authorities to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Nick Peirce, Permit Services Manager, at (209) 557-6400.

Samir Sheikh

Executive Director/Air Pollution Control Officer

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

Southern Region

34946 Flyover Court
Bakersfield, CA 93308-9725

Tel: (661) 392-5500 FAX: (661) 392-5585

Mr. Justin McManis
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Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in blue ink, reading "Arnaud Marjollet". The signature is fluid and cursive, with a horizontal line drawn underneath the name.

Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via EPS

San Joaquin Valley Air Pollution Control District

Authority to Construct Application Review

Wine Storage Tanks

Facility Name: McManis Family Vineyards
Mailing Address: 18700 E River Road
Ripon, CA 95366
Contact Person: Justin McManis
Telephone: (209) 595-5913
Fax: N/A
E-Mail: justin@mcmanisfamilyvineyards.com
Application #(s): N-9371-338-0 through '-367-0
Project #: N-1193660
Deemed Complete: January 6, 2020

Date: April 1, 2020
Engineer: Jag Kahlon
Lead Engineer: James Harader

I. Proposal

McManis Family Vineyards is requesting Authority to Construct (ATC) permits for the installation of six 74,104-gallon (each) and twenty-four 36,600-gallon (each) wine storage tanks. These tanks are solely dedicated to wine storage.

McManis Family Vineyards was issued initial Title V Permit. This modification can be classified as a Title V significant modification pursuant to Rule 2520, Sections 3.20 and 3.29, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the ATC permits. McManis Family Vineyards must apply to administratively amend their Title V Operating Permit to include the requirements of the ATC permits issued with this project.

The draft ATC permits are included in **Appendix A**.

II. Applicable Rules

Rule 2201	New and Modified Stationary Source Review Rule (8/15/19)
Rule 2410	Prevention of Significant Deterioration (6/16/11)
Rule 2520	Federally Mandated Operating Permits (8/15/19)
Rule 4001	New Source Performance Standards (4/14/99)
Rule 4002	National Emissions Standards for Hazardous Air Pollutants (5/20/04)
Rule 4101	Visible Emissions (2/17/05)
Rule 4102	Nuisance (12/17/92)
Rule 4623	Storage of Organic Liquids (5/19/05)
Rule 4694	Wine Fermentation and Storage Tanks (12/15/05)

Rule 4695 Brandy Aging and Wine Aging Operations (9/17/09)
CH&SC 41700 Health Risk Assessment
CH&SC 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

The facility is located at 18700 E River Road in Ripon, California. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. Process Description

McManis Family Vineyards 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 sent to screens and presses for separation of grape skins and seeds prior to fermentation.

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. Tanks can potentially operate in either: (1) a fermentation operation during which the tank is vented directly to the atmosphere to release the evolved CO₂ byproduct from the fermentation reaction; (2) a storage operation during which the tank is closed to minimize contact with air and refrigerated to preserve the wine; (3) or both fermentation and storage operations. Post-fermentation operations such as cold stabilization, racking, and filtration are conducted in the tanks, resulting in a number of inter-tank transfers during the period between the end of fermentation and bottling or bulk shipment. Storage operations are conducted year-round. VOC emissions occur primarily as a result of the inter-tank transfers which are necessitated by the post fermentation operations.

Note that the proposed new tanks in this project are solely dedicated to wine storage.

V. Equipment Listing

N-9371-338-0 through '-343-0:

74,104 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #XX) WITH PRESSURE/VACUUM VALVE AND INSULATION

Once the company performs an actual tank capacity measurement for each tank to establish the as built gauge capacity, the equipment description of the Permit to Operate will then be administratively updated by including tank's gauge capacity. The following condition will be included in each permit:

- The nominal tank dimensions are 22 feet 6 inches in diameter and 26 feet in height with a proposed volume of 74,104 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]

N-9371-344-0 through '-367-0:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #XX) WITH PRESSURE/VACUUM VALVE AND INSULATION

Once the company performs an actual tank capacity measurement for each tank to establish the as built gauge capacity, the equipment description of the Permit to Operate will then be administratively updated by including tank's gauge capacity. The following condition will be included in each permit:

- The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]

VI. Emission Control Technology Evaluation

VOC (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.

VII. General Calculations

A. Assumptions

- VOC (ethanol) emissions are the only pollutant of concern related to this project.
- Other assumptions will be stated as they are made during the analysis.

B. Emission Factors

Per applicant, the maximum ethanol content in the wine would be 16% (by vol.). The emission factors for this alcohol content is summarized below:

Operation	EF (lb-VOC/1,000 gal of wine)		Source
	Daily	Annual	
Wine storage (Red/White) – 16% by vol.	0.248	0.143	District FYI -114 (6/13/12), Table 1 – See Appendix E

C. Calculations

1. Pre-Project Potential to Emit (PE1)

Since each tank is a new emissions unit, PE1 is zero for VOC emissions.

2. Post-Project Potential to Emit (PE2)

N-9371-338-0 through '-343-0:

For each tank,

$$\begin{aligned} \text{PE2} &= 0.248 \text{ lb-VOC/1,000 gallon of throughput} \times 74,104 \text{ gal/turnover} \times 2 \text{ turnovers/day} \\ &= 36.8 \text{ lb-VOC/day/tank} \end{aligned}$$

Per applicant, the maximum annual throughput for each tank would be 296,416 gallons. Thus,

$$\begin{aligned} \text{PE2} &= 0.143 \text{ lb-VOC/1,000 gallon of throughput} \times 296,416 \text{ gal/yr/tank} \\ &= 42 \text{ lb-VOC/yr/tank} \end{aligned}$$

For the six proposed tanks, the total potential emissions would be:

$$\begin{aligned} \text{PE2} &= 42 \text{ lb-VOC/yr/tank} \times 6 \text{ tanks} \\ &= 252 \text{ lb-VOC/yr} \end{aligned}$$

N-9371-344-0 through '-367-0:

For each tank,

$$\begin{aligned} \text{PE2} &= 0.248 \text{ lb-VOC/1,000 gallon of throughput} \times 36,600 \text{ gal/turnover} \times 2 \text{ turnovers/day} \\ &= 18.2 \text{ lb-VOC/day/tank} \end{aligned}$$

Per applicant, the maximum annual throughput for each tank would be 146,400 gallons. Thus,

$$\begin{aligned}\text{PE2} &= 0.143 \text{ lb-VOC/1,000 gallon of throughput} \times 146,400 \text{ gal/yr/tank} \\ &= 21 \text{ lb-VOC/yr/tank}\end{aligned}$$

For the twenty-four proposed tanks, the total potential emissions would be:

$$\begin{aligned}\text{PE2} &= 21 \text{ lb-VOC/yr/tank} \times 24 \text{ tanks} \\ &= 504 \text{ lb-VOC/yr}\end{aligned}$$

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

Pursuant to District Rule 2201, the 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 (AER) that have occurred at the source, and which have not been used on-site. The potential emissions are taken from the application review under project N-1171459.

SSPE1 (lb/year)					
Permit Unit	NO _x	SO _x	PM ₁₀	CO	VOC
N-9371-1-0 through '-307-0	0	0	0	0	84,808
ERC	0	0	0	0	0
SSPE1	0	0	0	0	84,808

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

Pursuant to District Rule 2201, the SSPE2 is the PE from all units with valid ATCs or PTOs at the Stationary Source and the quantity of ERCs which have been banked since September 19, 1991 for AER that have occurred at the source, and which have not been used on-site.

SSPE2 (lb/year)					
Permit Unit	NO _x	SO _x	PM ₁₀	CO	VOC
N-9371-1-0 through '-307-0	0	0	0	0	84,808
N-9371-338-0 through '-367-0	0	0	0	0	756
ERC	0	0	0	0	0
SSPE2	0	0	0	0	85,564

5. Major Source Determination

Rule 2201 Major Source Determination:

Pursuant to District Rule 2201, a Major Source is a stationary source with a SSPE2 equal to or exceeding one or more of the following threshold values. For the purposes of determining major source status the following shall not be included:

- Any ERCs associated with the stationary source
- Emissions from non-road IC engines (i.e. IC engines at a particular site at the facility for less than 12 months)
- Fugitive emissions, except for the specific source categories specified in 40 CFR 51.165

Rule 2201 Major Source Determination (lb/year)						
	NO_x	SO_x	PM₁₀	*PM_{2.5}	CO	VOC
SSPE1	0	0	0	0	0	84,808
SSPE2	0	0	0	0	0	85,564
Major Source Threshold	20,000	140,000	140,000	140,000	200,000	20,000
Major Source?	No	No	No	No	No	Yes

*PM_{2.5} are assumed to be equal to PM₁₀

As seen in the table above, the facility is an existing Major Source for VOC emissions and will remain a Major Source VOC emissions.

Rule 2410 Major Source Determination:

The facility or the equipment evaluated under this project is not listed as one of the categories specified in 40 CFR 52.21 (b)(1)(iii). Therefore the PSD Major Source threshold is 250 tpy for any regulated NSR pollutant.

PSD Major Source Determination (tons/year)						
	NO₂	VOC	SO₂	CO	PM	PM₁₀
Estimated Facility PE before Project Increase	0.0	42.4	0.0	0.0	0.0	0.0
PSD Major Source Thresholds	250	250	250	250	250	250
PSD Major Source?	No	No	No	No	No	No

As shown above, the facility is not an existing PSD major source for any regulated NSR pollutant expected to be emitted at this facility.

6. Baseline Emissions (BE)

The BE calculation (in lb/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 District Rule 2201, BE = PE1 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 District Rule 2201.

N-9371-338-0 through '-367-0:

Since each tank is a new emissions unit, BE is equal to zero for VOC emissions.

7. SB 288 Major Modification

SB 288 Major Modification is defined in 40 CFR Part 51.165 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 section VII.C.5 above, this facility is a Major Source for VOC emissions. This project's PE2 is compared to the SB 288 Major Modification Thresholds in the following table in order to determine if the SB 288 Major Modification calculation is required.

SB 288 Major Modification Thresholds			
Pollutant	Project PE2 (lb/year)	Threshold (lb/year)	SB 288 Major Modification Calculation Required?
VOC	756	50,000	No

As seen in the above table, SB 288 Major Modification Thresholds are not surpassed with this project, this project does not constitute an SB 288 Major Modification.

8. Federal Major Modification

District Rule 2201 states that a Federal Major Modification is the same as a "Major Modification" as defined in 40 CFR 51.165 and part D of Title I of the CAA.

The determination of Federal Major Modification is based on a two-step test. For the first step, only the emission *increases* are counted. Emission decreases may not cancel out the increases for this determination.

Step 1

For new emissions units, the increase in emissions is equal to the PE2 for each new unit included in this project. The project's combined total emission increases are compared to the Federal Major Modification Thresholds in the following table

Federal Major Modification Thresholds for Emission Increases			
Pollutant	Total Emissions Increases (lb/yr)	Thresholds (lb/yr)	Federal Major Modification?
VOC	756	0	Yes

As seen in the table above, this project constitutes a Federal Major Modification. Federal Offset quantities are calculated below:

Federal Offset Quantities:

The Federal offset quantity is only calculated only for the pollutants for which the project is a Federal Major Modification. The Federal offset quantity is the sum of the annual emission changes for all new and modified emission units in a project calculated as the potential to emit after the modification (PE2) minus the actual emissions (AE) during the baseline period for each emission unit multiplied by the applicable federal offset ratio. There are no special calculations performed for units covered by an SLC.

Pollutant: VOC		Federal Offset Ratio	1.5
Permit No.	Actual Emissions (lb/year)	Potential Emissions (lb/year)	Emissions Change (lb/yr)
N-9371-338-0 through -367-0	0	756	756
Net Emission Change (lb/year):			756
Federal Offset Quantity: (NEC * 1.5)			1,134

9. Rule 2410 – Prevention of Significant Deterioration (PSD) Applicability Determination

Rule 2410 applies to any pollutant regulated under the Clean Air Act, except those for which the District has been classified nonattainment. The pollutants which must be addressed in the PSD applicability determination for sources located in the SJV and which are emitted in this project are: (See 52.21 (b) (23) definition of significant)

- VOC

I. Project Emissions Increase - New Major Source Determination

The post-project potentials to emit from all new and modified units are compared to the PSD major source thresholds to determine if the project constitutes a new major source subject to PSD requirements.

The facility or the equipment evaluated under this project is not listed as one of the categories specified in 40 CFR 52.21 (b)(1)(iii). The PSD Major Source threshold is 250 tpy for any regulated NSR pollutant.

PSD Major Source Determination: Potential to Emit (tons/year)						
	NO ₂	VOC	SO ₂	CO	PM	PM ₁₀
Total PE from New and Modified Units	0.0	0.4	0.0	0.0	0.0	0.0
PSD Major Source threshold	250	250	250	250	250	250
New PSD Major Source?	N	N	N	N	N	N

As shown in the table above, the potential to emit for the project, by itself, does not exceed any PSD major source threshold. Therefore Rule 2410 is not applicable and no further analysis is required.

10. Quarterly Net Emissions Change (QNEC)

The QNEC is calculated solely to establish emissions that are used to complete the District's PAS emissions profile screen. Detailed QNEC calculations are included in **Appendix D**.

VIII. Compliance Determination

Rule 2201 New and Modified Stationary Source Review Rule

A. Best Available Control Technology (BACT)

1. BACT Applicability

Pursuant to District Rule 2201, Section 4.1, BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis. Unless specifically exempted by Rule 2201, BACT shall be required for the following actions*:

- Any new emissions unit with a potential to emit exceeding two pounds per day,
- 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 Adjusted Increase in Permitted Emissions (AIPE) exceeding two pounds per day, and/or
- d. Any new or modified emissions unit, in a stationary source project, which results in an SB 288 Major Modification or a Federal Major Modification, as defined by the rule.

*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 lb/day

As seen in Section VII.C.2 above, the potential emissions from each tank are greater than 2 lb/day for VOC. Thus, BACT is triggered for VOC emissions only.

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

None of the emissions units are being relocated from one stationary source to another; therefore, BACT is not triggered.

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

None of the emissions units are being modified in this project; therefore, BACT is not triggered.

d. SB 288/Federal Major Modification

As discussed in Sections VII.C.7 and VII.C.8 above, this project constitute a Federal Major Modification for VOC. Therefore, BACT is triggered for VOC emissions.

2. BACT Guideline

BACT Guideline 5.4.13, applies to wine storage tanks. This guideline is included in **Appendix B**.

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.

Pursuant to the attached Top-Down BACT Analysis (see **Appendix C**), 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 continuous storage temperature not exceeding 75°F, achieved within 60 days of completion of fermentation.

Each wine storage tank will be equipped with a pressure/vacuum (PV) relief valve and will have insulation to minimize temperature fluctuations. PV relief valve is required to be set within 10% of the maximum allowable working pressure of the tank. Further, the tank is required to be operated in a gas-tight condition. The wine temperature is required to be maintained at or below 75 °F within 60 days of the completion of the fermentation cycle. Therefore, the wine storage tanks meet the BACT requirements for this class and category of operation and no further discussion is required.

The following condition will be included in each permit to ensure compliance with the BACT requirements:

- 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]
- 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. [District Rules 2201 and 4694]

B. Offsets

1. Offset Applicability

Pursuant to District Rule 2201, Section 4.5, offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the SSPE2 equals or exceeds the offset threshold levels in Table 4-1 of Rule 2201. The SSPE2 is compared to the offset thresholds in the following table.

Offset Determination (lb/year)					
	NO _x	SO _x	PM ₁₀	CO	VOC
SSPE2	0	0	0	0	85,564
Offset Thresholds	20,000	54,750	29,200	200,000	20,000
Offsets triggered?	No	No	No	No	Yes

2. Quantity of Offsets Required

As seen above, the SSPE2 is greater than the offset thresholds for VOC emissions only. Therefore offset calculations will be required for this project.

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.

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

BE = PE1 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 = HAE

As stated above under section VII.C.6, BE for each tank is zero. Further, there is no increases in cargo carrier emissions; therefore offsets can be determined as follows:

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

PE2 (total) = 756 lb-VOC/year

BE (total) = 0 lb-VOC/year

ICCE = 0 lb/year

Per section VII.C.8 above, this project is a Federal Major Modification. Thus, the distance offset ratio would be 1.5:1, per section 4.8.1 of Rule 2201.

Offsets Required (lb/year) = $([756 - 0] + 0) \times 1.5$
= 756×1.5
= 1,134 lb-VOC/year

The quarterly emissions to be offset is as follows:

Quarterly offsets required (lb/qtr) = $(1,134 \text{ lb-VOC/year}) \div (4 \text{ quarters/year})$
= 283.5 lb-VOC/qtr

The applicant has proposed to use a certificate split from ERC certificate S-5124-1 to offset the increases in VOC emissions associated with this project. The quarterly amount of credits requested for transfer (under project S-1200007) are summarized below:

ERC Number	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Certificate split from ERC S-5124-1	2,000	2,000	2,098	1,902
Offsets Required	283	283	284	284

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

Proposed Rule 2201 (offset) Conditions:

- Prior to operating equipment under Authority to Construct N-9371-338-0 through ‘-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
- ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
- Authority to Construct permits N-9371-338-0 through ‘-367-0 shall be implemented concurrently. [District Rule 2201]

3. ERC Withdrawal Calculations

The applicant must identify the ERC Certificate(s) to be used to offset the increase of VOC emissions for the project. As indicated in previous section, the applicant is proposing to use ERC certificate #S-5124-1 (or a certificate split from this certificate) to mitigate the increases of VOC emissions associated with this project. See **Appendix G** for detailed ERC Withdrawal Calculations.

C. Public Notification

1. Applicability

Pursuant to District Rule 2201, Section 5.4, public noticing is required for:

- a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications,

- b. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
- c. Any project which results in the offset thresholds being surpassed,
- d. Any project with an SSPE of greater than 20,000 lb/year for any pollutant, and/or
- e. Any project which results in a Title V significant permit modification

a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

As demonstrated in Sections VII.C.7 and VII.C.8 above, this project constitute a Federal Major Modification; therefore, public noticing for SB 288 or Federal Major Modification purposes is not required.

b. PE > 100 lb/day

Applications which include a new emissions unit with a PE greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements.

As seen in Section VII.C.2 above, the potential emissions from each tank are not greater than 100 lb/day for any pollutant, therefore public noticing for PE > 100 lb/day purposes is not required.

c. Offset Threshold

Public notification is required if the pre-project Stationary Source Potential to Emit (SSPE1) is increased to a level exceeding the offset threshold levels. The following table compares the SSPE1 with the SSPE2 in order to determine if any offset thresholds have been surpassed with this project.

Offset Thresholds				
Pollutant	SSPE1 (lb/year)	SSPE2 (lb/year)	Offset Threshold	Public Notice Required?
NO _x	0	0	20,000 lb/year	No
SO _x	0	0	54,750 lb/year	No
PM ₁₀	0	0	29,200 lb/year	No
CO	0	0	200,000 lb/year	No
VOC	84,808	85,564	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.

d. SSIPE > 20,000 lb/year

Public notification is required for any permitting action that results in a SSIPE of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE = SSPE2 – SSPE1. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table.

SSIPE Public Notice Thresholds					
Pollutant	SSPE2 (lb/year)	SSPE1 (lb/year)	SSIPE (lb/year)	SSIPE Public Notice Threshold	Public Notice Required?
NO _x	0	0	0	20,000 lb/year	No
SO _x	0	0	0	20,000 lb/year	No
PM ₁₀	0	0	0	20,000 lb/year	No
CO	0	0	0	20,000 lb/year	No
VOC	85,564	84,808	756	20,000 lb/year	No

As demonstrated above, the SSIPE for each pollutant is less than 20,000 lb/year; therefore public noticing for SSIPE purposes is not required.

e. Title V Significant Permit Modification

The proposed project is a Title V significant Modification, and therefore public noticing is required.

2. Public Notice Action

As discussed above, the proposed project is a Federal Major Modification. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and EPA, and a public notice will be electronically published on the District's website prior to the issuance of the ATC permits.

D. Daily Emission Limits (DELs)

DELs and other enforceable conditions are required by Rule 2201 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. The DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

Proposed Rule 2201 (DEL) Conditions:

N-9371-338-0 through '-343-0:

- The ethanol content of wine stored in this tank shall not exceed 16 percent by volume. [District Rule 2201]

- Wine storage throughput in this tank shall not exceed any of the following: 148,208 gallons per day and 296,416 gallons per year. [District Rule 2201]

N-9371-344-0 through '-367-0:

- The ethanol content of wine stored in this tank shall not exceed 16 percent by volume. [District Rule 2201]
- Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [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. The following condition(s) are listed on the permit to operate:

- 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]
- 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 1070, 2201 and 4694]

4. Reporting

No reporting is required to demonstrate compliance with Rule 2201.

F. Ambient Air Quality Analysis (AAQA)

Per Section 4.14 of Rule 2201, ambient air quality analysis (AAQA) shall be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse the violation of an Ambient Air Quality Standard (AAQS).

This project involves only VOC (ethanol) emissions for which AAQS does not exist; therefore, AAQA is not performed for this project.

G. Compliance Certification

Section 4.15.2 of this Rule requires the owner of a new Major Source or a source undergoing a Federal Major 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 Section VIII above, this project does constitute a Federal Major Modification, therefore this requirement is applicable. A copy of the compliance certification letter is included in **Appendix F** of this document.

Compliance is expected with this rule.

Rule 2410 Prevention of Significant Deterioration

As shown in Section VII.C.9 above, this project does not result in a new PSD major source or PSD major modification. No further discussion is required.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. A significant permit modification is defined as a “permit amendment that does not qualify as a minor permit modification or administrative amendment.”

The proposed project is a Significant Modification to the Title V permit since this project triggers a Federal Major Modification under Rule 2201.

As discussed above, the facility has applied for a Certificate of Conformity (COC); therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Therefore, compliance is expected with this rule.

The following permit conditions will be included in each permit to ensure compliance with this rule:

- This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201]
- Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4]

Compliance is expected with this rule.

Rule 4001 New Source Performance Standards (NSPS)

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 storage tank operations.

Rule 4002 National Emission Standards for Hazardous Air Pollutants (NESHAPs)

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 storage tank operations.

Rule 4101 Visible Emissions

Rule 4101 states that no person shall discharge into the atmosphere emissions of any air contaminant aggregating more than 3 minutes in any hour which is as dark as or darker than Ringelmann 1 (or 20% opacity). Visible emissions are not expected as a result of these wine storage operations. Therefore, compliance with this rule is expected.

Rule 4102 Nuisance

Rule 4102 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. Therefore, compliance with this rule is expected. The following condition will be included in each permit:

- 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.

VOC, as ethanol, is the only pollutant generated by wine storage operations. Ethanol is not a hazardous air pollutant (HAP) as defined by Section 44321 of the California Health and Safety Code. There are no increases in HAP emissions associated with any emission units in this project and a health risk assessment is not necessary.

Rule 4623 Storage of Organic Liquids

The purpose of this rule is to limit volatile organic compound (VOC) emissions from the storage of organic liquids. This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.

However, Section 4.1.4 provides an exemption for tanks used to store fermentation products, byproducts or spirits. The tanks in this project are used solely for storage of wine. Therefore, the requirements of this rule does not apply.

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). Since the proposed stainless steel tanks will be used for storage only, this section is not applicable; therefore, no further discussion is required.

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,
- The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings, and
- 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.

The following requirement(s) will be included in each permit to ensure compliance with the above section(s):

- 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]

- 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]

Section 5.2.2 requires that the temperature of the stored wine be maintained at or below 75° F. The following requirement(s) will be included in each permit to ensure compliance with the above section(s):

- 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. [District Rule 2201 and 4694]

Every three years, Section 6.1 and 6.2 require facilities with fermentation operations to submit a Three-Year Compliance Plan and a Three-Year Compliance Plan Verification respectively. The proposed tanks in this project are for wine storage only, and since these sections are not applicable to wine storage operations, no further discussion is required.

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 6.4.1 requires that records be kept for each fermentation batch. These tanks are not fermenters; therefore this section does not apply.

Section 6.4.2 requires that weekly records be kept of wine volume and temperature in each storage tank.

- 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]

The following requirement(s) will be included in each permit to ensure compliance with the above section(s):

- 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]
- 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 1070, 2201 and 4694]

Section 6.4.3 requires that all monitoring be performed for any CERs as identified in the facility's Three-Year Compliance Plan and that the records of all monitoring be maintained. The requirement is for operators mitigating fermentation emissions. The proposed tanks will be used for wine storage operations. Therefore, this section is not applicable to these tanks.

Compliance is expected with this rule.

Rule 4695 Brandy Aging and Wine Aging Operations

The purpose of this rule is to reduce emissions of volatile organic compounds (VOC) and apply to brandy aging and wine aging operations.

Section 4.2 states that this rule shall not apply to wine storage tanks subject to Rule 4694 (Wine Fermentation and Storage Tanks) Section 5.2.

As stated above the proposed tanks are subject to Rule 4694, Section 5.2., therefore these tanks are exempt from the requirements of this rule.

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)

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 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; and
- 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.

District CEQA Findings

The County of San Joaquin (County) is the public agency having principal responsibility for approving the project. As such, the County served as the Lead Agency (CCR §15367). In approving the project, the Lead Agency prepared and adopted a Negative Declaration. The Lead agency filed a Notice of Determination, stating that the environmental document was adopted pursuant to the provisions of CEQA and concluding that the project would not have a significant effect on the environment.

The District is a Responsible Agency for the project because of its discretionary approval power over the project via its Permits Rule (Rule 2010) and New Source Review Rule (Rule 2201), (CCR §15381). As a Responsible Agency the District complies with CEQA by considering the environmental document prepared by the Lead Agency, and by reaching its own conclusion on whether and how to approve the project (CCR §15096).

The District has considered the Lead Agency's environmental document. Furthermore, the District has conducted an engineering evaluation of the project, this document, which demonstrates that Stationary Source emissions from the project would be below the District's thresholds of significance for criteria pollutants. Thus, the District finds that through a combination of project design elements, compliance with applicable District rules and regulations, and compliance with District air permit conditions, project specific stationary source emissions will have a less than significant impact on air quality. The District does not have authority over any of the other project impacts and has, therefore, determined that no additional findings are required (CEQA Guidelines §15096(h)).

Indemnification Agreement/Letter of Credit Determination

According to District Policy APR 2010 (CEQA Implementation Policy), when the District is the Lead or Responsible Agency for CEQA purposes, an indemnification agreement and/or a letter of credit may be required. The decision to require an indemnity agreement and/or a letter of credit is based on a case-by-case analysis of a particular project's potential for litigation risk, which in turn may be based on a project's potential to generate public concern, its potential for significant impacts, and the project proponent's ability to pay for the costs of litigation without a letter of credit, among other factors.

The criteria pollutant emissions and toxic air contaminant emissions associated with the proposed project are not significant, and there is minimal potential for public concern for this particular type of facility/operation. Therefore, an Indemnification Agreement and/or a Letter of Credit will not be required for this project in the absence of expressed public concern.

IX. Recommendation

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue ATCs N-9371-338-0 through '-367-0 subject to the permit conditions on the attached draft ATCs in **Appendix A**.

X. Billing Information

Annual Permit Fees			
Permit Number	Fee Schedule	Fee Description	Annual Fee
N-9371-338-0 through '-343-0 (each)	3020-05 D	74,104 gallons	\$223
N-9371-344-0 through '-367-0 (each)	3020-05 C	36,600 gallons	\$165

Appendixes

- A: Draft ATC Permits
- B: BACT Guideline
- C: BACT Analysis
- D: Quarterly Net Emissions Change
- E: FYI-114
- F: Compliance Certification Letter
- G: ERC Withdrawal Calculations

Appendix A

Draft ATC Permits

***San Joaquin Valley
Air Pollution Control District***

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-338-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

74,104 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #HH-1) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-338-0 : Apr 1 2020 2:46PM -- KAHLOJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 22 feet 6 inches in diameter and 26 feet in height with a proposed volume of 74,104 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 148,208 gallons per day and 296,416 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-339-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

74,104 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #HH-2) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-339-0 : Apr 1 2020 2:46PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 22 feet 6 inches in diameter and 26 feet in height with a proposed volume of 74,104 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 148,208 gallons per day and 296,416 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-340-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

74,104 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #HH-3) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-340-0 : Apr 1 2020 2:46PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 22 feet 6 inches in diameter and 26 feet in height with a proposed volume of 74,104 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 148,208 gallons per day and 296,416 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-341-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

74,104 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #HH-4) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-341-0 : Apr 1 2020 2:46PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 22 feet 6 inches in diameter and 26 feet in height with a proposed volume of 74,104 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 148,208 gallons per day and 296,416 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-342-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

74,104 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #HH-5) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-342-0 : Apr 1 2020 2:46PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 22 feet 6 inches in diameter and 26 feet in height with a proposed volume of 74,104 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 148,208 gallons per day and 296,416 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-343-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

74,104 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #HH-6) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-343-0 : Apr 1 2020 2:46PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 22 feet 6 inches in diameter and 26 feet in height with a proposed volume of 74,104 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 148,208 gallons per day and 296,416 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-344-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-1) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-344-0 : Apr 1 2020 2:46PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-345-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-2) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-345-0 : Apr 1 2020 2:46PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-346-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-3) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-346-0 : Apr 1 2020 2:47PM -- KAHLOHJ : Joint Inspection NOT Required

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-347-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-4) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-347-0 : Apr 1 2020 2:47PM -- KAHLONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-348-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-5) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-348-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-349-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-6) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-349-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

***San Joaquin Valley
Air Pollution Control District***

AUTHORITY TO CONSTRUCT

PERMIT NO: N-9371-350-0

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-7) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-350-0 : Apr 1 2020 2:47PM -- KAHLOJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-351-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #AAA-8) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-351-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

***San Joaquin Valley
Air Pollution Control District***

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-352-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-1) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-352-0 : Apr 1 2020 2:47PM -- KAHLOHJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
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11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-353-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-2) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-353-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-354-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-3) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-354-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-355-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-4) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-355-0 : Apr 1 2020 2:47PM -- KAHLOHJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-356-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-5) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-356-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-357-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-6) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-357-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-358-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-7) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-358-0 : Apr 1 2020 2:47PM -- KAHLOJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

***San Joaquin Valley
Air Pollution Control District***

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-359-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #FFF-8) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-359-0 : Apr 1 2020 2:47PM -- KAHLOJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

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*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-360-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-1) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-360-0 : Apr 1 2020 2:47PM -- KAHLONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-361-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-2) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-361-0 : Apr 1 2020 2:47PM -- KAHLOHJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-362-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-3) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-362-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

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*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-363-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-4) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-363-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

DRAFT

***San Joaquin Valley
Air Pollution Control District***

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-364-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-5) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
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5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-364-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
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12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

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*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-365-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-6) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-365-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

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*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-366-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-7) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under Authority to Construct N-9371-338-0 through '-367-0, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 283 lb, 2nd quarter - 283 lb, 3rd quarter - 284 lb, and 4th quarter - 284 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 8/15/19) for the ERC specified below. [District Rule 2201]
4. ERC Certificate Number S-5124-1 (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 this Authority to Construct. [District Rule 2201]
5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-366-0 : Apr 1 2020 2:47PM -- KAH/LONJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

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*San Joaquin Valley
Air Pollution Control District*

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-9371-367-0

LEGAL OWNER OR OPERATOR: MCMANIS FAMILY VINEYARDS

MAILING ADDRESS: 18700 E RIVER RD
RIPON, CA 95366

LOCATION: 18700 E RIVER RD
RIPON, CA 95366

EQUIPMENT DESCRIPTION:

36,600 GALLON STAINLESS STEEL WINE STORAGE TANK (TANK #GGG-8) WITH PRESSURE/VACUUM VALVE AND INSULATION

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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5. Authority to Construct permits N-9371-338-0 through '-367-0 shall be implemented concurrently. [District Rule 2201]
6. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-9371-367-0 : Apr 1 2020 2:47PM -- KAHLOHJ : Joint Inspection NOT Required

7. The nominal tank dimensions are 17 feet 9 inches in diameter and 20 feet in height with a proposed volume of 36,600 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]
8. This tank shall be used exclusively for wine storage operations only and not for fermentation. [District Rule 2201]
9. 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]
10. 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]
11. 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. [District Rules 2201 and 4694]
12. The ethanol content of wine stored in this tank shall not exceed 16.0 percent by volume. [District Rule 2201]
13. Wine storage throughput in this tank shall not exceed any of the following: 73,200 gallons per day and 146,400 gallons per year. [District Rule 2201]
14. 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]
15. The operator shall maintain records of annual throughput of wine. These records shall be updated at least on a monthly basis. [District Rule 2201]
16. 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]
17. 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 1070, 2201 and 4694]

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Appendix B

BACT Guideline

San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 5.4.13*

Last Update: 09/07/2018

Wine Storage Tank - Non-Wood Material**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	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 (98% control) 2. Capture of VOCs and carbon adsorption (95% control) 3. Capture of VOCs and absorption (90% control) 4. Capture of VOCs and condensation (70% control)	

**This guideline is applicable to a wine storage tank that is not constructed out of wooden materials.

***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 (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 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**

Appendix C

BACT Analysis

Top Down BACT Analysis for VOCs from Wine Storage Operations

Step 1 - Identify All Possible Control Technologies

The SJVUAPCD BACT Clearinghouse guideline 5.4.13 identifies achieved in practice BACT for wine storage tanks as follows:

- 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 identifies technologically feasible BACT for wine storage tanks as follows:

1. Capture of VOCs and thermal or catalytic 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)

***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 to diurnal temperature variations. Tanks made entirely of non-conducting materials such as concrete and wood (except for fittings) are considered self-insulating.*

SJVUAPCD BACT Clearinghouse guideline 5.4.13 does not identify any alternate basic equipment control alternatives.

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 and Control Efficiency
1	Capture of VOCs and thermal oxidation or equivalent	88% ^(*)
2	Capture of VOCs and carbon adsorption or equivalent	86%
3	Capture of VOCs and absorption (scrubber) or equivalent	81%
4	Capture of VOCs and condensation or equivalent	81%
5	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	Baseline (Achieved-in-Practice)

Step 4 - Cost Effectiveness Analysis

A cost effective analysis must be performed for all control options that have not been determined to be achieved in practice in the list from Step 3 above, in the order of their ranking, to determine the cost effective option with the lowest emissions.

District BACT Policy APR 1305 establishes annual cost thresholds for imposed control based upon the amount of pollutants reduced by the controls. If the cost of control is at or below the threshold, it is considered a cost effective control. If the cost exceeds the threshold, it is not cost effective and the control is not required. Per District BACT Policy, the maximum cost limit for VOC reduction is \$17,500 per ton of VOC emissions reduced.

Uncontrolled Storage Emissions

The winery is proposing to install 30 wine storage tanks under this project.

Uncontrolled Storage PE = 756 lb-VOC/year

Total Annual Cost

Total Annual Cost = Cost of Control System + Annual Operating Cost + Ducting/Piping/CIP

As a first step, if just using the partial cost of the ductwork is sufficient to show that the control option is not cost effective, additional costs may not be needed for the calculation purposes for this project.

Collection System Capital Investment

A common feature of all thermal oxidation/carbon adsorption/absorption or condensation options is that they require installation of a collection system for delivering the VOCs from the tanks to the common control device(s). Basis of Cost Information:

- The costs for the ductwork and the required clean-in-place (CIP) system are based on information from the 2005 Eichleay Study. The 2005 Eichleay study was used in development of District Rule 4694 Wine Fermentation and Storage Tanks and includes substantial information on the costs and details of the potential application of VOC controls to wineries and addresses many of the technical issues of the general site specific factors for wineries.
- The District performed a cost survey of stainless steel ducting/piping and found that the values stated in the Eichleay report including the cost of inflation (applied as stated below) were less expensive; therefore, as a conservative estimate, the District will use the cost of ducting/piping from the Eichleay report which will include ducting, fittings, bolt up, handle, and install. A summary of the ducting/piping cost survey is included in Attachment C2.
- Eichleay's cost estimate for ducting included the duct, fittings, bolt up, handle and install; therefore, the District did not allow the additional costs for foundations &

supports, handling & erection, electrical, piping or painting, as allowed by the EPA Cost Manual.

- The collection system consists of stainless steel place ductwork (stainless steel is required due to food grade product status) with isolation valving, connecting the 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 be included in the cost estimate.
- A minimum duct size is established at six inches diameter at each tank to provide adequate strength for spanning between supports.
- One of the major concerns of a manifold duct system is microorganisms spoiling the product, and transferring from one tank to another. It is necessary to design into the system a positive disconnect of the ducting system when the tanks are not being filled. There are a number of ways this can be done. In this case, an automatic butterfly valve with a physical spool to disconnect the tank from the duct will be utilized.
- The ducting/piping costs quoted in the Eichleay study are from 2005 and must be adjusted to reflect 2020 prices. An overall inflation amount of 35% which was taken from the United States Department of Labor, Bureau of Labor Statistics, Consumer Price Index (CPI) Inflation Calculator and applied to the ducting/piping costs to determine the current 2020 prices: http://www.bls.gov/data/inflation_calculator.htm.
- Tank battery configuration is provided in Attachment C1.
- The main ducts are presumed to run in through the middle of each tank battery and 10 feet above the ground floor.
- The emission control equipment is presumed to be installed at least 10 feet away from the tank battery in this project.

Capital Cost of Ductwork

Connection length to main ducts for 36,600-gallon tanks = 24 tanks x ((20-10)+(17.75/2+6/2)) feet x \$31.09/foot = \$16,322

Connection length to main ducts for 71,1040-gallon tanks = 6 tanks x ((26-10)+(22.5/2+6/2)) feet x \$31.09/foot = \$5,643

Main duct lengths = (190 feet +80 feet + 290 feet+ 85 feet) x \$31.09/foot = \$20,053

6 inch butterfly valves = \$2,125/tank x 30 tanks = \$63,750

Removable spool = \$500/tank x 30 tanks = \$15,000

1 Knockout drum = \$86,250 (info from project N-1162270: \$23,000 for 8 tanks, for 30 tanks knockout drum is assumed to be \$86,250)

Structural support allowance = \$86,250

Total cost = \$16,322 + \$5,643 + \$20,053 + \$63,750 + \$15,000 + \$86,250 + \$86,250
= \$293,268

Capital Cost of Ductwork for Wine Storage Tanks	
Cost Description	Cost (\$)
Combined Duct Estimate (Jan 2005 dollars)	\$293,268
Adjusting factor for inflation from Jan 2005 dollars to November 2019 dollars (35% total increase)	\$102,644
Inflation adjusted duct cost	\$395,912
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
Direct Costs	
Base Equipment Costs (Ductwork) See Above	\$395,912
Instrumentation (not required)	-
Sales Tax – 3.1825% of base equipment	\$12,600
Freight - 5% of base equipment	\$19,796
Purchased equipment cost (PEC)	\$428,308
Foundations & supports 8% (allowance already included in cost estimate)	-
Handling & erection 14% (already included in Eichleay cost estimate)	-
Electrical 4% (not required)	-
Piping 2% (not required)	-
Painting 1% (not required)	-
Insulation 1% of PEC	\$4,283
Direct Installation Costs (DIC)	\$4,283
Total Direct Costs (DC) (PEC + DIC)	\$432,591
Indirect Costs	
Engineering - 10% of PEC	\$42,831
Construction and field expenses - 5% of PEC	\$21,415
Contractor Fees - 10% of PEC	\$42,831
Start-up - 2% of PEC	\$8,566
Performance Test - 1% of PEC	\$4,283
Total Indirect Costs (IC)	\$119,926
Subtotal Capital Investment (SCI) (DC + IC)	\$552,517
Contingencies – 15% of SCI	\$82,878
Total Capital Investment (TCI) (SCI + Contingency)	\$635,395

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

Amortization Factor = $\left[\frac{0.1(1.1)^{10}}{(1.1)^{10} - 1} \right] = 0.163$ per District policy, amortizing over 10 years at 10%

Therefore,

Collection System Annualized Capital Investment = \$635,395 x 0.163 = \$103,569/yr

Option 1 – Collection of VOCs and control by thermal or catalytic oxidation (88% collection & control)

The cost of vapor collection system alone, not including the cost of thermal/catalytic oxidizer, is sufficient to demonstrate that this technology will not be cost effective. See calculations below:

Emission Reductions

Annual Emission Reduction = Uncontrolled Emissions x 0.88
= 756 lb-VOC/year x 0.88 x ton/2,000 lb
= 0.333 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = \$103,569/year ÷ 0.333 tons-VOC/year
= \$311,018/ton-VOC

Since the cost effectiveness value is greater than \$17,500/ton, this option is not cost-effective and will not be considered for this project.

Option 2 - Collection of VOCs and control by carbon adsorption (86% collection and control):

The cost of vapor collection system alone, not including the cost of carbon adsorber, is sufficient to demonstrate that this technology will not be cost effective. See calculations below:

Emission Reductions

Annual Emission Reduction = Uncontrolled Emissions x 0.86
= 756 lb-VOC/year x 0.86 x ton/2,000 lb
= 0.333 tons-VOC/year

Cost Effectiveness

Cost Effectiveness = \$103,569/year ÷ 0.333 tons-VOC/year
= \$311,018/ton-VOC

Since the cost effectiveness value is greater than \$17,500/ton, this option is not cost-effective and will not be considered for this project.

Option 3 - Collection of VOCs and Control by Absorption/Scrubber (81% collection & control):

The cost of vapor collection system alone, not including the cost of absorption/scrubber, is sufficient to demonstrate that this technology will not be cost effective. See calculations below:

Emission Reductions

$$\begin{aligned}\text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.81 \\ &= 756 \text{ lb-VOC/year} \times 0.81 \times \text{ton}/2,000 \text{ lb} \\ &= 0.306 \text{ tons-VOC/year}\end{aligned}$$

Cost Effectiveness

$$\begin{aligned}\text{Cost Effectiveness} &= \$103,569/\text{year} \div 0.306 \text{ tons-VOC/year} \\ &= \$338,461/\text{ton-VOC}\end{aligned}$$

Since the cost effectiveness value is greater than \$17,500/ton, this option is not cost-effective and will not be considered for this project.

Option 4 - Capture of VOCs and Condensation (81% collection & control):

The cost of vapor collection system alone, not including the cost of clean-in-place or absorption/scrubber, is sufficient to demonstrate that this technology will not be cost effective. See calculations below:

Emission Reductions

$$\begin{aligned}\text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.81 \\ &= 756 \text{ lb-VOC/year} \times 0.81 \times \text{ton}/2,000 \text{ lb} \\ &= 0.306 \text{ tons-VOC/year}\end{aligned}$$

Cost Effectiveness

$$\begin{aligned}\text{Cost Effectiveness} &= \$103,569/\text{year} \div 0.306 \text{ tons-VOC/year} \\ &= \$338,461/\text{ton-VOC}\end{aligned}$$

Since the cost effectiveness value is greater than \$17,500/ton, this option is not cost-effective and will not be considered for this project.

Option 5 - Insulation, PVRV, “Gas-Tight” Tank Operation, and Storage Temperature not Exceeding 75 deg F, Achieved within 60 days of Completion of Fermentation):

The only remaining control option in step 3 above has been deemed AIP for this class and category of source and per the District BACT policy is required regardless of the cost. Therefore, a cost effectiveness analysis is not required.

Step 5 – Select BACT

Based on the above discussion, BACT for each tank is to insulate tank, install pressure/vacuum valve and set it 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 applicant has proposed to comply with the BACT requirements.

Attachment C1
Ducting Layout Diagram

Attachment C2
Comparison of Stainless Steel Ducting Costs

Ducting/Piping Cost Comparison

Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"
Eicheay - Ducting/Piping Only \$/Foot				\$23.17	\$38.59	\$54.00	\$62.00	\$65.50	\$69.00	\$86.00	\$92.00	\$99.00	\$106.00	\$119.00
Eicheay - Ducting/Piping Only \$/Foot including 21.93% for inflation				\$28.25	\$47.05	\$65.84	\$75.60	\$79.86	\$84.13	\$104.86	\$112.18	\$120.71	\$129.25	\$145.10
Average of District Cost Survey in \$/Foot	\$15.45	\$30.85	\$27.67	\$44.13	\$37.50	\$33.13	\$93.75	\$181.70	\$216.50	\$189.02	\$308.40	--	\$193.99	--

Ducting/Piping Costs based on Eicheay Report

Note: Minimum of 6" Diameter for Structural Support														
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"
Ducting/Piping Only \$/Foot				\$23.17	\$38.59	\$54.00	\$62.00	\$65.50	\$69.00	\$86.00	\$92.00	\$99.00	\$106.00	\$119.00
Ducting + Fittings, Bolt Up, Handling, & Install \$/Foot				\$62.17	\$103.25	\$144.33	\$143.83	\$174.17	\$204.52	\$251.38	\$309.38	\$306.44	\$397.67	\$476.73
Ducting + Fittings, Bolt Up, Handling, & Install \$/Foot				\$62.17	\$103.25	\$144.33	\$143.83	\$174.17	\$204.52	\$251.38	\$309.38	\$306.44	\$397.67	\$476.73

Supplier: Grainger (<https://www.grainger.com>)

Location: Fresno, CA and Ceres, CA

Schedule 10	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Price (\$)	\$229.50	\$387.75	\$587.50	--	--	--	--	--	--	--	--	--	--
Length (feet)	10	10	10	--	--	--	--	--	--	--	--	--	--
Price/Foot (\$)	\$22.95	\$38.78	\$58.75	--	--	--	--	--	--	--	--	--	--

Supplier: Stockton Pipe and Supply Inc (<http://www.stocktonpipe.net>)

Location: Stockton, CA

Supplier: Stockton Pipe and Supply Inc (http://www.stocktonpipe.net)													Location: Stockton, CA	
Note: Sizes over 12" Diameter need to be ordered from Mill														
0.109" thickness tube or Schedule 10 Pipe														
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	
Price (\$)	—	—	—	—	—	\$700.00	\$840.00	—	—	—	—	—	\$3,159.60	
Length (feet)	—	—	—	—	—	20	20	—	—	—	—	—	20	
Price/Foot (\$)	—	—	—	—	—	\$35.00	\$42.00	—	—	—	—	—	\$157.98	

Supplier: Valley Iron Inc (<http://www.stocktonpipe.net>)

Location: Fresno, CA

Note: Sch 10 T-304 20"														Location: Fresno, CA			
Supplier: Valley Iron Inc (http://www.stocktonpipe.net)																	
Schedule 10 Pipe																	
Duct Size Diameter (in.)																	
Length (feet)																	
Price/Foot (\$)																	
2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"					
--	--	20	20	20	20	--	--	--	--	--	--	--					
--	--	\$10.75	\$16.90	\$26.00	\$33.90	--	--	--	--	--	--	--					

Supplier: Del Paso Pipe & Steel Inc. (http://www.delpasopipesandsteel.com/) Location: Sacramento, CA									
Schedule 80 Pipe									
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"
Price Quote \$9/lb									
Estimated Price/Foot	-	-	-	-	-	-	\$217.00	\$250.00	\$286.00
								\$432.00	\$432.00

Supplier: Hayward Pipe & Supply Co. Inc. (http://www.haywardpipe.com/) Location: Hayward, CA									
Note: Large diameter pipe ships from Texas. Freight NOT QUOTED - Additional Shipping Costs apply									
Schedule 10 Pipe									
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"
Price (\$)	-	-	-	-	-	-	\$1,540.00	\$2,268.00	\$2,340.00
Length (feet)	-	-	-	-	-	-	20	20	20
Price/Foot (\$)	-	-	-	-	-	-	\$77.00	\$113.40	\$147.00
								\$163.80	\$184.80

Supplier: OnlineMetals.com (http://www.onlinemetals.com/) Location: Nearest Warehouse - Los Angeles, CA									
Schedule 10 Pipe									
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"
Price (\$)	\$75.28	\$108.97	\$160.34	\$288.00	\$520.00	-	-	-	-
Length (feet)	8	8	8	8	8	-	-	-	-
Price/Foot (\$)	\$9.79	\$13.62	\$20.04	\$36.00	\$65.00	-	-	-	-
Welded Stainless Tube 304/304L 12" OD 0.12" Wall 3" OD 0.12" Wall 5" OD 0.12"									
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"
Price (\$)	\$109.86	\$321.34	-	\$828.15	-	-	-	-	-
Length (feet)	8	6	-	8	-	-	-	-	-
Price/Foot (\$)	\$13.73	\$40.17	-	\$78.52	-	-	-	-	-

Supplier: Lone Star Supply Co Location: Dickinson, TX									
Note: Additional shipping costs									
Schedule 10 Welded Pipe									
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"
Price/Foot (\$)	-	-	\$16.45	\$19.60	\$21.50	\$30.50	\$39.00	-	\$81.25
									\$230.00

Supplier: Global Technology and Engineering Location: Excelsior Springs, MO									
Note: Additional shipping costs									
11 Gauge Tubing									
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"
Price (\$)	-	-	\$226.58	\$487.40	-	-	-	-	-
Length (feet)	-	-	7	7	-	-	-	-	-
Price/Foot (\$)	-	-	\$32.37	\$69.63	-	-	-	-	-

Only suppliers that have both 3" and 6"

All suppliers \$30.85 \$30.85

\$44.13 \$57.26

70% 54%

33.50034

Appendix D
Quarterly Net Emissions Change

Quarterly Net Emissions Change (QNEC)

The Quarterly Net Emissions Change is used to complete the emission profile screen for the District's PAS database. The QNEC shall be calculated as follows:

$QNEC = PE2 - PE1$, where:

QNEC = Quarterly Net Emissions Change for each emissions unit, lb/qtr.

PE2 = Post-Project Potential to Emit for each emissions unit, lb/qtr.

PE1 = Pre-Project Potential to Emit for each emissions unit, lb/qtr.

Using the values in Sections VII.C.2 and VII.C.1 in the evaluation above, quarterly PE2 and quarterly PE1 can be calculated as follows:

$PE2_{\text{quarterly}} = PE2_{\text{annual}} \div 4 \text{ quarters/year}$

$PE1_{\text{quarterly}} = PE1_{\text{annual}} \div 4 \text{ quarters/year}$

N-9371-338-0 through '-343-0 (each): :

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
NO _x	0	0	0
SO _x	0	0	0
PM ₁₀	0	0	0
CO	0	0	0
VOC	10.5	0	10.5

N-9371-344-0 through '-367-0 (each):

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
NO _x	0	0	0
SO _x	0	0	0
PM ₁₀	0	0	0
CO	0	0	0
VOC	5.25	0	5.25

Appendix E
FYI-114

**SAN JOAQUIN VALLEY UNIFIED
AIR POLLUTION CONTROL DISTRICT**

DATE: March 8, 2007 (Revised 09/14/09) (Revised 8/10/11) (Revised 6/13/12)
TO: Permit Services Staff
FROM: Dennis Roberts
SUBJECT: VOC Emission Factors for Wine Fermentation and Storage Tanks

Winery tank operations generally consist of two separate emissions units; 1) fermentation and 2) storage of wine and spirits. Any particular tank may be permitted to perform one or both of these operations. The emissions from each emission unit are appropriately combined to yield the Potential to Emit for the tank (permit unit).

Emissions from fermentation operations are estimated using emission factors which have been developed based on a recognized fermentation model and are presented herein. For wine storage operations, emissions can be determined in general by modeling the storage tank operation using the EPA's Tanks 4.0 software (modeling procedures and an ethanol/water data base have been established as described in FYI-295 (*Modeling Emissions from Wine Storage Tanks*)). However, the majority of wine storage tanks located in the District are insulated storage tanks which do not have a requirement for refrigeration (ambient storage temperature). For this classification of tank the storage emission factor, as calculated by the Tanks 4.0 model, is a function of ethanol content only. For this case the tabular emission factors presented herein are applicable (note that storage tanks which are un-insulated and/or which have NSR limits on the tank operating temperature should be estimated by the emissions modeling per FYI-295).

Wine Storage Tanks

Wine storage tanks perform two functions in the winery:

- Facilitation of post-fermentation processing operations such as racking, filtration, malolactic fermentation and bottling. In this role, the typical storage tank is filled and emptied several times per year with the wine being transferred from tank to tank. Many of these operations occur prior to chilling of the wine. Emissions from such operations are "working losses" which occur as a result of the displacement of the vapor space of the tank into the atmosphere during the filling operations. For insulated tanks (or tanks installed in a climate-controlled building), working losses are a function only of the ethanol content, the ambient temperature and the tank throughput.
- Static storage of wine between processing operations up to the final operation of bottling. In this operation, a common objective is to avoid oxidation of the wine by both minimizing the wine temperature and the exposure of the wine to air. In such cases, the wine may be maintained at a temperature below ambient, often in the range of 35-40 °F, however, since the tank cannot be always maintained at this temperature due to processing considerations, the lower temperatures are not an NSR condition on the permit. Also, the tanks are typically maintained at as high a liquid level as possible to minimize contact with oxygen. Emissions from static storage are

“breathing losses” which are the result of diurnal heating and cooling caused by the effect of daily variations in atmospheric conditions on the contents of the tank. For a well-insulated tank, equipped with a pressure/vacuum relief valve per the requirements of District Rule 4694, breathing losses are considered to be negligible since the insulation serves to maintain a relatively uniform temperature inside the tank while the pressure/vacuum valve serves to contain small internal variations, preventing escape of vapor to the atmosphere.

Table 1 presents emission factors for wine and spirits storage in ambient temperature tanks (non-refrigerated), equipped with insulation and/or located in a climate-controlled building. The tabular values have been developed using the District’s emissions modeling procedure for wine and spirits tanks (see FYI-295). As shown, different emission factors are presented for tanks located in the three different regions of the District based upon higher ambient temperatures in the southern part of the Central Valley. All factors represent working losses only since breathing losses are considered negligible as discussed above. Emission factors for concentrations not listed in Table 1 may be interpolated from the table.

Table 1: Emission Factors for Wine and Spirits Storage Tanks by Region in the San Joaquin Valley
lb-VOC per 1,000 gallons of throughput

Applicability:	1. Vertical Fixed-Roof tank, insulated or located in climate-controlled building 2. Ambient temperature storage					
	Southern Region		Central Region		Northern Region	
Vol %	Annual	Daily	Annual	Daily	Annual	Daily
2	0.016	0.029	0.015	0.027	0.014	0.024
4	0.033	0.062	0.032	0.057	0.030	0.051
6	0.052	0.099	0.050	0.092	0.047	0.081
8	0.074	0.141	0.071	0.130	0.067	0.116
10	0.098	0.187	0.094	0.173	0.088	0.154
12	0.125	0.239	0.120	0.221	0.112	0.196
14	0.143	0.273	0.137	0.252	0.128	0.223
16	0.159	0.302	0.153	0.280	0.143	0.248
18	0.176	0.334	0.169	0.310	0.159	0.275
20	0.195	0.368	0.187	0.341	0.175	0.303
22	0.215	0.404	0.207	0.375	0.194	0.333
24	0.237	0.443	0.227	0.412	0.213	0.366
26	0.251	0.470	0.242	0.436	0.227	0.388
28	0.264	0.494	0.254	0.458	0.238	0.408
30	0.278	0.518	0.267	0.481	0.251	0.428
32	0.293	0.544	0.281	0.506	0.264	0.450
34	0.308	0.572	0.296	0.531	0.278	0.473
36	0.324	0.600	0.312	0.559	0.293	0.498
38	0.335	0.620	0.323	0.577	0.303	0.514
40	0.347	0.640	0.334	0.595	0.313	0.530
42	0.358	0.660	0.345	0.614	0.324	0.546
44	0.371	0.681	0.357	0.634	0.335	0.565
46	0.384	0.703	0.370	0.655	0.348	0.584
48	0.396	0.724	0.381	0.674	0.359	0.602
50	0.405	0.738	0.390	0.688	0.367	0.615
52	0.415	0.754	0.400	0.703	0.376	0.628
54	0.425	0.770	0.410	0.718	0.386	0.642
56	0.436	0.788	0.420	0.734	0.396	0.657
58	0.447	0.805	0.431	0.751	0.406	0.673
60	0.455	0.818	0.438	0.764	0.413	0.684
62	0.462	0.832	0.446	0.777	0.420	0.695
64	0.471	0.847	0.454	0.790	0.427	0.708
66	0.479	0.863	0.462	0.805	0.435	0.721
68	0.489	0.879	0.471	0.820	0.443	0.735
70	0.497	0.896	0.479	0.836	0.451	0.748
72	0.507	0.914	0.488	0.853	0.460	0.763
74	0.517	0.933	0.498	0.871	0.468	0.779
76	0.527	0.954	0.508	0.890	0.478	0.796
78	0.539	0.976	0.519	0.910	0.489	0.814
80	0.552	1.000	0.531	0.932	0.500	0.833
82	0.566	1.025	0.545	0.955	0.513	0.855
84	0.581	1.052	0.559	0.981	0.526	0.877
86	0.598	1.083	0.576	1.010	0.542	0.903
88	0.617	1.120	0.595	1.044	0.559	0.934
90	0.639	1.161	0.616	1.082	0.579	0.967
92	0.663	1.206	0.639	1.124	0.601	1.004
94	0.694	1.261	0.669	1.175	0.629	1.050
96	0.742	1.339	0.715	1.249	0.673	1.118
98	0.786	1.409	0.757	1.315	0.714	1.179
100	0.838	1.534	0.807	1.437	0.762	1.278

For purposes of calculating actual annual emissions, the annual data in Table 1 have been curve-fitted based on an equation of the form $E_f = ap^2 + bp + c$, where p = vol% ethanol (e.g., 20% = 0.20). The constants for the equation are as follows:

Constants for Emission Factor Correlation			
$E_f = ap^2 + bp + c$			
p = volume percentage ethanol			
Southern Region			
Concentration Range	a	b	c
0 to 24%	-0.45139	1.0958	0
>24 to 66%	-0.47357	1.0088	0.019486
>66% to 92%	1.5279	-1.7467	0.97149
>92% to 100%	6.7857	-10.819	4.8713
Central Region			
Concentration Range	a	b	c
0 to 24%	-0.45139	1.0542	0
>24 to 66%	-0.45117	0.96968	0.018554
>66% to 92%	1.5254	-1.7662	0.96812
>92% to 100%	6.4286	-10.223	4.6016
Northern Region			
Concentration Range	a	b	c
0 to 24%	-0.38194	0.97917	0
>24 to 66%	-0.42159	0.91316	0.016237
>66% to 92%	1.3799	-1.5774	0.87906
>92% to 100%	6.6071	-10.651	4.8061

The mathematical correlation for concentrations up to 24% provides a slightly conservative estimate of the emission factor relative to the data in Table 1 based on smoothing the impact of the linear interpolation process employed in development of the ethanol/water data base used for modeling wine tank emissions in EPA Tanks 4.0. Mathematical correlations for concentrations greater than 24% are based on a least square analysis of the data in Table 1.

Use of Table I and correlations to estimate emissions insulated wine storage tank subject to ambient temperature is demonstrated by the following examples:

Example 1 (wine storage tank with daily and annual throughput limits and maximum ethanol content) – estimate the potential to emit for an insulated 100,000 gallon nominal capacity steel storage tank to store wine with maximum concentration of 14 vol% ethanol. Maximum daily throughput is one tank turn or 100,000 gallons/day. Maximum annual throughput will be 600,000 gallons per year. The tank will be installed in a facility located in the Southern Region.

For a storage tank located in the Southern Region and handling up to 14% ethanol, the annual emission factor is 0.143 lb-VOC/1000 gallons throughput and the daily emission factor is 0.273 lb-VOC/1000 gallons throughput.

$$\text{Daily PE} = 100,000 \text{ gallons/day} \times 0.273 \text{ lb-VOC/1000 gallons} = 27.3 \text{ lb-VOC/day}$$

$$\text{Annual PE} = 600,000 \text{ gallons/year} \times 0.143 \text{ lb-VOC/1000 gallons} = 86 \text{ lb-VOC/year}$$

DEL conditions for this example would be:

- *Ethanol content of wine in this tank shall not exceed 14.0 percent by volume. [District Rule 2201]*
- *Tank throughput shall not exceed either of the following limits: 100,000 gallons in any one day or 600,000 gallons per year. [District Rule 2201]*

Example 2 (wine and spirits storage tank subject to a daily throughput limit and an SLC limit on annual emissions) – estimate the potential to emit for an insulated 100,000 gallon nominal capacity steel storage tank to store spirits with maximum concentration of 80 vol% ethanol. Maximum allowed annual emissions for the tanks in the SLC are 10,000 lb/year. Maximum daily throughput is one tank turn or 100,000 gallons/day. The tank will be installed in a facility located in the Northern Region.

For a storage tank located in the Northern Region and handling up to 80% ethanol, the daily emission factor is 0.833 lb-VOC/1000 gallons throughput. Since the annual emissions are constrained by the SLC, an annual emission factor is not needed for the PE calculation but will be placed on the permit for purposes of demonstrating annual compliance on an ongoing basis. Since the ethanol concentration can vary from 0% to 80%, three separate correlation equations are required to cover the potential range:

$$\text{For concentration } p = 0 - 24\%: \quad E_f = ap^2 + bp + c$$

$$\begin{aligned} a &= -0.38194 \\ b &= 0.97917 \\ c &= 0 \end{aligned}$$

$$\text{For concentration } p = 24\% < p < 66\%: \quad E_f = ap^2 + bp + c$$

$$\begin{aligned} a &= -0.42159 \\ b &= 0.91316 \\ c &= 0.016237 \end{aligned}$$

$$\text{For concentration } p = 66\% < p < 80\%: \quad E_f = ap^2 + bp + c$$

$$\begin{aligned} a &= 1.3799 \\ b &= -1.5774 \\ c &= 0.87906 \end{aligned}$$

Daily PE = 100,000 gallons/day x 0.833 lb-VOC/1000 gallons = 83.3 lb-VOC/day

DEL conditions for this example would be:

- *Ethanol content of wine or spirits in this tank shall not exceed 80.0 percent by volume. [District Rule 2201]*
- *Tank throughput shall not exceed 100,000 gallons in any one day. [District Rule 2201]*
- *Combined annual VOC emissions from all wine storage operations under permit units X-XXXX-XXX through X-XXXX-XXX shall not exceed 10,000 pounds per year. [District Rule 2201]*
- *Combined annual VOC emissions from wine storage operations under permit units X-XXXX-XXX through X-XXXX-XXX 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]*
- *The annual VOC wine storage emission factor for each wine or spirits ethanol content shall be calculated using the following equation: $EF = a * P^2 + b * P + c$; 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. For concentrations up to and including 24 volume %, $a = -0.38194$, $b = 0.97917$ and $c = 0$. For concentrations greater than 24 volume % up to and including 66 volume%, $a = -0.42159$, $b = 0.91316$ and $c = 0.016237$. For concentrations greater than 66 volume % up to and including 80 volume %, $a = 1.3799$, $b = -1.5774$ and $c = 0.87906$. [District Rule 2201]*

Wine Fermentation Tanks

During the wine fermentation process, sugar in the grape juice reacts with yeast to form alcohol (ethanol) and carbon dioxide (CO₂) gas. Ethanol is emitted into the atmosphere through evaporation. According to Williams and Boulton¹, the only important mechanism for ethanol loss is equilibrium evaporation into the escaping CO₂ stream. The physical entrainment of ethanol droplets in the CO₂ gas is insignificant in modern enclosed fermentation vessels. These researchers' model indicates that as fermentation temperature increases, ethanol loss increases exponentially. Since red wines are fermented at significantly higher temperatures than white wine, a different emission factor is required for each case.

Annual Fermentation Emission Factors

The California Air Resources Board (CARB) has established annual emission factors for fermentation of both red and white wines, based on the computer model developed by Williams and Boulton. The emission factors were developed for purposes of emission

¹ L.A. Williams and R. Boulton, Modeling and Prediction of Evaporative Ethanol Loss During Wine Fermentation, American Journal of Enology and Viticulture, 32:234-242, (1983).

inventory estimation and represent a typical wine fermentation operation based on average fermentation temperatures and average initial sugar concentrations (°Brix) and are presented in Emissions Inventory Procedural Manual, Section 5.1, Air Resources Board, 1997. These factors have been adopted by the District in Rule 4694, *Wine Fermentation and Storage Tanks*. The established factors are as follows:

Red Wine Fermentation: 6.2 lb-VOC/1000 gallons fermented per year
(78 °F fermentation temperature, 21.8 °Brix)

White Wine Fermentation: 2.5 lb-VOC/1000 gallons fermented per year
(58 °F fermentation temperature, 20.4 °Brix)

Daily Fermentation Emission Factors

The District has developed factors for daily Potential to Emit using the previously-referenced research by Williams and Boulton (see Appendix A). To ensure the factors represent true Potential to Emit, the daily emission factors were developed based on typical maximum fermentation temperatures and starting sugar concentrations rather than average values:

Red Wine Fermentation: 3.46 lb-VOC/1000 gallons tank capacity per day
(85 °F fermentation temperature, 22.5 °Brix)

White Wine Fermentation: 1.62 lb-VOC/1000 gallons tank capacity per day
(70 °F fermentation temperature, 22.5 °Brix)

Example 3 (fermentation tank) - estimate the daily and annual potential to emit for a 200,000 gallon nominal capacity fermentation tank to exclusively ferment red wine. Maximum fermentation throughput will be 900,000 gallons red wine per year. The tank will not be used for storage.

Daily $PE_{\text{fermentation}}$ = 3.46 lb-VOC/day per 1000 gallons nominal tank capacity x 200 Mgal nominal

Daily $PE_{\text{fermentation}}$ = 692.1 lb/day

Daily PE = Daily $PE_{\text{fermentation}}$ = 692.1 lb/day

Annual PE = 6.2 lb-VOC per 1000 gallons fermented x 900 Mgal/year = 5,580 lb-VOC/yr

Example 5 (fermentation and storage tank) - estimate the daily and annual potential to emit for a 100,000 gallon nominal capacity fermentation tank to ferment red wine. Maximum fermentation throughput will be 450,000 gallons red wine per year. The tank will also be used for storage identical with example 1:

In this case,

Daily PE = the larger of either Daily $PE_{\text{fermentation}}$ or Daily PE_{storage}

And.

$$\text{Annual PE} = \text{Annual PE}_{\text{fermentation}} + \text{Annual PE}_{\text{storage}}$$

Calculating the Daily PE:

$$\text{Daily PE}_{\text{fermentation}} = 3.46 \text{ lb-VOC/day per 1000 gallons nominal tank capacity} \times 100 \text{ Mgal nominal}$$

$$\text{Daily PE}_{\text{fermentation}} = 346.0 \text{ lb-VOC/day}$$

From example 1,

$$\text{Daily PE}_{\text{storage}} = 27.3 \text{ lb-VOC/day}$$

Therefore,

$$\text{Daily PE} = 346.0 \text{ lb/day}$$

Calculating the Annual PE:

$$\text{Annual PE}_{\text{fermentation}} = 6.2 \text{ lb-VOC per 1000 gallons fermented} \times 450 \text{ Mgal/year} = 2,790 \text{ lb-VOC/yr}$$

From example 1,

$$\text{Annual PE}_{\text{storage}} = 97 \text{ lb-VOC/year}$$

Therefore,

$$\text{Annual PE} = 2,790 + 97 = 2,887 \text{ lb/year}$$

Appendix A

Daily Emission Factor for Wine Fermentation

Appendix A

The emission factor for daily PE is based on the following:

- Estimation of maximum daily fermentation emissions is based on Figure 7 from the Williams and Boulton work referenced in the body of this document.
- Maximum red wine fermentation temperature is assumed to be 85 °F.
- Maximum white wine fermentation temperature is assumed to be 70 °F.
- Maximum working capacity of a red wine fermenter is 80% of tank maximum capacity.
- Maximum working capacity of a white wine fermenter is 95% of tank maximum capacity.

Figure 7 from Williams and Boulton indicates the ethanol emission rate (mg per hour per liter of wine) versus time for various fermentation temperatures. The total emissions in mg per liter of wine for any time period is the area under the curve. Thus, for any given temperature, figure 7 can be graphically integrated over the 24 hour period during which maximum emissions occur. A copy of figure 7 is attached which indicates the integration interval for red wine (85 °F) and for white wine (70 °F). Results of integration of Figure 7 are presented in the following table:

Graphical Integration Results to Determine Daily Fermentation Emission Factor from Figure 7 of Williams and Boulton		
	Red Wine	White Wine
Maximum 24 hour Emissions (mg/liter of wine per day)	518.6	203.9
Maximum 24 hour Emissions (1b/1000 gallons of wine per day)	4.33	1.70
Maximum Batch Size (% of Tank Capacity)	80%	95%
Daily Emission Factor (lb/1000 gallons tank capacity per day)	3.46	1.62

Appendix A

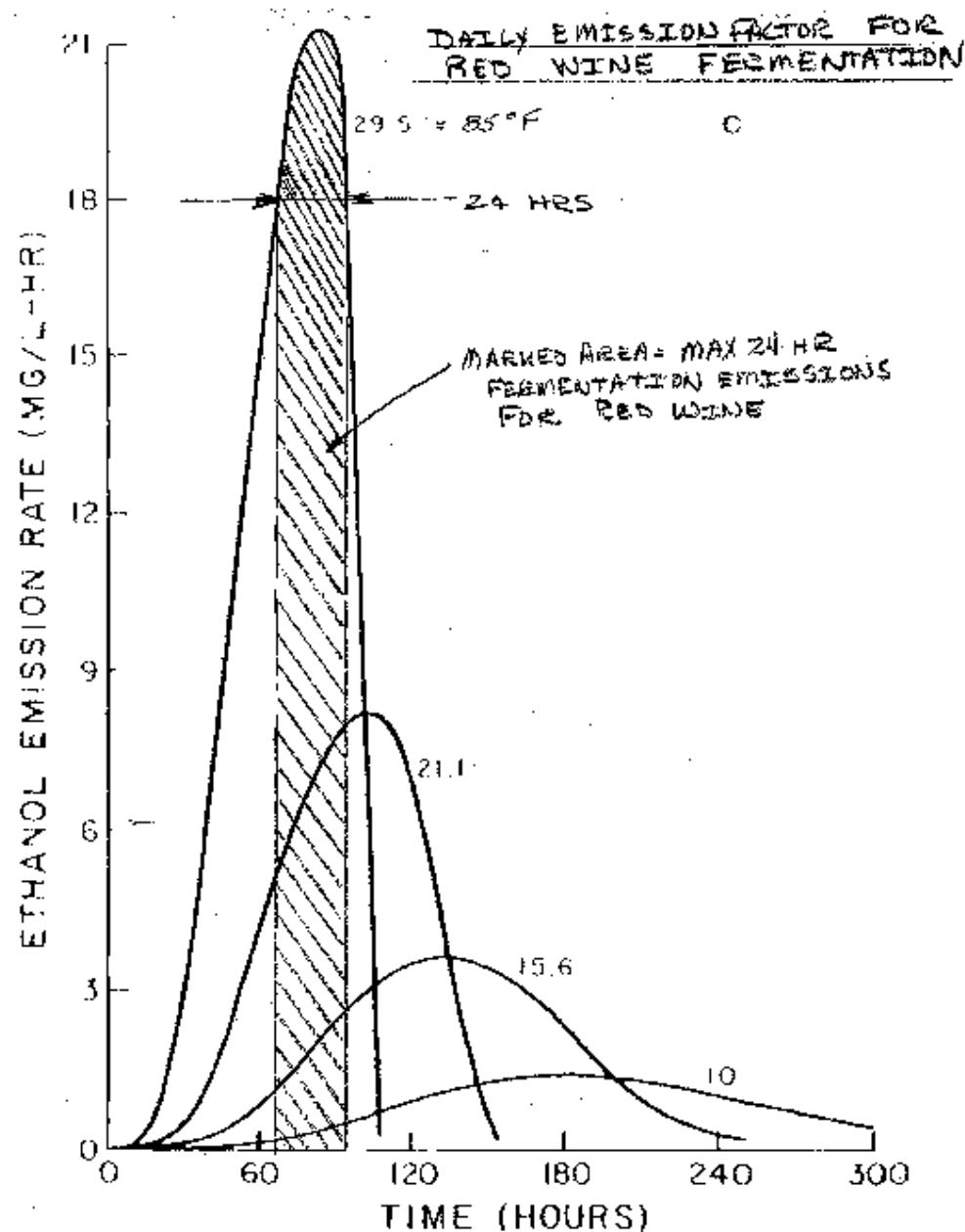


Fig. 7. The influence of fermentation temperature on a) the fermentation rate, b) the vapor phase ethanol concentration, and c) the rate of ethanol emission. (Initial sugar content of 22.5°Brix, isothermal fermentation at indicated temperature.)

Appendix A

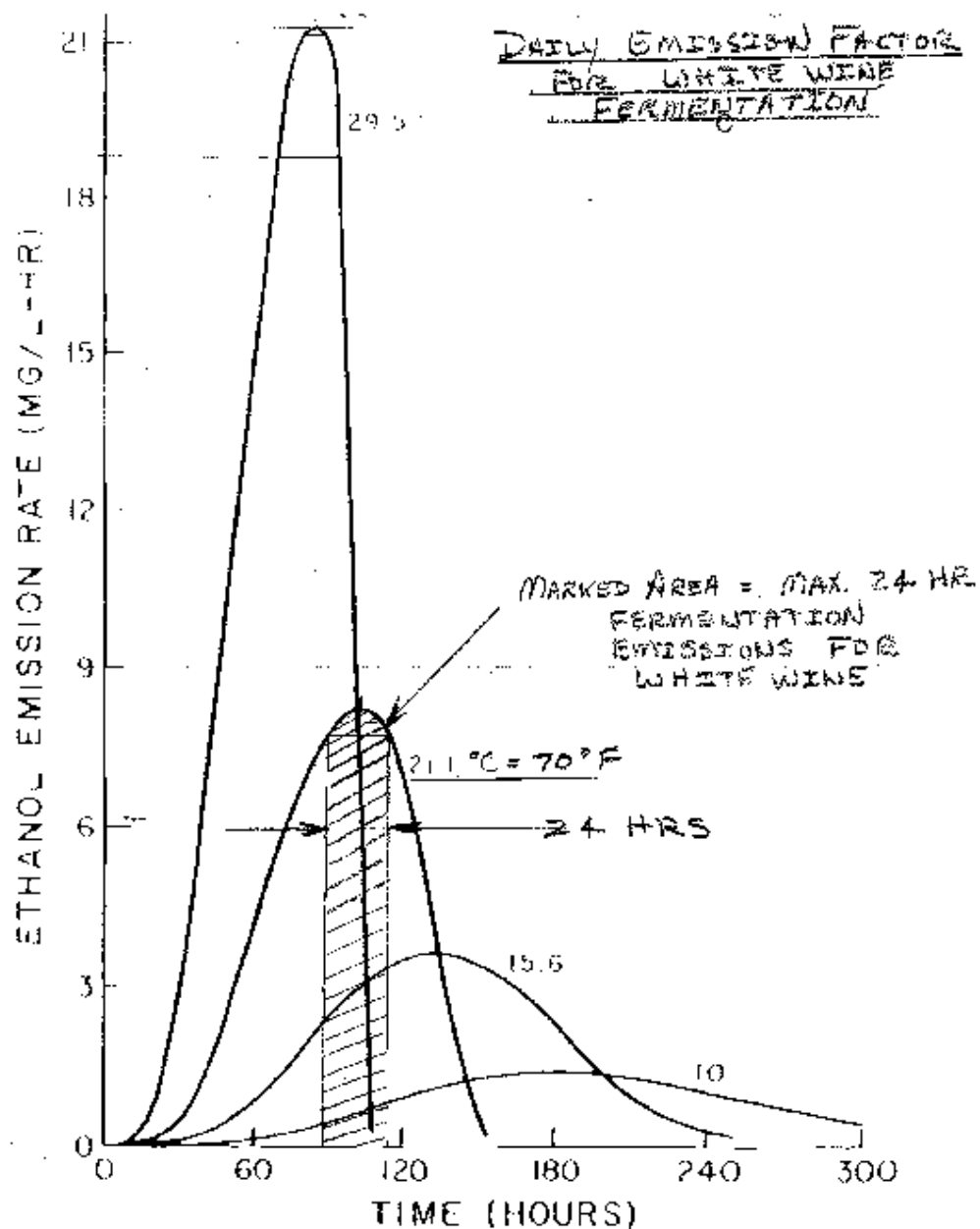


Fig. 7. The influence of fermentation temperature on: a) the fermentation rate, b) the vapor phase ethanol concentration, and c) the rate of ethanol emission. (Initial sugar content of 22.5°Brix, isothermal fermentation at indicated temperature.)

Appendix F
Compliance Certification Letter

McMANIS

FAMILY VINEYARDS

February 6, 2020

Mr. Nick Peirce
San Joaquin Valley Air Pollution Control District
4800 Enterprise Way
Modesto CA 95356-8718

Subject: Compliance Statement for McManis Family Vineyards

Dear Mr. Peirce:

In accordance with Rule 2201, Section 4.15, "Additional Requirements for New Major Sources and Federal Major Modifications," McManis Family Vineyards is pleased to provide this compliance statement regarding its proposed installation of 30 new wine storage tanks project N-1183142

All major stationary sources in California owned or operated by McManis Family Vineyards, or by any entity controlling, controlled by, or under common control with McManis Family Vineyards, and which are subject to emission limitations, are in compliance or on a schedule for compliance with all applicable emission limitations and standards. These sources include the following facilities:

Facility #1: McManis Family Vineyards
18700 East River Road
Ripon, CA 95366

Based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Please contact me if you have any questions regarding this certification.

Sincerely,



Justin McManis, Purchasing
McManis Family Vineyards

Appendix G

ERC Withdrawal Calculations

ERC Withdrawal Calculations

VOC	1 st Quarter (lb)	2 nd Quarter (lb)	3 rd Quarter (lb)	4 th Quarter (lb)
ERC S-5124-1	2,000	2,000	2,098	1,902
Offsets Required (Includes distance offset ratio)	283	283	284	284
Amount Remaining	1,717	1,717	1,814	1,618
Credits reissued under ERC S-YYYY-1	1,717	1,717	1,814	1,618