

California Regional Water Quality Control Board
North Coast Region

Order No. R1-2000-46
ID No. 1B98079RSON

Waste Discharge Requirements
for
De Loach Vineyards 2120 Crush Facility
2120 Olivet Road, Santa Rosa

Sonoma County

The California Regional Water Quality Control Board, North Coast Region, (hereinafter the Regional Water Board) finds that:

1. Jim McMinn, V.P. Ranch Operations on behalf of De Loach Vineyards, Inc. (De Loach Vineyards, Inc. is hereinafter referred to as discharger) submitted a Report of Waste Discharge dated September 22, 1998. The report describes the proposed sanitary and industrial process wastewater treatment systems. Supplemental information to complete filing of the application was submitted on May 19, 1999.
2. The discharger proposes to construct and operate a new wine production facility located at 2120 Olivet Road, Santa Rosa within the Russian River drainage basin. The property is located at latitude N 38 28' 23" and longitude W 122 48' 38" within the Santa Rosa quadrangle as shown on Attachment "A".
3. The discharger anticipates production to be 150,000 cases of wine per year. The discharger anticipates industrial wastewater flows will average 4,900 gallons per day in a calendar month. During the grape crush, industrial wastewater flows will average 9,600 gallons per day and will peak at up to 13,400 gallons per day. Industrial wastewater consists primarily of washwater from the wine making process and related cleanup activities.
4. Industrial wastewater will be collected at a lift station and transferred via a forced main to the treatment facility. Wastewater flows in this force main will be measured ahead of the rotating drum screen for solids removal prior to discharge into a series of four treatment, storage, and evaporation ponds (Attachment "B"). The treatment pond system is proposed to consist of two 135,000 gallon aerated ponds, a 60,000 gallon settling pond and a 5 million gallon storage reservoir. Treated wastewater will be disposed of by frost protection and irrigation methods on 81 acres of existing vineyards, landscape, and pond evaporation. The discharger has prepared a water balance to evaluate the storage and irrigation capacity of the system. Based on 10-year high rainfall conditions and the application ratio of the disposal system, storage should be adequate for expected flow rates.
5. The discharger will utilize irrigation year round. To prevent runoff, no treated wastewater will be applied to the irrigation areas within two days of a forecasted rain event, during rainfall, 48 hours after a rainfall event or when soils are saturated. Irrigation/disposal operations will be routinely monitored to ensure against surface runoff and ponding.
6. Solid waste (pomace, stems, seeds, lees, etc.) from the wine making process will be

incorporated back into land under the control of the discharger.

7. Domestic waste collection, treatment and disposal will utilize an existing septic tank/mound system located adjacent to the proposed winery building site. A new septic tank and effluent pump is proposed to treat domestic waste from the new building and be connected to the existing mound system.
8. The Regional Water Board *Water Quality Control Plan for the North Coast Region* includes water quality objectives and receiving water limitations.
9. The beneficial uses of the Russian River and its tributaries include:
 - a. municipal and domestic supply
 - b. agricultural supply
 - c. industrial service supply
 - d. industrial process
 - e. groundwater recharge
 - f. navigation
 - g. hydropower generation
 - h. water contact recreation
 - i. non-contact water recreation
 - j. commercial and sport fishing
 - k. warm freshwater habitat
 - l. cold freshwater habitat
 - m. wildlife habitat
 - n. migration of aquatic organisms
 - o. spawning, reproduction, and/or early development
 - p. estuarine habitat
 - q. aquaculture
10. Beneficial uses of areal groundwaters include:
 - a. domestic water supply
 - b. agricultural water supply
 - c. industrial service supply
 - d. industrial process supply
11. A negative declaration was prepared and approved by the Sonoma County Board of Zoning Adjustments on March 25, 1999 to satisfy the requirements of the California Environmental Quality Act. The Regional Water Board has considered the negative declaration.
12. The Regional Water Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.
13. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.

14. The permitted discharge is consistent with the provision of State Water Resources Control Board Resolution No. 68-16 Statement of Policy with respect to Maintaining High Quality Waters in California. The impact on existing water quality will be insignificant.

THEREFORE, IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. The discharge of any waste not specifically regulated by this Order is prohibited.
2. Creation of a pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code (CWC), is prohibited. [Health and Safety Code, Section 5411]
3. The discharge of waste to land that is not under the control of the discharger is prohibited, except as authorized under C. SOLIDS DISPOSAL.
4. The discharge of untreated or partially treated waste from anywhere within the collection, treatment, or disposal facility is prohibited.
5. The discharge of waste to the Russian River, its tributaries, or any other surface waters is prohibited.
6. The discharge of domestic waste, treated, or untreated, to surface waters is prohibited.
7. The use of treated wastewater shall be restricted to designated vineyards, pastures, or landscape irrigation areas.
8. Treated wastewater shall not be applied to the irrigation areas within two days of a forecasted rain event, during rainfall, 48 hours after a rainfall event or when soils are saturated.

B. EFFLUENT LIMITATIONS

1. The discharge of treated wastewater to land by spray irrigation or frost protection shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Monthly Average</u> ¹	<u>Daily Maximum</u>
BOD (20° C, 5-day)	mg/l	50	80
Suspended Solids	mg/l	50	80
Settleable Solids	ml/l	0.2	1.0

¹ The mean of all samples collected in a calendar month.

2. The discharge of treated wastewater to land by method of drip irrigation shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Maximum</u>
BOD (20° C, 5-day)	mg/l	160
Suspended Solids	mg/l	80
Settleable Solids	ml/l	1.0

3. The mean daily flow of wastewater shall not exceed 4,900 gallons per day averaged over a calendar month except as provided for in B.4.
4. The mean daily wastewater flow shall not exceed 9,600 gallons per day as averaged over the crush period².
5. The maximum daily wastewater flow shall not exceed 13,400 gallons per day.
6. The dissolved oxygen concentration in the treatment/holding ponds shall not be less than 1.0 mg/l at any time.
7. The discharger shall maintain at least 2 feet of freeboard in the treatment/holding ponds.

C. SOLIDS DISPOSAL

1. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of at a legal point of disposal, and in accordance with the State Water Board promulgated provisions of Title 27, Division 2 of the California Code of Regulations or as waived pursuant to Section 13269 of the California Water Code.
2. Cultivated lands that receive solid wastes from the wine making process shall be managed to prevent ponding, runoff and erosion.
3. During wet weather conditions when solid wastes cannot be incorporated into the soil or hauled off-site for disposal, the solid wastes may be temporarily stored in a designated solids storage area out of the flood plain.
4. The discharge of leachate from solids storage areas or rainfall runoff which has come into contact with the solids being stored, to the Russian River or its tributaries is prohibited.

D. WATER RECLAMATION REQUIREMENTS

1. The use of treated wastewater that results in unreasonable use or waste of the treated wastewater is prohibited.

² The crush period is defined as the time of year during which the facility is processing the seasonal grape harvest. A typical crush period is 60 days in length and may occur from August through November.

2. The use of treated wastewater that creates a condition of pollution or nuisance is prohibited.
3. The discharger shall be responsible to insure that all users of treated wastewater comply with the terms and conditions of this Order.
4. Treated wastewater shall be applied in such a manner so as not to exceed vegetative demand or field capacity.
5. The application of treated wastewater shall be managed to prevent ponding, runoff, and erosion.
6. All piping, valves, and outlets shall be marked to differentiate treated wastewater from other sources of water.
7. There shall be no connection between a potable water supply and the treated wastewater distribution system.
8. There shall be no irrigation or impoundment of treated wastewater within 100 feet of any water well.
9. Adequate measures shall be taken to prevent the breeding of insects and other vectors of health significance.
10. Perimeter warning signs indicating use of non-potable water shall be posted at least every 500 feet with a minimum of a sign at each corner and access road.

E. PROVISIONS

1. A copy of this Order shall be maintained at the discharge facility and be available at all times to operating personnel.
2. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.
3. Operation and Maintenance

The discharger must maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.

4. Change in Discharge

The discharger must promptly report to the Regional Water Board any material change in the character, location, or volume of the discharge.

5. Change in Ownership

In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger must notify the succeeding owner or operator of the following items by letter, a copy of which must be forwarded to the Regional Water Board:

- a. existence of this Order, and
- b. the status of the dischargers' annual fee account

6. Vested Rights

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from his liability under federal, State, or local laws, nor create a vested right for the discharger to continue the waste discharge.

7. Monitoring

The discharger must comply with the Contingency Planning and Notification Requirements Order No. 74-151 and the Monitoring and Reporting Program No. R1-2000-46 and any modifications to these documents as specified by the Executive Officer. Such documents are attached to this Order and incorporated herein. Chemical, bacteriological, and bioassay analyses must be conducted at a laboratory certified for such analyses by the State Department of Health Services.

8. Inspections

The discharger shall permit authorized staff of the Regional Water Board:

- a. entry upon premises in which an effluent source is located or in which any required records are kept;
- b. access to copy any records required to be kept under terms and conditions of this Order;
- c. inspection of monitoring equipment or records; and
- d. sampling of any discharge.

9. Noncompliance

In the event the discharger is unable to comply with any of the conditions of this Order due to:

- a. breakdown of waste treatment equipment;
- b. accidents caused by human error or negligence; or
- c. other causes such as acts of nature;

the discharger must notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps being taken to prevent the problem from recurring.

10. Revision of Requirements

This Regional Water Board requires the discharger to file a report of waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge. The Regional Water Board will review this Order periodically and may revise requirements when necessary.

Certification

I, Lee A. Michlin, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on June 22, 2000.

Lee A. Michlin
Executive Officer