

California Regional Water Quality Control Board
North Coast Region

ORDER NO. 99-67
ID NO. 1B810190SON

WASTE DISCHARGE REQUIREMENTS

FOR

THE BARLOW COMPANY

AND

THE CITY OF SEBASTOPOL

Sonoma County

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

1. The Barlow Company (hereinafter discharger) submitted a Report of Waste Discharge Form 200 dated June 25, 1998, for renewal of its Waste Discharge Requirements. Supplemental information to complete the filing of the application was submitted on October 20, 1998. The discharger has paid an annual fee as per section 2200 of Subchapter 9 of the California Code of Regulations and, therefore, is not required to submit a separate filing fee.

2. The discharger operates an established apple cannery located at 200 Morris Street in Sebastopol. The cannery generates a maximum 100,000 gallons per day and an average 50,000 gallons per day of industrial wastewater consisting primarily of washwater and cooling water. Wastewater is treated and disposed of utilizing facilities located adjacent to the Laguna de Santa Rosa, tributary to the Russian River, in the E 1/2 Section 35 and the W 1/2 of Section 36, T7N, R9W, MDB&M, as shown on the Sebastopol quadrangle Attachment "A."

3. The proposed wastewater treatment facilities consist of solids screening, a Hoffman filter belt, bacterial fermentors, a biological flotation device (BFD), an aerobic digester, and a clarifier. A schematic of the proposed treatment facilities is included as Attachment "B."

4. Disposal will either be irrigation on 41 acres of a 56-acre parcel of land located on the east side of the Laguna de Santa Rosa or to the sanitary sewer. The irrigation field has a containment/recycle system that captures and returns any runoff to the irrigation field. During periods when the effluent irrigation field cannot be used (flooding, wet weather saturation), treated effluent from the Barlow Company will be discharged to the regional municipal wastewater treatment system operated by the City of Santa Rosa.

5. The discharger may utilize irrigation year round depending on weather and field conditions. To prevent runoff, no treated wastewater shall be applied to the irrigation areas within two days of a rainfall event (which has been forecasted by the national weather service) that is reasonably expected to produce runoff, 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.

5. The treatment facilities will be operated in a two-tiered operating scheme. Tier 1 will utilize all the unit processes described in Finding 3 to their utmost capability. Tier 2 will utilize all the unit processes described in Finding 3 except that the air supply to the aeration tanks will be terminated to conserve power. The two-tiered operating scheme will produce two distinct effluents in regards to the quality. Tier 1 effluent (higher quality, less strength) will be disposed of to the sanitary sewer while

Tier 2 effluent (lower quality, higher strength) will be irrigated. The new treatment facilities and the tiered operating scheme were designed to increase the quality of the effluent, as compared to the present system, and to reduce the sewer fees during times when irrigation is not possible (Tier 1 operational mode). The new operational scheme will also eliminate the use of the storage ponds, except during emergencies, and will significantly reduce the potential of a discharge from those ponds. B. Effluent Limitations defines the Tier 2 effluent as the minimum treatment required.

6. The treatment system described in Finding 3 is a new treatment method and may be subject to operational challenges as well as fine tuning of system components. The treatment system, as proposed, may not achieve the effluent quality detailed in the Report of Waste Discharge at startup. The discharger has requested that the treatment system be allowed to operate in a trial mode until the treatment system's reliability can be established. A six month trial mode is appropriate considering: 1) the complexity of the new treatment system, 2) the first six months after permit adoption will be during the winter of 1999/2000 and effluent will be directed to the sanitary sewer during this time frame, 3) the efforts made by the discharger, and 4) the potential increase in effluent quality between the previous treatment system and the system described in Finding 3.

7. The City of Sebastopol (hereinafter City) owns the lift station and the piping infrastructure necessary to transport the treated effluent underneath the Laguna de Santa Rosa and to the irrigation field as well as the effluent irrigation field. The discharger has a use agreement with the City for the exclusive use of these facilities.

8. The City also has an agreement with the City of Santa Rosa to accept up to five million gallons of treated effluent annually from the regional wastewater treatment and disposal system. The effluent is spray irrigated on the industrial disposal site between May and August each year.

9. The City also owns two storage ponds, Pond 3 and Pond 4, which are below the 100-year flood plain and which have been used by the discharger in recent years. The discharger has an agreement for the exclusive use of Pond 3 only. However, the discharger's Report of Waste Discharge states the pond will only be used during emergency conditions. Regional Water Board staff will be notified prior to the use of the emergency storage pond.

10. Domestic waste from the employee restroom facilities is disposed of utilizing the Santa Rosa sub-regional municipal wastewater treatment system (sanitary sewer).

11. Solid waste byproducts from the apple processing operation are hauled off site for disposal.

12. The Regional Water Board Water Quality Control Plan for the North Coast Region includes water quality objectives and receiving water limitations.

13. The beneficial uses of the Laguna de Santa Rosa include:

- a. agricultural supply
- b. industrial service supply
- c. water contact recreation
- d. non-contact water recreation
- e. commercial and sport fishing
- f. cold freshwater habitat
- g. wildlife habitat
- h. aquacultural

14. Beneficial uses of areal groundwaters include:

- a. domestic water supply

- b. agricultural water supply
- c. industrial service supply
- d. industrial process supply

15. The discharge is presently governed by Waste Discharge Requirements Order No. 88-82, adopted by the Regional Water Board on June 23, 1988

16. Due to violations of Waste Discharge Requirements, Order No. 88-82, the Barlow Company was required to submit a schedule for the Barlow Company to design, construct and implement an adequate wastewater treatment facility. The Barlow Company submitted the required schedule on February 27, 1998. The first two items of the submitted schedule were to develop and submit a design report and site plan for the Barlow Company's wastewater treatment system. The design report, site plan and the Form 200, Application for Waste Discharge, constitute the Report of Waste Discharge that was submitted.

17. In accordance with the submitted schedule and as detailed in Section E. COMPLIANCE SCHEDULE the Barlow Company's wastewater treatment facility will be operational on or before November 1, 1999. The Barlow Company is required to meet the effluent limitations detailed in Section B. EFFLUENT LIMITATIONS on or before May 1, 2000. Should the new treatment system not meet effluent limitations during the six-month trial period this permit may be re-evaluated.

18. This project consists of the operation or minor alteration of an existing facility which involves minimum expansion or change in use beyond that previously existing, and is, therefore, exempt from the requirements of the California Environmental Quality Act under Section 15301 of the Resources Agency Guidelines.

19. The permitted discharge is consistent with the antidegradation provision of State Water Resources Control Board Resolution No. 68-16. The impact on existing groundwater quality will be insignificant.

20. 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.

21. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.

THEREFORE, IT IS HEREBY ORDERED that Waste Discharge Requirements Order No. 88-82 are rescinded and 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 waste from anywhere within the collection, treatment, storage, or reclamation facility is prohibited.

5. The discharge of waste from the Barlow Company Wastewater Treatment Facility to the Laguna de Santa Rosa is prohibited.

6. The discharge of domestic waste, treated or untreated, to surface waters is prohibited.

7. The reclamation of treated wastewater shall be restricted to pasture land designated in Attachment "A."

8. The discharge of wastewater or treated effluent to any storage pond other than Pond 3 is prohibited. Pond 3 shall only be utilized when the discharger can not discharge to the sanitary sewer. The discharger shall notify Regional Water Board staff within 24 hours of the use of Pond 3. Pond 3 is depicted in Attachment "A."

B. EFFLUENT LIMITATIONS

1. Beginning May 1, 2000, representative samples of the discharge after treatment and prior to irrigation shall not contain constituents in excess of the following limits:

Constituent	Monthly Unit	Daily Averagea mean	Maximum
BOD (20° C, 5-day)		mg/l 210	300
Suspended Solids		mg/l 230	300
Settleable Solids		ml/l 0.2	1
Hydrogen Ion	pH	Not less than 6 nor greater than 9	

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

2. The mean daily flow of waste shall not exceed 50,000 gallons per day averaged over a calendar month.

3. The maximum daily wastewater flow shall not exceed 100,000 gallons per day.

4. The discharge shall maintain at least 2 feet of freeboard in the wastewater or effluent pond when the emergency pond is being used for wastewater or effluent storage.

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.

2. Cultivated lands that receive solid wastes from the Barlow Company 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 reclaimed water that results in unreasonable waste of water is prohibited.

2. The use of reclaimed water that creates a condition of pollution or

nuisance is prohibited.

3. The discharger shall be responsible to insure that all users of reclaimed water comply with the terms and conditions of this Permit.

4. Reclaimed water 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 reclaimed water from other sources.

7. There shall be no connection between a potable water supply and the reclaimed water distribution system.

8. There shall be no irrigation or impoundment of reclaimed water 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 reclaimed water use shall be posted at least every 500 feet with a minimum of a sign at each corner and access road.

E. COMPLIANCE SCHEDULE

1. Due to violations of Waste Discharge Requirements, Order No. 88-82, the Barlow Company was required to submit a schedule for the design, construction and implementation of an adequate wastewater treatment facility.

2. The Barlow Company submitted the required schedule on February 27, 1998. The following tasks were completed prior to the adoption of this permit:

- a. Submittal of Report of Waste Discharge, Design Report and Site Plan to the Regional Water Board
- b. Purchase of Industrial Wastewater Treatment Equipment
- c. Submittal of Construction Related Documents to the Regional Water Board
- d. Obtained all necessary construction permits.

3. The discharger shall comply with the following tasks on or before the associated date.

Task	Completion Date
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Complete Construction & Facility Startup	November 1, 1999
Facility Acceptance by the Barlow Company	February 1, 2000
Submittal of Operation and Maintenance Manual	November 1, 1999
Compliance with Section B. Effluent Limitations	May 1, 2000

F. 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. Storage Pond Operation

A. During times of use, the emergency storage pond (Pond 3) shall be inspected for leaks on a daily basis. Any leak shall be repaired and reported to the Executive, forthwith. If any leak can not be repaired within 24 hours of leak detection the stored wastewater shall be removed from the storage pond forthwith.

B. The emergency storage pond shall be emptied of wastewater prior to any flood event. Pond 3 shall not be utilized during times of inundation from the Laguna de Santa Rosa.

5. Runoff Control Operation

A. Any runoff contained in the runoff control ditch shall be pumped back to the reclamation field. The runoff control ditch shall be maintained to maximize its detention capacity.

6. 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.

7. 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 discharger s' annual fee account

8. 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.

9. Monitoring

The discharger must comply with the Contingency Planning and Notification Requirements Order No. 74-151 and the Monitoring and Reporting Program No. 99-67 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.

10. 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.

11. 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.

12. 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.

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 September 23, 1999.

Lee A. Michlin
Executive Officer

(Barlow Company Waste Discharge Requirements 99-__.doc)

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