CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 96 - 081

WASTE DISCHARGE REQUIREMENTS FOR:

DUFFY'S MYRTLEDALE, CALISTOGA, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board), finds that:

1. Duffy's Myrtledale, Inc. (hereinafter also called the discharger) is a state-licensed alcohol rehabilitation facility located at 3076 Myrtledale Road in the City of Calistoga. Wastewater generated at the discharger's facility is treated and disposed through on-site wastewater systems which involve the discharge of waste to land.

2 The discharger's wastewater systems consist of the following:

   a. Wastewater Pond System.
   This system includes four septic tanks in series - one 810-gallon and three 1500-gallon capacity tanks; a septic tank effluent pump and distribution force main; a 1.25 million gallon treatment/holding pond (pond #1); an evaporation pond (pond #2); and a 4-acre pond effluent disposal field. This system serves the main facility building (which includes 5 small offices, 8 bedrooms, the main kitchen and dining area); an executive office/lounge building; and a 4-bedroom dormitory building.

   b. Septic Tank/Leachfeld System.
   This system consists of two septic tanks, one 810 gallon capacity and one 1200 gallon capacity, and a conventional subsurface leachfield with a capacity of 1000 gallons per day. This system serves an 8-bedroom dormitory, a 5-bedroom employee quarters, and a 2-bedroom mobile home manager's quarters.

3 The wastewater pond system and discharges are presently regulated by waste discharge requirements as Board Order No. 84-57, adopted on September 19, 1984. The purpose of this Order is to prescribe updated waste discharge requirements and rescind Order 84-57. The septic tank and leachfield system is regulated separately by the Napa County Environmental Health Division.

4. The Discharger submitted a Report of Waste Discharge, dated January 2, 1992, for updating and reissuance of waste discharge requirements.

5. Facility Location and Layout. The Napa River flows through the discharger's property. The facility buildings are located on the west side of the river. The wastewater ponds and disposal field are located on the east side of the river, at the northeast property corner. The leachfield is located within a 2 acre area at the southwest property corner. A map showing the facility and wastewater systems is included as Attachment A of this Order.

6. Wastewater Flows. Design wastewater flows for the pond system, as reported by the discharger, are as follows:

Summer:	Typical	(May, June, Aug)	1858 gallons per day (gpd)
	Peak	(July)	2608 gpd
Winter:	Typical	(Nov - Feb)	1100 gpd
	Peak	(Sept, Oct; March, April)	1600 gpd
Annual wastewater flow:			582,000 gallons

7. Wastewater Pond Characteristics, as reported by the discharger, are as follows::

Pond	Depth (feet)	Surface Area * (square feet)	Volume * (million gallons)
1	12	31,000	1.250
2	2.5	23,000	0.089

* water surface area and volume shown are for 2 feet of freeboard remaining, (ie, water depth of 10 feet and 0.5 foot, respectively).

8. Wastewater Pond Operations:

a. Wastewaters generated from the main facility building (including the main kitchen), the office/lounge building and the dormitory building receive primary treatment through four septic tanks in series (an 810 gallon tank, then three 1500 gallon tanks). The fourth tank also serves as a pump chamber, with a submersible pump for pumping septic tank effluent to the ponds. The septic tanks are routinely serviced by a commercial septic tank pumper, typically four times per year.

b. Effluent from the septic tanks is pumped to Pond 1. When Pond 1 water depth reaches 9 feet, effluent from Pond 1 flows by gravity to Pond 2 via an overflow pipe between the two ponds.

c. During the dry weather season, wastewater is disposed by surface evaporation from both ponds, and by spray irrigation to the adjacent four-acre spray disposal field. During the wet weather season, October through February, all wastewater is contained in the ponds.

d. A water balance for the pond system operation was submitted as part of a design report for the system dated August 19, 1983 prepared by the discharger's consultant, Summit Engineering, Inc. The water balance demonstrates the system is capable of storing and disposing of a design wastewater flow of 582,000 gallons per year, plus rainfall of a 10-year wet weather season ('10-year' rainfall = 52.5 inches; mean annual rainfall = 37.5 inches), while maintaining two feet of freeboard in Pond #1.

9. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on June 21, 1995. This updated and consolidated plan is the Board's master water quality control planning document. The revised plan was approved by the State Water Resources Control Board and the Office of Administrative Law on July 20 and November 13, 1995 respectively. A summary of regulatory provisions is in the California Code of Regulations, Title 23, Section 3912.

10. This Order implements the provisions and objectives of the Basin Plan.

11. The Basin Plan defines beneficial uses and water quality objectives for waters of the State within the San Francisco Bay Region, including surface and ground waters.

12. a. The beneficial uses identified in the Basin Plan for the Napa River include:

    1. Municipal and Domestic Supply
    2. Fresh Water Replenishment (of surface and ground waters)
    3. Water Contact Recreation
    4. Non-contact Water Recreation
    5. Cold Fresh Water Habitat
    6. Wildlife Habitat
    7. Fish Migration and Spawning

    b. The beneficial uses identified in the Basin Plan for ground water in the Napa Valley area include:

    1. Municipal Supply
    2. Industrial Process Water Supply
    3. Industrial Service Supply
    4. Agricultural Supply.

13. This project involves the operation of existing privately-owned sewage treatment and disposal facilities with negligible expansion of use beyond that previously existing, and as such is exempt from the provisions of the California Environmental Quality Act (CEQA) in accordance with California Code of Regulations, Title 14, Section 15301.

14. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe water reclamation requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit written views and recommendations.

15. The Board, in a public hearing, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Discharger, Duffy's Myrtledale, Inc., pursuant to the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Prohibitions

1. The collection, treatment, storage, distribution or disposal of wastewater shall not create a pollution or nuisance as defined in Sections 13050 (l) and (m), respectively, of the California Water Code.

2. The bypass or overflow of untreated or partially wastewater to waters of the State from the Discharger's wastewater collection, treatment, storage, distribution or disposal facilities is prohibited.

3. The discharge of wastewater shall not degrade the quality of any groundwater suitable for domestic use, or cause an increase in any quality parameter that would make groundwater unsuitable for irrigation use.

4. Wastewater discharged to the wastewater pond system shall not exceed the design flows identified in Finding 6 of this Order.

B. Water Quality Specifications

1. Pond Water. Water in the wastewater ponds shall meet the following quality limits at all times, within one foot of the water surface, in any grab sample:

a. Dissolved Oxygen	2.0 mg/l,	minimum
b. Dissolved Sulfides	0.1 mg/l,	maximum
c. pH	6.0,	minimum; and
	9.0,	maximum (*).

(*) Short term diurnal exceedances of pH 9.0 which are due to natural conditions such as high photosynthetic activity are acceptable.

2. Pond Effluent. Pond effluent discharged to the wastewater disposal field shall meet the following quality limits at all times, in any grab sample:

a. Settleable Solids	0.5 milliter/liter-hour,	maximum
b. Dissolved Oxygen	2.0 mg/l,	minimum.
c. Dissolved Sulfides	0.1 mg/l,	maximum.

C. Wastewater Pond Specifications

1. To prevent the threat of overflows, a minimum freeboard of two (2) feet shall be maintained in the wastewater ponds at all times.

2. The wastewater ponds shall be adequately protected from erosion, washout, and flooding from a rainfall event having a predicted frequency of once in 100 years.

3. The public shall be effectively excluded from the wastewater ponds.

4. Warning signs shall be posted around the wastewater ponds to inform the public that the water contained therein is wastewater which is not safe for drinking or contact. Warning signs shall be conspicuous and clearly readable. Signs shall be posted at adequate intervals around each pond, with at least one sign posted along each linear boundary of each pond.

D. Wastewater Disposal Field Specifications

1. The discharge of wastewater to the wastewater disposal field shall be discontinued during any period when there is reason to believe that the limits specified in B.2. above are not being met. The discharge of wastewater shall not be resumed until all conditions which caused the limits to be violated have been corrected.

2. Discharge of wastewater from the wastewater ponds shall be limited to the wastewater disposal field as identified in this Order. This authorized disposal area is identified as the 'Wastewater Disposal Area' in the site map included as Attachment A of this Order.

3. Discharge to the wastewater disposal field shall be limited to the period of April 1 through October 30, unless prior written approval is obtained from this Board's Executive Officer.

4. Discharge of wastewater to the wastewater disposal field shall be conducted in a manner which will prevent public contact with the wastewater. The public shall be effectively excluded from the wastewater disposal area.

5. Wastewater shall not be allowed to escape from the wastewater disposal field by either surface flow or airborne spray.

6. Wastewater shall not be applied within 100 feet of any stream, well, housing facility or public use area.

7. Wastewater shall not be used for irrigation of crops for human consumption.

8. Milking animals are prohibited from grazing within the wastewater disposal field area.

9. Wastewater disposal shall be managed so as to prevent odors or nuisance conditions, to prevent runoff, and to prevent ponding or saturated grounds which could provide breeding conditions for mosquitos or other vectors of public health significance.

D. Wastewater Disposal Field Specifications (continued)

10. Wastewater shall not be applied to the wastewater disposal field under any of the following conditions:
    (a) during rainfall, or
    (b) when rainfall is expected to occur within 24 hours, or
    (c) when soils are saturated such that ponding or runoff is likely to occur.

11. Warning signs shall be posted around the wastewater disposal field area to inform the public that the water in use is wastewater which is not safe for drinking or contact. Warning signs shall be conspicuous and clearly readable. Signs shall be posted at adequate intervals around the field, with at least one sign along each linear boundary of the wastewater disposal field.

E. Wastewater System Specifications - General

1. All equipment, including pumps, piping, valves, storage ponds etc., which may at any time contain wastewater, shall be adequately and clearly identified with warning signs to inform the public that the liquid contained is wastewater which is unfit for drinking or contact.

2. 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 provisions of Chapter 15 of Title 23 of the California Code of Regulations. For the purpose of this requirement, a legal point of disposal is defined as one for which waste discharge requirements have been prescribed or waived by a Regional Water Quality Control Board and which is in full compliance therewith.

F. Provisions

1. The Discharger shall comply with all sections of this Order immediately upon adoption.

2. The Discharger shall comply with the Self-Monitoring Program for this Order, as adopted by the Board and as may be amended by the Executive Officer.

3. The Discharger shall maintain in good working order and operate, as efficiently as possible, any and all components of the wastewater system addressed by this Order.

4. In the event the Discharger is unable to comply with any condition of this Order due to:
    a. Breakdown of wastewater transport or treatment equipment;
    b. Accidents caused by human error or negligence; or
    c. Other causes such as acts of nature,

    the Discharger shall notify the Board in accordance with the reporting procedures specified in the Self-Monitoring Program for this Order.

5. The Discharger shall permit the Board or its authorized representatives, in accordance with Section 13267(c) of the California Water Code:

   a. Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;

   b. Access to and copy of, at reasonable times, any records that must be kept under the conditions of this Order;

   c. Inspection, at reasonable times, of any facility (including monitoring and control equipment), practices, or operations regulated or required under this Order; or

   d. To photograph, sample or monitor, at reasonable times, for the purpose of assuring compliance with this Order.

6. In the event of any change in control or ownership of land or waste discharge facilities regulated by this Order, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to this Board.

7. The Discharger shall notify the Board, in writing, at least 60 days before making any material change in the character, location, or volume of the wastewater treatment or disposal practices regulated by this Order, except for emergencies, in which case the Board shall be notified as soon as possible.

8. After notice and opportunity for a hearing, this Order may be terminated or modified for cause including, but not limited to:

   a. Violation of any term or condition contained in this Order;

   b. Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts;

   c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized reuse; or

   d. Endangerment to public health or environment that can only be regulated to acceptable levels by Order modification or termination.

9. The Board will review this Order periodically and may revise the requirements as necessary to comply with changing State and Federal laws, regulations, policies, or guidelines; changes in this Regional Board's Basin Plan; or changes in the discharge characteristics.

10. The waste discharge requirements prescribed by this Order supercede those prescribed by this Board's Order No. 84-57. Order No. 84-57 is hereby rescinded.

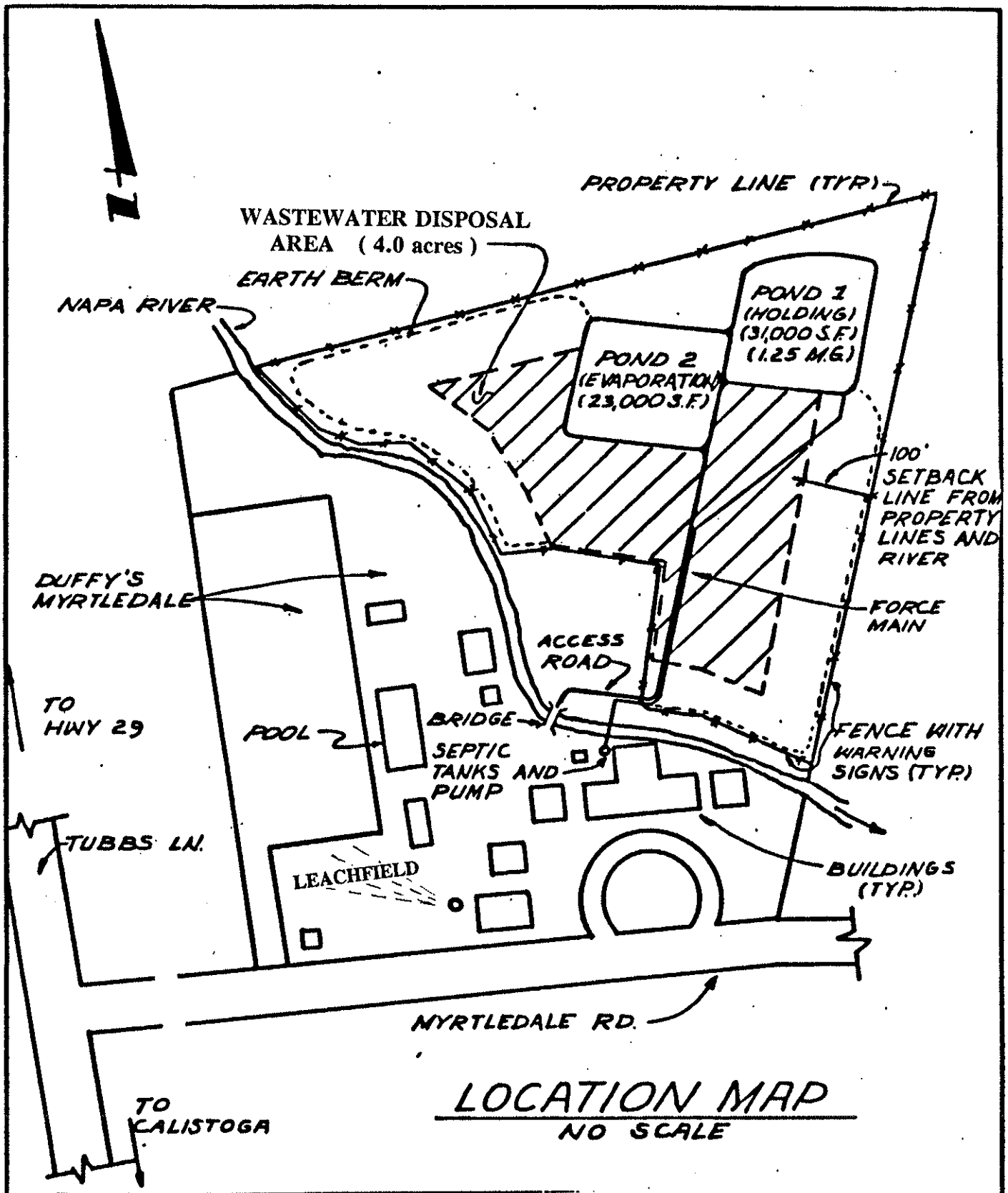
I, Loretta K. Barsamian, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on: June 19, 1996 .

Loretta K. Barsamian

LORETTA K. BARSAMIAN
Executive Officer

Attachments:
A. Wastewater System Map
A2. Facility Buildings & Wastewater System Map
Self-Monitoring Program

[File No. 2139.3008]
[Originator/BDA]
[Reviewer/GHW]

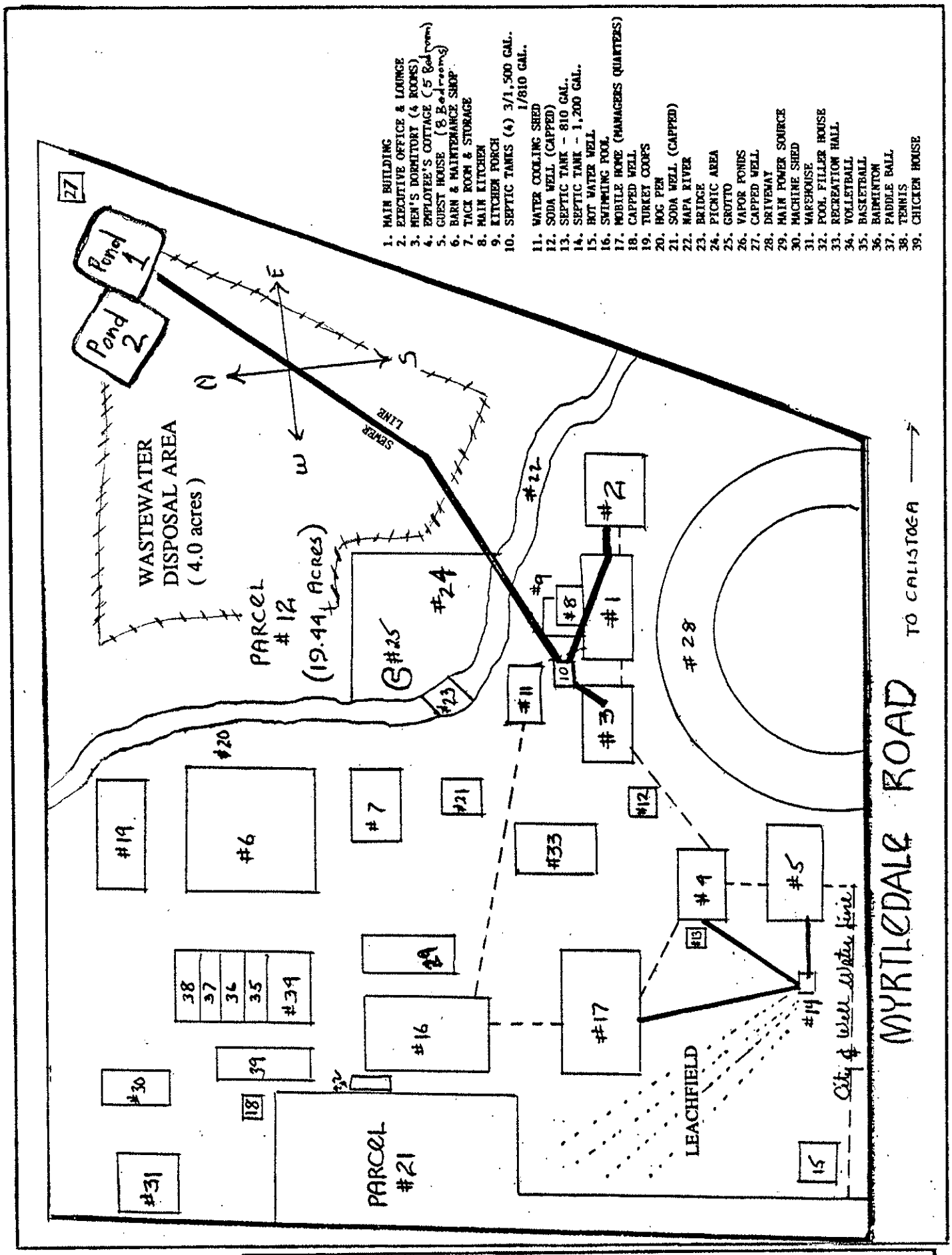


LOCATION MAP
NO SCALE

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

DUFFY'S MYRTLEDALE
WASTEWATER SYSTEM MAP
Order No. 96-081, Attachment A

DRAWN BY:	DATE: 7/84	DRWG. NO.



DUFFY'S MYRTLEDALE: FACILITY BUILDINGS AND WASTEWATER SYSTEM MAP

Order No. 96-081, Attachment A 2

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

DUFFY'S MYRTLEDALE
CALISTOGA, NAPA COUNTY

(For Waste Discharge Requirements, Order No. 96 - 081)

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I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principle purposes of a monitoring program by a waste discharger or reclaimed water user, also referred to as a self-monitoring program, are:

1. To document compliance with waste discharge or water reclamation requirements established by this Regional Board; and

2. To facilitate self-policing by the discharger and/or reclaimed water user in the prevention and abatement of pollution arising from waste discharge or reclaimed water use.

II. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DOHS), or a laboratory waived by the Executive Officer from obtaining a DOHS certification for these analyses.

The director of the laboratory whose name appears on the certification, or his/her laboratory supervisor who is directly responsible for the analytical work performed shall supervize all analytical work including appropriate quality assurance/quality control procedures in his/her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

III. DEFINITION OF TERMS

A. A grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples represent only conditions existant at the time of sampling.

B. Flow measurement is the accurate measurement of the flow volume over a given period of time using a properly calibrated and maintained flow measuring device. Flows calculated from properly maintained pump useage records for an accurately calibrated pump, or by means of a pump dose counter are acceptable.

C. Freeboard is defined as the vertical distance between the water surface and the lowest elevation of the top of the water impoundment containment (perimeter levee or berm).

D. Standard Observations

1. Pond Perimeter Area

(a) Seepage or Overflow.
Check for evidence of seepage through pond levees, or overflow out of the ponds.

(b) Nuisance Odors.
Check for presence of nuisance odors from the wastewater ponds.

(c) Warning Signs.
Check to see that warning signs are properly posted (ie, signs that inform the public that water contained therein is wastewater which is not safe for drinking or contact).

2. Wastewater Disposal Field Area, and Perimeter

(a) Offsite Runoff or Spray Drift.
Check for presence or evidence of wastewater escaping beyond the perimeter of the defined wastewater disposal area through surface runoff or airborne spray.

(b) Nuisance Odors.
Check for presence of nuisance odors from the wastewater disposal area.

(c) Warning Signs.
Check to see that warning signs are properly posted (ie, signs that inform the public that water contained therein is wastewater which is not safe for drinking or contact).

(d) Wastewater Ponding
Check for presence or evidence of ponding of wastewater.

(e) Mosquito Breeding
Check for presence or evidence of mosquitoes breeding within the disposal area, such as due to ponded water.

IV. DESCRIPTION OF SAMPLING AND OBSERVATION STATIONS

NOTE: A map or sketch of the facility site showing the locations of all stations described below shall accompany the first monitoring report following adoption of this Self-Monitoring Program, and subsequent reports when station locations are changed or a violation is reported.

A. Pond Influent

At a point in the wastewater system where all wastewater discharged into the wastewater ponds is present. This sampling point shall be suitable for measuring the total volume of wastewater discharged into the pond system.

B. Pond Water (Pond #1 and Pond #2)

At any point in each wastewater pond, within one foot of the water surface, representative of the wastewater contained in the pond.

C. Pond Effluent

At a point in the wastewater pond system where all wastewater discharged out of the wastewater ponds to the wastewater disposal field is present. This sampling point shall be suitable for measuring the total volume of wastewater discharged from the pond system to the wastewater disposal field.

D. Pond Freeboard

A point within each pond, for measuring freeboard.

E. Pond Perimeter

Points along the pond levees, at least one point per pond, for standard observations.

F. Wastewater Disposal Field Perimeter

Points along the perimeter of the wastewater disposal field area, about 500 feet apart, for standard observations.

V. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

The Discharger is required to perform sampling, analyses and observations according to the following schedule:

SAMPLE STATION	PARAMETER	UNITS	FREQUENCY	NOTES
A. Pond Influent	Flow Volume	gallons	Monthly	(1)

(1) All wastewater discharged into the ponds shall be monitored by flow measurement. For each calendar month, report the total volume of wastewater discharged into the ponds.

B. Pond Water (Pond #1 and Pond # 2)	Dissolved Oxygen	mg/L	Monthly	(2)
	Dissolved Sulfide	mg/L	If D.O. < 2.0 mg/L	(2)
	pH	pH	Monthly	

(2) If Dissolved Oxygen (D.O.) concentration is found to be less than 2.0 mg/L, then:
   a. Frequency of sampling and analysis shall be increased to twice per week; and
   b. Samples shall also be analyzed for Dissolved Sulfide.
   c. Sampling twice per week shall continue until D.O. is greater than or equal to 2.0 mg/L.

C. Pond Effluent	Settleable Solids	mg/L-hr	Weekly, when discharging	(3)
	Discharge Days	dates	When discharging	(4)
	Flow Volume	gallons	Monthly	(5)

(3) Grab sample, once per calendar week, during each week when effluent is discharged to disposal field.
(4) Record and report all dates when discharges of pond efluent to the disposal field occur.
(5) All wastewater discharged from the ponds to disposal field shall be monitored by flow measurement. For each calendar month, report the total volume of wastewater discharged from the ponds.

D. Pond Freeboard	Freeboard	feet	Twice per month	(6)
E. Pond Perimeter	Standard Observations		Twice per month	(6)
F. Disposal Field and Perimeter	Standard Observations		Twice per month, when disposal field is in use.	(6)

(6) Two times per calendar month, with approximately two week intervals between observation dates.

VI. REPORTS TO BE FILED WITH THE REGIONAL BOARD

A. Self-Monitoring Reports.

The Discharger shall routinely submit to the Regional Board self-monitoring reports documenting the wastewater system operation and performance, and compliance with the waste discharge requirements, in accordance with the following:

1. Report Schedule

   a. Written reports shall be filed for each calendar quarter.

   b. The reports shall be submitted to this Regional Board's office by the fifteenth day of the month following the monitoring period.

2. Letter of Transmittal

   A letter of transmittal shall accompany each monitoring report submitted.
   The transmittal letter shall include the following:

   a. Identification of:

      (1) The Discharger's facility by name, and address;
      (2) The name and telephone number of a person familiar with the report and wastewater system, for followup questions or discussions; and
      (3) The monitoring period being reported.

   b. Discussion of all requirement violations found during the reporting period, and corrective actions taken or planned, such as operation or facility modifications. If a report describing corrective actions and/or a time schedule for implementation of actions was previously submitted, reference to the report is satisfactory.

   c. A statement by the Discharger, or Discharger's authorized agent, under penalty of perjury, that to the best of the signer's knowledge the report is true, accurate and complete.

3. Results of Analyses and Observations. The report shall include the following:

   a. Tabulations of the results from all required analyses, measurements and observations specified in this Self-Monitoring Program, including identification of:

      (1) Date of sampling or observation;
      (2) Location of sampling or observation (sample station);
      (3) Parameter of analysis (eg, pH, Dissolved Oxygen, etc.); and
      (4) The result of the analysis, measurement or observation.

   b. Copies of laboratory analysis result reports for any sample analyses conducted by a contract laboratory.

4. Additional Reporting for Standard Observations:

   a. If any observation indicates a violation of waste discharge requirements (eg, seepage, overflow, odors, ponding, etc.), then the following information shall be recorded, and reported in the regular self-monitoring report:

      (1) Date and time of occurrence;

      (2) Location of occurrence. On a scaled plan drawing of the site, show the location of the problem and, if applicable, affected areas (eg runoff or spray drift plume area).

      (3) Description of the observed problem (see Descriptive Information, below); and

      (4) Corrective actions taken or planned to correct the problem.

   b. Descriptive Information, for reporting observed violation or problem.
      The following should be included when reporting an observed violation or problem:

      (1) For seepage or overflow: Report estimated volume, or flow rate.

      (2) For nuisance odors: Characterize the odor (eg, mild, strong, moldy, etc.);
      Report direction of travel (wind direction);
      Report estimated extent of odor travel offsite; and
      Note any offsite areas affected by the odors.

      (3) For disposal field runoff: Report estimated volume of runoff, or area of runoff plume.

      (4) For disposal field spray drift: Report wind direction and velocity; and
      Report distance from disposal field perimeter that spray drift travelled.

B. Report of Permit Violation

In the event the Discharger violates, or threatens to violate the conditions of the waste discharge requirements due to:

a. Maintenance work, power failure, or breakdown of wastewater system equipment;
b. Accidents caused by human error or negligence; or
c. Other causes such as acts of nature, then:

the Discharger shall notify the Regional Board office by telephone as soon as the Discharger or the Discharger's agents have knowledge of the incident.
Written notification shall be submitted within two weeks of the date of the incident, unless directed otherwise by Regional Board staff.
The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

I, Loretta K. Barsamian, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in the Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in **Regional Board Order No. 96 - 081**.

2. Is effective on the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Discharger, and revisions will be ordered by the Executive Officer.

Loretta K. Barsamian

LORETTA K. BARSAMIAN
Executive Officer

Effective Date: June 19, 1996

[File No. 2139.3008]
[Originator/ BDA]
[Reviewer/ GHW]