

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-74

REVISING ORDER NO. 81-57

WASTE DISCHARGE REQUIREMENTS FOR:

CASTLEWOOD COUNTRY CLUB AND
ALAMEDA COUNTY SERVICE AREA R-1967-1
PUBLIC WORKS AGENCY
COUNTY OF ALAMEDA
PLEASANTON, ALAMEDA COUNTY

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

1. The Board is amending Order No. 81-57 adopted by the Board on October 21, 1981 for the private sewage treatment system and on-site evaporation-percolation pond facilities owned and operated by Castlewood Country Club. In June 1980, the County of Alameda added sewer services to Alameda County Service Area R-1967-1 and assumed responsibility for the construction and operation of the proposed pump station and pipeline transport facilities for Castlewood's domestic wastewater to the West Pleasanton Interceptor. Castlewood Country Club and Alameda County Service Area R-1967-1, Public Works Agency, County of Alameda, are hereinafter both considered dischargers for the purposes of this Order.
2. The Board is amending the waste discharge requirements contained in Order No. 81-57 in order to: a) make waste discharge requirements consistent with the Board's 1982 Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) and b) establish a time schedule for terminating use of the private treatment and disposal system. Order No. 81-57 prescribed interim limitations with the intent that requirements would be reconsidered upon completion and submittal of a satisfactory facility plan and environmental impact report (EIR) as required by Order No. 81-57 and Cease and Desist Order No. 81-58.
3. Since 1977, Castlewood Country Club has stated its intent to terminate use of its antiquated sewage treatment and disposal facilities and has also joined the West Pleasanton Sewer Assessment District. However, there were delays in Castlewood's sewer connection due to local administrative and Clean Water Grant funding problems.

4. In June 1984, the County of Alameda on behalf of Castlewood Country Club received state and federal funding approvals for construction of pump station and pipeline connection to the existing West Pleasanton interceptor by April 30, 1986. The County is presently performing work in accordance with Step 3 of the Clean Water Grant Program (construction of Castlewood's sewer connection project) and is now negotiating sewer use agreements with the City of Pleasanton which owns, operates, and maintains the interceptor. Domestic wastewater will be treated by the Dublin San Ramon Services District and exported by LAVWMA to the East Bay Dischargers Authority's pipeline and deepwater outfall discharge in Central San Francisco Bay.
5. Castlewood Country Club presently treats and disposes of an average dry weather flow of 40,000 gpd of domestic sewage generated from approximately 149 residences and a country club. Design flow for the treatment facility is 35,000 gpd. Pond capacity is unknown. Two of the five existing evaporation-percolation ponds were constructed in 1981 to provide more storage capacity, to assure adequate freeboard at all times, and to reduce the threat of overflows from winter rains, as required by Cleanup and Abatement Order No. 77-2 and by Cease and Desist Order No. 81-58.
6. Treatment units consist of a comminutor, a primary sedimentation tank, and an aeration unit. Advanced primary-treated effluent is disposed of to five in-series evaporation-percolation ponds. Sludge is collected in a holding tank, which is vented to the air, and is periodically hauled to a regulated disposal site.
7. Castlewood Country Club's treatment and disposal facilities are located immediately adjacent to Arroyo de la Laguna. The facilities have had a long history of threatening water quality in the creek as a result of threatened pond overflows, threatened dike failures, and potential seepage although there have been no documented pond overflows or seepages in recent years. Furthermore, Cleanup and Abatement Order No. 77-2 and Cease and Desist Order No. 81-58 were issued to require adequate cooperation from Castlewood Country Club and to achieve compliance not otherwise obtainable.
8. The discharge has previously been governed by Resolution Nos. 136 and 446, Cleanup and Abatement Orders Nos. 78-23, 79-159 and 81-57, and Cease and Desist Order No. 81-58.

9. The Regional adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for Arroyo de la Laguna, Alameda Creek above Niles, and contiguous waters.
10. The beneficial uses of Arroyo de la Laguna, Alameda Creek above Niles, and contiguous waters are:

Water Contact Recreation
 Non-contact Water Recreation
 Wildlife Habitat
 Warm Fresh Water and Cold Fresh Water Habitats
 Fish Migration and Spawning
 Agricultural Supply
 Groundwater Supply
 Commercial and Sport Fishing

11. The Basin Plan contains additional specific surface and ground water quality objectives for the Alameda Creek Watershed above Niles, including Arroyo de la Laguna and contiguous surface waters, and for the Central Ground Water Basin, as follows:

SURFACE WATER QUALITY OBJECTIVES
(Alameda Creek and Tributaries)

TDS:	250 mg/l	90 day - arithmetic mean
	360 mg/l	90 day - 90th percentile
	500 mg/l	daily maximum
CHLORIDES:	60 mg/l	90 day - arithmetic mean
	100 mg/l	90 day - 90th percentile
	250 mg/l	daily maximum

GROUND WATER QUALITY OBJECTIVES

(Concentration not to be exceeded more than 10%
of the time during one year)

TDS: Ambient or 500 mg/l, whichever is lower
 Nitrate (NO-3): 45 mg/l

Waters designated for use as domestic or municipal water supply shall not contain concentration of chemicals in excess of natural concentration or the limits specified in California Administrative Code, Title 22, Chapter 15, particularly Tables 2, 3, 6, and 7.

Ambient ground water quality conditions beneath the site have been determined to be 746 mg/l TDS (total dissolved solids) and 1.2 mg/l Nitrate (NO-3) by Zone 7 of the Alameda County Flood Control and Water Conservation District (Zone 7) based on the 1983 U.S. Geological Study entitled "Land Application of Wastewater and Its Effect on Ground-Water in the Livermore-Amador Valley, Alameda County, California." Ambient conditions apply to the water bearing zone with the highest quality water.

12. Effluent limitations of this Order are based on the Basin Plan, State

Plans and policies, current plant performance, and best engineering judgment. The limitations are considered to be those attainable by best available technology, in the judgment of the Board.

13. Any overflow of treated waste effluent into Arroyo de la Laguna from Castlewood's evaporation-percolation ponds would cause degradation of the quality of the surface waters of Arroyo de la Laguna and Alameda Creek and of ground waters in the Niles Cone. The 1983 U.S. Geological Study has indicated that percolation of wastewaters has likely degraded local ground water total dissolved solids (TDS) quality (but not nitrate nitrogen quality) and may adversely affect the beneficial uses of the ground waters. Past problems with the capacity and integrities of dikes and levees of the ponds required adoption of Cleanup and Abatement Order No. 77-22 in December 1977 and Cease and Desist Order No. 81-58 in October 1981 to assure compliance.
14. Current on-site inspections have found that severe erosion and slumping of the streambank occurred during the period February to May 1985 due to high winter flows and debris accumulations in Arroyo de la Laguna. Streambank erosion has progressed to a state whereby the stability of ponds #3 and #2 are immediately threatened and the hydraulic stability of the remaining interconnected ponds are also threatened. Castlewood is currently implementing satisfactory temporary corrective measures, however, additional and more major measures will be necessary to prevent discharge to the creek if the use of the ponds is not terminated before the 1985-1986 wet season beginning in October 1985. The Board considers this an emergency situation necessitating expediency in construction of transport facilities.
15. The County of Alameda, Board of Supervisors approved a negative declaration on June 19, 1984, for the proposed connection of Castlewood Country club to the West Pleasanton interceptor and related construction activities in accordance with the California Environmental Quality Act (Public Resources Code Section 21000 et seq.). The project as approved by the County of Alameda, Board of Supervisors, will not have any significant adverse impacts on the environment.
16. The Board has notified the dischargers and interested agencies and persons of its intent to reissue waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
17. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT Castlewood Country Club and Alameda County Service Area R-1967-1, Public Works Agency, County of Alameda, 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. Prohibitions

1. Castlewood Country Club shall not allow any overflow from the evaporation-percolation ponds.
2. Castlewood Country Club shall not allow any direct discharge of wastewater from its treatment and disposal facilities to Arroyo de la Laguna.

B. Effluent Limitations

The Castlewood Country Club shall comply with following specifications immediately:

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. To prevent threat of overflows, a minimum freeboard of 2 feet shall be maintained in each evaporation-percolation pond at all times.
3. The discharge of waste shall not continue to degrade the quality of ground water after connection of Castlewood's sewer system to the West Pleasanton Interceptor.
4. The discharge of waste shall not cause seepage to surface at any place outside the percolation ponds.
5. The waste as discharged to the evaporation-percolation ponds shall be at all times an adequately disinfected, oxidized wastewater and shall meet the following quality limits at all times:
 - a. Dissolved oxygen 2.0 mg/l, minimum
 - b. Dissolved sulfide 0.1 mg/l, maximum

C. Provisions

1. The dischargers shall comply with all requirements of this Order immediately upon adoption.
2. Castlewood Country Club shall file with the Regional Board technical reports on self-monitoring work performed according to detailed specifications as adopted in the self-monitoring program.
3. Castlewood Country Club shall permit the Regional Board or its authorized representatives in accordance with California Water code Section 13267(c):
 - 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 any monitoring equipment or method required by this Order.
- d. Sampling of any discharge.

Such inspections shall be made only after the consent of Castlewood Country Club has been obtained, or if such consent is refused, a warrant duly issued pursuant to the procedures set forth in Title 13 (commencing with Section 1822.50) of Part 3 of Code of Civil Procedure has been obtained; provided, however, that in the event of an emergency affecting the public health or safety, such inspection may be made without consent or the issuance of a warrant.

- 4. Castlewood Country Club shall maintain a copy of this Order at the site so as to be available at all times to personnel operating waste treatment and disposal facilities.
- 5. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by Castlewood Country Club or County of Alameda, the dischargers 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.
- 6. Castlewood Country Club and Alameda County Service Area R-1967-1, Public Works Agency, County of Alameda, shall comply or facilitate compliance with the following time schedule to assure timely termination of use of the Club's waste treatment and disposal facilities:

<u>Task</u>	<u>Completion Date</u>	<u>Report of Compliance Due</u>
a. Submit Step 3 Clean Water Grant Application Package	Completed	[a]
b. Submit Final Plans and Specifications	Completed	[a]
c. Award Contract for Construction	August 15, 1985	August 31, 1985[b]
d. Start Construction	September 1, 1985	September 15, 1985[b,c]
e. Complete Construction and Initiate Operation	April 30, 1986	May 15, 1986[b]

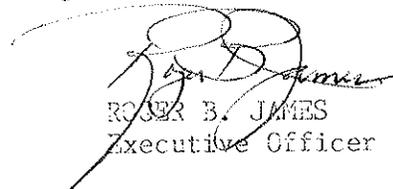
[a] - Reports were submitted to the State Water Resources Control Board, Clean Water Grants Program

[b] - Report to be submitted by Alameda County Service Area R-1967-1

[c] - The Construction Report shall include information on the updated time schedule for completion of the remaining tasks, the satisfactory corrective measures necessary to prevent pond overflow or wastewater spillage into Arroyo de la Laguna if ponds will be used during the wet season, and time schedule for implementing those corrective measures.

7. This Order and Order No. 81-57 expire on July 1, 1986.

I, Roger B. James, 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, 1985.



ROGER B. JAMES
Executive Officer

Attachment:
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

REVISED

SELF-MONITORING PROGRAM
FOR

CASTLEWOOD COUNTRY CLUB AND

ALAMEDA COUNTY SERVICE AREA R-1967-1

PUBLIC WORKS AGENCY

COUNTY OF ALAMEDA

PLEASANTON, ALAMEDA COUNTY

ORDER NO. 85-74

CONSISTS OF

PART A (dated January 1978)

AND

PART B Ordered April 12, 1978
Amended October 21, 1981
Revised June 19, 1985

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

Station

Description

A-1

At any point at which all waste tributary to the treatment plant is present.

B. EFFLUENT

Station

Description

E-0

At a point where the treated waste discharges to pond #1.

E-1

At any point in pond #1.

E-2

At any point in pond #2.

E-3

At any point in pond #3.

C. GROUNDWATER

Station

Description

G-1

At well number 3S/1E-29P2

G-2

At well number 3S/1E-32G2

G-3

At well number 3S/1E-32K4

In the event that the discharger chooses to monitor groundwater stations G-1 through G-3 by obtaining the data generated by the cooperative monitoring program of Zone 7 of the Alameda County Flood Control and Water Conservation District and the United States Geological Survey, the discharger will not be responsible for omissions or errors in data supplied by Zone 7 and USGS.

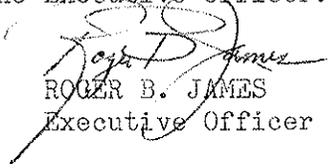
II. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis shall be that given as Table I.

B. The results of the groundwater sampling will be reported annually by March 15 for the previous calendar year.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this 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. 85-74.
2. Does not include the following sections of Part A (dated January 1978): C.3., C.4., C.5.a., D.1., D.3., E.4., F.3.c., F.3.e., Appendix A, Appendix C, and Appendix E.
3. Was adopted by the Board on June 19, 1985.
4. May be reviewed at any time subsequent to the adoption date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.


ROGER B. JAMES
Executive Officer

Attachment:
Table I
Map

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

ORDER NO. 85-74

Sampling Station	A-1	E-1,2,3		E-0										
	Cont	G	C-8	G	C-8									
Flow Rate (mgd)	D													
BOD, 5-day, 20° C, or COD (mg/l & kg/day)														
Chlorine Residual & Dosage (mg/l & kg/day)														
Settleable Matter (ml/1-hr. & cu. ft./day)														
Total Suspended Matter (mg/l & kg/day)														
Oil & Grease (mg/l & kg/day)														
Coliform (Total) (MPN/100 ml) per req't														
Fish Toxicity, 96-hr. TL ₅₀ % Survival in undiluted waste														
Ammonia Nitrogen (mg/l & kg/day)														
Nitrate Nitrogen (mg/l & kg/day)														
Nitrite Nitrogen (mg/l & kg/day)														
Total Organic Nitrogen (mg/l & kg/day)														
Total Phosphate (mg/l & kg/day)														
Turbidity (Jackson Turbidity Units)														
pH (units)														
Dissolved Oxygen (mg/l and % Saturation)			M		M									
Temperature (°C)														
Apparent Color (color units)														
Secchi Disc (inches)														
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)			M		M									
Arsenic (mg/l & kg/day)														
Cadmium (mg/l & kg/day)														
Chromium, Total (mg/l & kg/day)														
Copper (mg/l & kg/day)														
Cyanide (mg/l & kg/day)														
Silver (mg/l & kg/day)														
Lead (mg/l & kg/day)														

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-8 = composite sample - 8-hour
C-X = composite sample - X hours
(used when discharge does not
continue for 24-hour period)
Cont = continuous sampling
DI = depth-integrated sample
BS = bottom sediment sample
O = observation

TYPES OF STATIONS

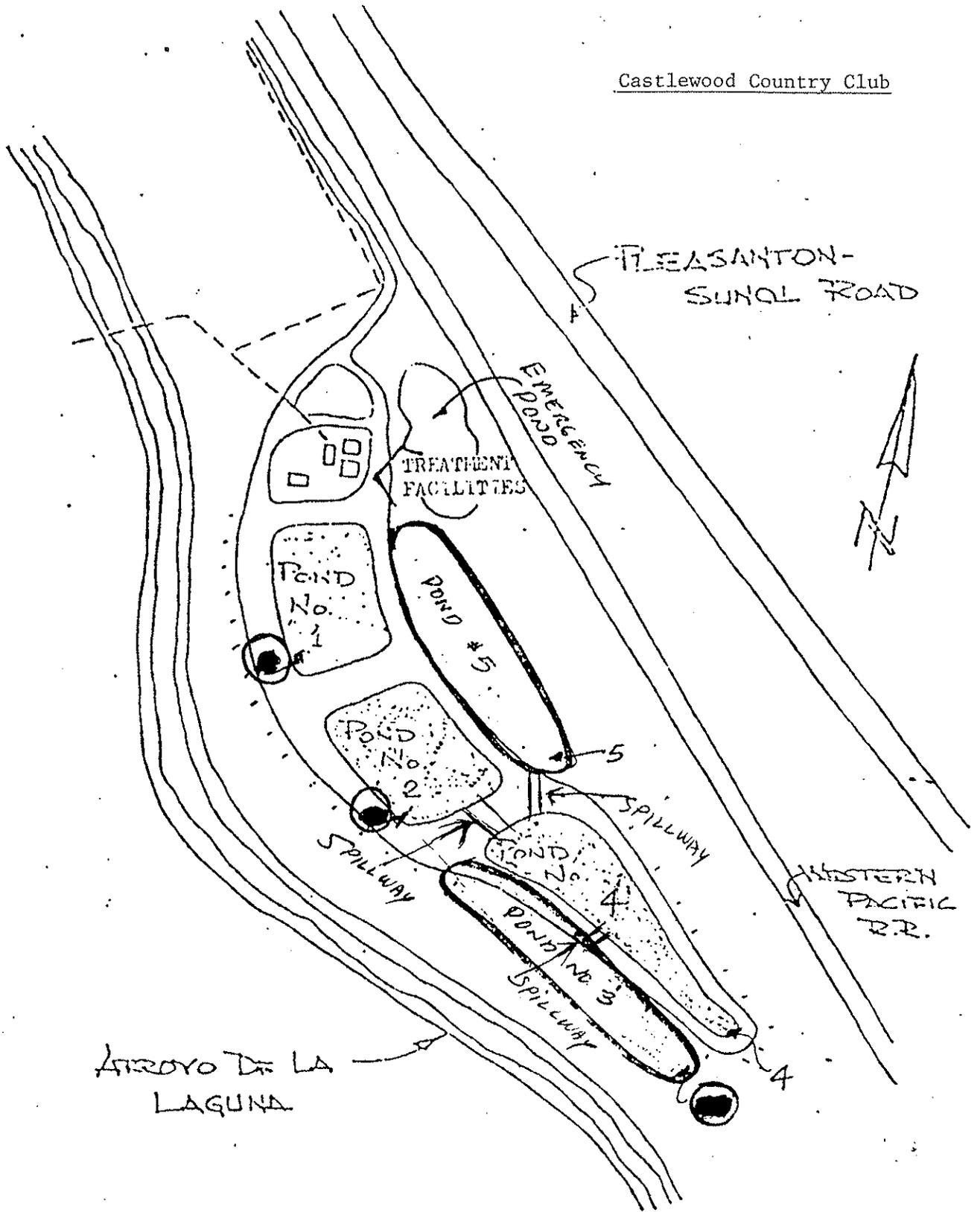
I = intake and/or water supply stations
A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurrence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/Y = once in March and
once in September
Q = quarterly, once in
March, June, Sept.
and December

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
2M = every 2 months
3M = every 3 months
Cont = continuous



POND CONFIGURATION

CASTLEWOOD COUNTRY CLUB