

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER NO. 85-35

**WASTE DISCHARGE REQUIREMENTS
FOR
BORREGO WATER DISTRICT
Borrego Springs - San Diego County**

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Borrego Water District (hereinafter also referred to as the discharger), P. O. Box 1870, Borrego Springs, California 92004, verified via the project engineer updated information in Finding No. 2 (below) on the discharge of waste on January 18, 1985.
2. The discharger is discharging a maximum daily flow of about 5,000 gallons-per-day of domestic sewage into an activated sludge treatment plant from the Ram's Hill Country Club development, which currently consists of about 50 residences and a clubhouse. The development is to be expanded in two phases. Completion of Phase I would generate an average daily flow of about 250,000 gallons-per-day from approximately 730 single family homes, a resort hotel and the restrooms serving a golf course and tennis courts. Phase II would complete the development with an additional 750 homes, which would necessitate increasing the capacity of the plant facilities to have a design flow of 500,000 gallons-per-day. Final disposal of the treated effluent would be by either of the following methods:
 - a. Discharge into earthen basins for infiltration and evaporation, which are located in the E $\frac{1}{2}$ of Section 23, T11S, R6E, SBB&M.
 - b. Upon future development resulting in a substantial increase in flow, discharge would be into ponds and mixed with pumped ground water for use as golf course irrigation water.
3. There are no domestic wells within 500 feet of the discharge facilities described in Finding No. 2 (above).
4. The discharge of this sewage treatment system has been subject to waste discharge requirements adopted in Board Order No. 80-53.
5. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted by the Regional Board on November 14, 1984. The Basin Plan contains water quality objectives for the Anza-Borrego Hydrologic Unit.

*replaced
by 90-032*

6. The beneficial uses of the ground waters of the Anza-Borrego Hydrologic Unit are:
 - a. Municipal supply
 - b. Industrial supply
 - c. Agricultural supply
7. The Board has notified the discharger and interested agencies and persons of its intent to update waste discharge requirements for the discharge.
8. The Board in a public meeting heard and considered all comments pertaining to the discharge.
9. The San Diego County Board of Supervisors certified Environmental Impact Report EAD No. 79-11-0 on May 7, 1980 for the proposed residential development and sewage treatment plant. The Regional Board has reviewed this EIR. The following waste discharge requirements are designed to assure against any significant effect on water quality.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Discharge Specifications

1. Representative samples of wastewater discharged to any holding and/or infiltration basins shall not contain constituents in excess of the following limits:

Constituent	Unit	30-Day Arithmetic Mean Discharge Rate	7-Day Arithmetic Mean Discharge Rate
20°C BOD ₅	mg/l	30	45
Suspended Solids	mg/l	30	45

2. No wastewater other than domestic sewage and swimming pool wastewater from this development shall be discharged at this location.
3. A minimum depth of freeboard of at least two (2) feet shall be maintained in the holding and infiltration basins.
4. Treated or untreated sludge, or similar solid waste materials, shall be discharged only at locations approved by the Regional Board.
5. Adequate measures shall be taken to assure that unauthorized persons and animal pets are effectively excluded from contact with the discharge.

6. There shall be no surface flow of sewage away from the designated discharge areas.
7. Infiltration facilities shall be maintained and operated so as to maximize infiltration and minimize the increase in salinity of the wastewater discharge.
8. Facilities shall be available to keep the treatment plant in operation in the event of commercial power failure.
9. Facilities shall be available for measurement of wastewater flow.
10. Borrego Water District shall not deliver reclaimed wastewater for reuse to those users who, by reason of their operating practices, cause nuisance associated with wastewater or otherwise contribute to the violation of the requirements of this Order. Wastewaters directly reused shall conform to the following:

Golf Course Irrigation and Landscape Impoundments

Reclaimed water used for the irrigation of golf courses or landscape impoundments where the public has access or exposure shall be at all times an adequately disinfected, oxidized, coagulated, clarified, filtered wastewater or a wastewater treated by a sequence of unit processes that will assure an equivalent degree of treatment and reliability. The wastewater shall be considered adequately disinfected if the median number of coliform organisms in the effluent does not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms does not exceed 23 per 100 milliliters in any sample.

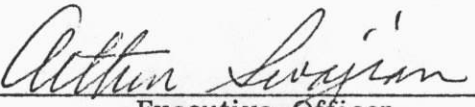
11. Increase of total dissolved solids in the treated wastewater over that contained in the community water supply shall not exceed an increment of 300 mg/l.

B. Provisions

1. Neither the treatment nor the discharge of wastewater shall cause a pollution or a nuisance as defined in Division 7 of the California Water Code.
2. Adequate protective works shall be provided to assure that a flood which would be expected to occur on a frequency of once in a 100-year period, would not erode or otherwise render portions of the treatment and discharge facilities inoperable.
3. Prior to any modifications in this facility which could result in material change in the quality or quantity of wastewater discharged, or any material change in location of discharge, the discharger shall report in writing to the Regional Board.

4. Prior to using the effluent for irrigation, the discharger shall submit to the Regional Board the following information:
 - a. Location of the area to be irrigated.
 - b. Person, Company or Agency responsible for the irrigating.
 - c. After initiation of the irrigation operation, the discharger shall notify the Regional Board prior to any change in (a) or (b), above.
5. The discharger shall comply with the attached "Monitoring and Reporting Program No. 85-35", and future revisions thereto, as specified by the Executive Officer.
6. In the event of any change in control or ownership of land or waste discharge facilities described herein, the discharger shall:
 - a. Notify this Board of such change; and
 - b. Transmit a copy of this Order to the succeeding owner or operator, and file a copy of the transmittal letter with this Board.
7. This Order supersedes Board Order No. 80-53.
8. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Administrative Code.

I, Arthur Swajian, 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, Colorado River Basin Region, on March 13, 1985.


Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

**MONITORING AND REPORTING PROGRAM NO. 85-35 (REVISED)
FOR
BORREGO WATER DISTRICT
Borrego Springs - San Diego County**

Location of Discharge: E1, Section 23, T11S, R6E, SBB&M

EFFLUENT MONITORING

1. Wastewater discharged from the treatment facilities shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD ₅	mg/l	8-Hour Composite	Quarterly
Suspended Solids	mg/l	8-Hour Composite	Quarterly
Flow (Total Plant Effluent)	Gals/day	Flow Measurement	Daily ¹

2. Wastewater contained in holding and/or infiltration basins shall be monitored for the following:

Total Dissolved Solids	mg/l	8-Hour Composite	Quarterly
Total Nitrogen (N)	mg/l	8-Hour Composite	Quarterly

WASTEWATER RECLAMATION

Borrego Water District shall report each location of irrigation use of wastewater at least to the extent of $\frac{1}{4}$ section designations. Wastewater directly used for irrigation of golf courses and discharged to landscape impoundments shall be monitored for the following:

Coliform Organisms	MPN/100 ml	Grab	Daily ²
Chlorine Residual	mg/l	Grab	Daily ²
Wastewater Directly Reused	Gals/Day	Flow Measurement	Daily ¹
Turbidity	NTU	Continuous	Daily

1. Reported for each day with average monthly flow calculated.
2. Samples of the Most Probable Number (MPN) of coliform organisms, and chlorine residual shall be collected at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection procedures and on each day that wastewater is being discharged to landscape impoundments or reused for golf course irrigation.

WATER SUPPLY TO THE COMMUNITY

The water supply shall be monitored for the following constituents. The sample analyzed shall be a weighted average of all sources.

Constituent	Unit	Type of Sample	Sampling Frequency
Total Dissolved Solids	mg/l	Grab	Annually
Chloride (Cl)	mg/l	Grab	Annually
Nitrate Nitrogen (N)	mg/l	Grab	Annually
Sulfate (SO ₄)	mg/l	Grab	Annually
Fluoride (F)	mg/l	Grab	Annually

SEWAGE SLUDGE

The discharger shall report quarterly on the quantity, method, and location of sewage sludge discharged.

REPORTING

Monitoring data shall be submitted to the Regional Board as follows:

Annual reports - by January 15 of the following year.

Quarterly reports - by January 15, April 15, July 15, and October 15 of each year.

Daily data - reported monthly by the 15th day of the following month.

Forward monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

ORDERED BY:

Alton Sevajian

Executive Officer

May 2, 1985

Date

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 85-35

FOR

BORREGO WATER DISTRICT

Borrego Springs - San Diego County

Location of Discharge: E $\frac{1}{2}$, Section 23, T11S, R6E, SBB&M

EFFLUENT MONITORING

1. Wastewater discharged from the treatment facilities shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD ₅	mg/l	8-Hour Composite	Quarterly
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Flow (Total Plant Effluent)	Gals/day	Flow Measurement	Daily ¹

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Total Dissolved Solids	mg/l	8-Hour Composite	Quarterly
Total Nitrogen (N)	mg/l	8-Hour Composite	Quarterly

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Wastewater Directly Reused	Gals/Day	Flow Measurement	Daily ¹
Turbidity	NTU	Grab	Daily ²

1. Reported for each day with average monthly flow calculated.
2. Samples of the Most Probable Number (MPN) of coliform organisms, chlorine residual and turbidity, shall be collected at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection procedures and on each day that wastewater is being discharged to landscape impoundments or reused for golf course irrigation.

*Revised
5/2/85*

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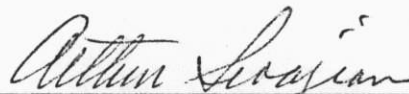
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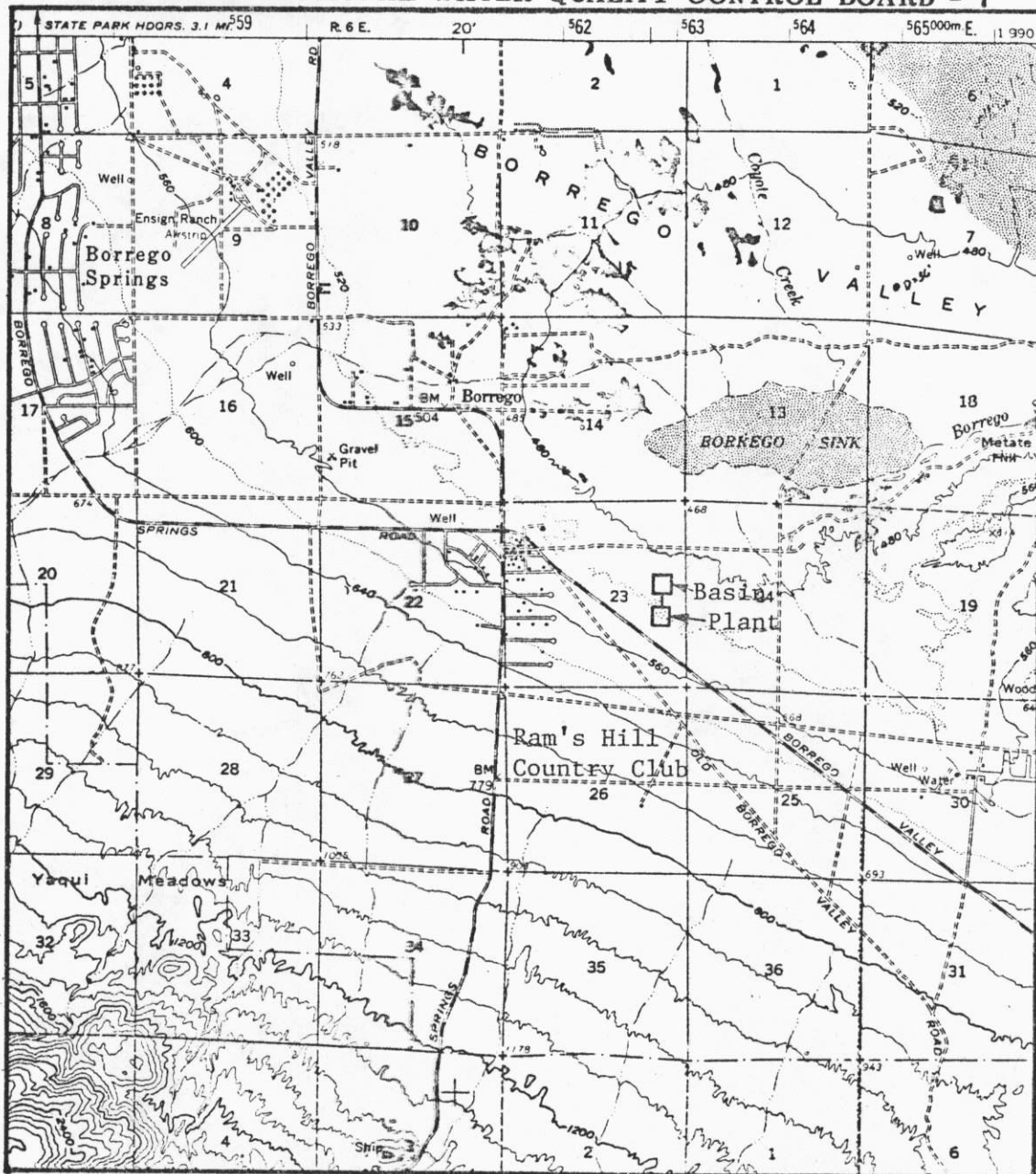
California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

ORDERED BY:


Executive Officer

March 13, 1985
Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



Scale:
1"=1 mi.

SITE MAP

BORREGO WATER DISTRICT
Borrego Springs - San Diego County
E½ of Section 23, T11S, R6E, SBB&M
USGS Borrego 15 min. Topographic Map

Order No. 85-35