CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 80-72

WASTE DISCHARGE REQUIREMENTS
FOR
COACHELLA VALLEY WATER DISTRICT
PALM DESERT WASTEWATER RECLAMATION PLANT
Northeast of Palm Desert - Riverside County

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

1. Coachella Valley Water District (hereinafter also referred to as the discharger), P.O. Box 1058, Coachella, CA 92236, submitted an updated report of waste discharge on March 24, 1980.

2. The discharger presently discharges a peak month average daily flow of 2.45 mgd of wastewater from an activated sludge treatment plant, into holding basins for final discharge by subsurface infiltration and also, direct reuse for irrigation of plant grounds, green belt areas and golf courses. Location of holding basins, infiltration basins and plant grounds is in SW 1/4, NW 1/4, Section 15, and the NW 1/4, SW 1/4, Section 15, T5S, R6E, SBB&M.

3. The discharger may also discharge, during emergencies, a maximum of 2.0 mgd of wastewater directly from the treatment plant to Coachella Valley Stormwater Channel. Requirements for this discharge are contained in Board Order No. 79-89 (NPDES No. CA0104558)

4. The discharger now proposes to discharge a design flow of 10 mgd in the manner set forth in Finding No. 2 and 3 (above).

5. The Water Quality Control Plan for the West Colorado River Basin Region was adopted on April 10, 1975. The Basin Plan contains water quality objectives for Coachella Hydrologic Subunit.

6. The beneficial uses of the groundwaters in the Indio Hydro Subarea are:

   a. Municipal supply

   b. Domestic supply

   c. Agricultural supply

   d. Industrial supply

Superceded by 86-77 9/17/86

7. This discharge has been subject to waste discharge requirements adopted in Order No. 74-96.

8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.

9. The Board in a public meeting heard and considered all comments pertaining to the proposed discharge.

10. The Board of Directors of the Coachella Valley Water District approved a Negative Declaration for "Palm Desert Water Reclamation Plant Expansion" on May 7, 1979. The Regional Board has reviewed this Negative Declaration. The below waste discharge requirements are designed to assure against any significant adverse effects on water quality.

IT IS HEREBY ORDERED, Coachella Valley Water District shall comply with the following:

A. Discharge Specifications

1. Representative samples of wastewater discharged to any holding and/or infiltration basin 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° BOD5 | mg/1 | 20 | 30 |
| Suspended Solids | mg/1 | 20 | 30 |
| Settleable Matter | ml/1 | 0.3 | 0.5 |

2. Representative samples of wastewater contained in 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 |
|---|---|---|---|
| Total Dissolved Solids | mg/1 | 450 | 500 |
| Sulfate (SO4) | mg/1 | 70 | 80 |

| Constituent | Unit | 30-Day Arithmetic Mean Discharge Rate | 7-Day Arithmetic Mean Discharge Rate |
|---|---|---|---|
| Chloride (Cl) | mg/l | 70 | 80 |
| Fluoride (F) | mg/l | 1.2 | 1.3 |

3. Coachella Valley County Water District shall not deliver reclaimed wastewater for reuse to those users who, by reason of their operation practices, cause nuisances associated with wastewater or otherwise contribute to the violation of the requirements of this Order. Wastewaters directly reused shall conform to the following:

   a. Reclaimed water used for the irrigation of golf courses, cemeteries, freeway landscapes, and landscapes in other areas where the public has similar access or exposure shall be at all times an adequately disinfected, oxidized wastewater. The wastewater shall be considered adequately disinfected if the median number of coliform organisms in the effluent does not exceed 23 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 240 per 100 milliliters in any two consecutive samples.

   b. Reclaimed water used for the irrigation of parks, playgrounds, schoolyards, and other areas where the public has similar 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.

4. Infiltration facilities shall be maintained and operated so as to maximize infiltration and minimize the increase of salinity.

5. A freeboard depth of at least two feet shall be maintained in each infiltration basin and holding basin.

6. Sewage sludge shall not be discharged to any natural or artificial channel.

7. There shall be no surface flow of sewage away from the designated disposal areas.

B. Provisions

1. The treatment and discharge of wastes shall not cause a pollution or a nuisance.

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. This Order includes the attached "Monitoring and Reporting Program No. 80-72" and future revisions thereto as specified by the Executive Officer.

4. Prior to using 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 to do the irrigating

   c. Quality of water provided in accordance with Discharge Specification No. 3a or 3b (above), and quantity.

   d. After initiation of the irrigation operation, the discharger shall notify the Regional Board prior to any change in (a), (b), or (c), above.

5. This Order supersedes this Board's Order No. 74-96 which is hereby rescinded.

6. Facilities shall be available to keep the plant in operation in the event of commercial power failure.

7. The discharger's 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 September 24, 1980.

Arthur Swajian

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 80-72
FOR
COACHELLA VALLEY WATER DISTRICT
PALM DESERT WASTEWATER RECLAMATION PLANT
NE of Palm Desert - Riverside County

Location of Treatment Facility: SW 1/4, NW1/4, Section 15, and the NW 1/4, SW1/4, Section 15, T5S, R6E, SBB&M.

## EFFLUENT MONITORING

Wastewater discharged to any holding and/or infiltration basin shall be monitored for the following:

| Constituents | Unit | Type of Sample | Sampling Frequency |
|---|---|---|---|
| 20°C BOD5 | mg/l | 24-Hr. Composite | Weekly |
| Suspended Solids | mg/l | 24-Hr. Composite | Weekly |
| Settleable Matter | ml/l | Grab at Peak Flow | Weekly |
| Flow (Total Plant Effluent) | MGD | Flow measurement | Daily* |

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

| | | | |
|---|---|---|---|
| Total Dissolved Solids | mg/l | Grab | Quarterly |
| Sulfate (SO4) | mg/l | Grab | Quarterly |
| Chloride (Cl) | mg/l | Grab | Quarterly |
| Fluoride (F) | mg/l | Grab | Quarterly |
| Total Nitrogen (N)[1] | mg/l | Grab | Quarterly |

*Reported for each day with average monthly flow calculated.

[1]Total Nitrogen as the summation of nitrate, nitrite, ammonia and organic nitrogen.

## WASTEWATER RECLAMATION

Coachella Valley Water District shall report each location of irrigation use of wastewater, at least to the extent of 1/4 Section designations. Wastewater directly used for irrigation in accordance with Discharge Specifications 3.a. and 3.b., shall be monitored for the following:

| Item | Unit | Type of Sample | Sampling Frequency |
|---|---|---|---|
| Coliform Organisms | MPN/100 ml | Grab | Daily** |
| Wastewater Directly used at each location | Gallons/day | Flow Measurement | Daily*** |

## SEWAGE SLUDGE

Coachella Valley County Water District 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:

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

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

The discharger shall implement the above monitoring program within 30 days of the effective date of this Order.

Forward monitoring reports to:

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

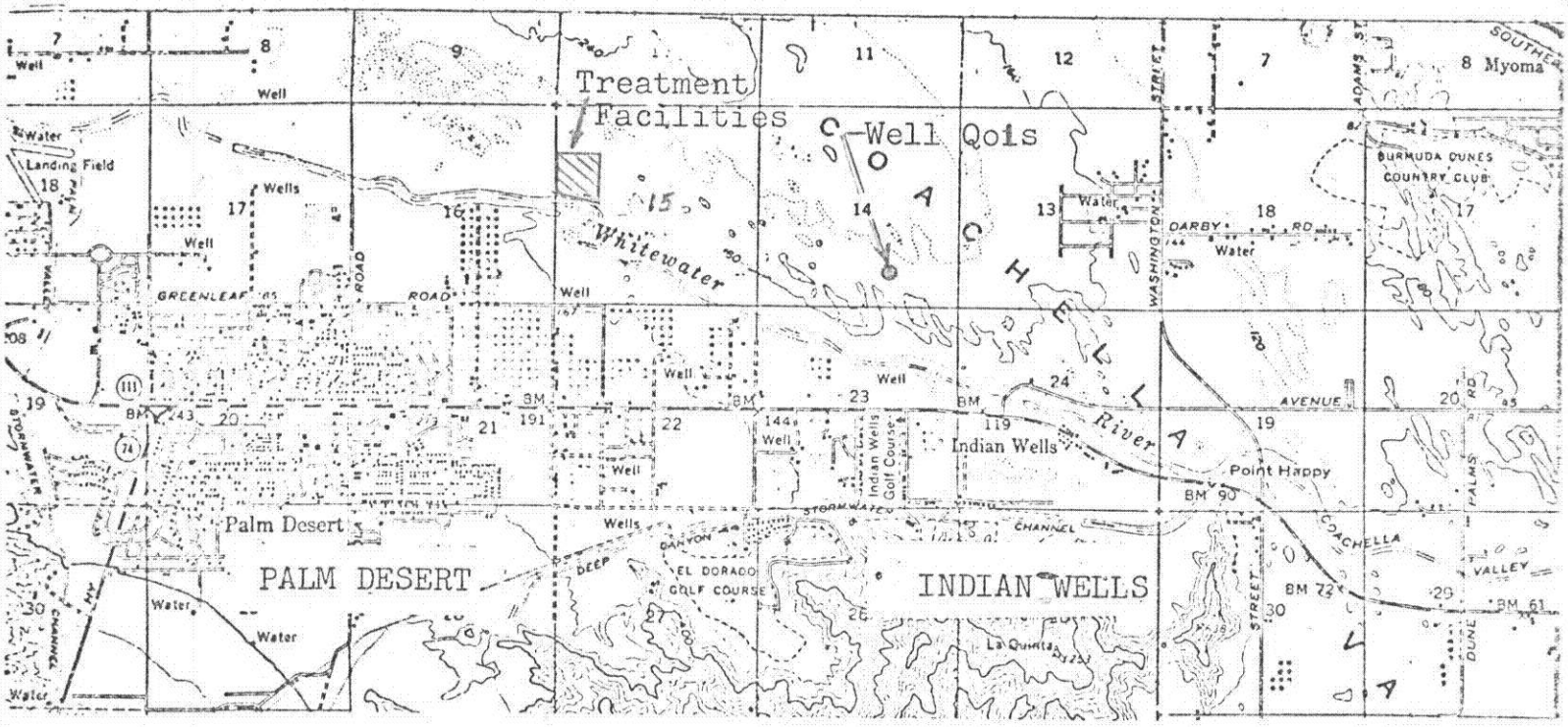
Ordered by Clifton Levajim

Sept. 29, 1980
Date

**To be taken when wastewater flow and characteristics are most demanding on the treatment facilities and disinfection procedures. The sample may be taken at any point in the treatment process.

***Reported for each day with average monthly flow calculated

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD -7

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Site Map

Coachella Valley Water District
Palm Desert Wastewater Reclamation Plant
$SW\frac{1}{4}$, $NW\frac{1}{4}$, Section 15
and the
$NW\frac{1}{4}$, $SW\frac{1}{4}$, Section 15, T5S, R6E, SBB&M
Palm Desert 15' Topographic Map

Scale:
1" = 1 mile

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