

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 85-14

WASTE DISCHARGE REQUIREMENTS
FOR
COLLEGE OF THE DESERT
COOLING TOWER BLOWDOWN
Palm Desert - Riverside County

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

1. College of the Desert (hereinafter also referred to as the discharger), 43-500 Monterey Avenue, Palm Desert, California, 92260, submitted a Report of Waste Discharge, dated November 19, 1984.
2. The discharger is discharging about 5,000 gallons-per-day of cooling tower blow-down water, which is produced from cooling the main buildings of this college. During the summer months the blowdown wastewater reaches a reported total dissolved solids concentration as high as 1500 mg/l. The cooling water is treated with chemicals, which presently include small amounts of molybdenum, chlorine and sulfuric acid, and is discharged into a leach field. The molybdenum is used as a scale and corrosion inhibitor, chlorine controls biological growth and sulfuric acid controls the pH. The college is located in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 17, T5S, R6E, SBB&M.
3. The discharger reports that the above scale and corrosion inhibitor contains a concentration of molybdenum of 0.005 mg/l. The U.S. Environmental Protection Agency's "National Interim Drinking Water Standards", dated 1976, does not provide a limitation on molybdenum.
4. The discharger has sufficient area available for possible future 100 percent replacement of the leach field.
5. The discharger utilizes domestic water in the cooling tower from two wells on the campus, which are more than two hundred feet from the leach field. The total dissolved solids concentration of the supply water from these wells is about 420 mg/l.
6. 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 Coachella Hydrologic Subunit.
7. The beneficial uses of ground water of the Coachella Hydrologic Subunit are:
 - a. Municipal supply
 - b. Industrial supply
 - c. Agricultural supply

*Superseded
by 9/17/86
86-76*

8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge.
9. The Board in a public meeting heard and considered all comments pertaining to the discharge.
10. These waste discharge requirements govern an existing facility, which the discharger is currently operating, and therefore is exempt from the provisions of the California Environmental Quality Act in accordance with Section 15301 of Title 14, Chapter 3 of the California Administrative Code.

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

A. Specifications

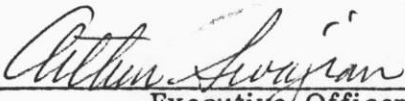
1. Neither the treatment nor the discharge of wastewater shall create a pollution or a nuisance as defined in Division 7 of the California Water Code.
2. No wastewater other than that described in Finding No. 2 and No. 3 (above) shall be discharged at this location.
3. Wastewater discharged subsurface shall be retained underground with no surfacing.
4. There shall be no toxic chemicals including chromium added to the designated cooling tower water system.
5. The wastewater shall not be discharged subsurface unless the total dissolved solids concentration in the discharged wastewater is less than 1,500 mg/l.
6. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.

B. Provisions

1. The discharger shall comply with the attached "Monitoring and Reporting Program No. 85-14", and future revisions thereto, as specified by the Executive Officer.
2. Prior to any modifications in this cooling system, or any material change in location of discharge, the discharger shall report in writing to the Regional Board.
3. Prior to any proposed change in operation, or in control or ownership of the land upon which the discharge facilities are located, the discharger shall report in writing to the Regional Board.

4. Any proposed corrosion control or biological control treatment(s) utilized in the cooling tower, shall be reported to the Board and, also, a listing of any of EPA's 126 priority pollutants contained in said treatment(s).

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. 85-14
FOR
COLLEGE OF THE DESERT
COOLING TOWER BLOWDOWN
Palm Desert - Riverside County**

Location of Discharge: Portion of the SE $\frac{1}{4}$, SW $\frac{1}{4}$ of Section 17, T5S, R6E, SBB&M

EFFLUENT MONITORING

Cooling tower blowdown wastewater discharged subsurface shall be monitored for the following constituents:

| <u>Constituents</u> | <u>Unit</u> | <u>Type of Sample</u> | <u>Sampling Frequency</u> |
|------------------------|-------------|-----------------------|---------------------------|
| Total Dissolved Solids | mg/l | Grab* | Quarterly |
| Chromium | mg/l | Grab* | Semi-annually |
| Molybdenum | mg/l | Grab* | Semi-annually |

WATER SUPPLY MONITORING

Water from the supply wells shall be monitored for total dissolved solids concentration (in mg/l) annually.

REPORTING

Semi-annual monitoring reports shall be submitted to the Regional Board by January 15 and July 15 of each year.

A statement that no toxic chemicals including chromium have been added to the cooling tower water system during the previous year shall be submitted annually on January 15.

Reports shall be mailed to:

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

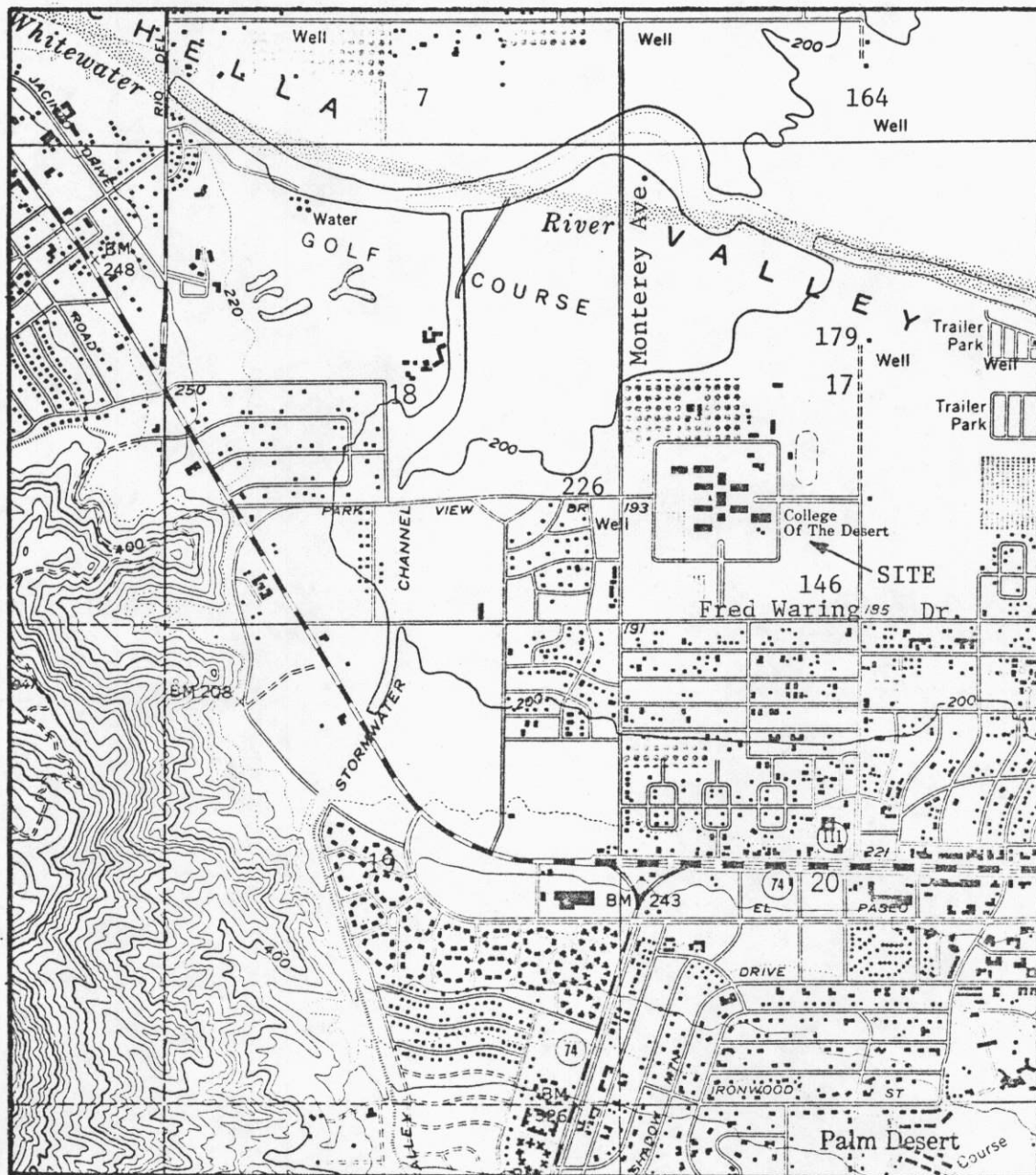
ORDERED BY:


Executive Officer

March 13, 1985
Date

*Samples shall be taken from the cooling tower catch basin.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



Scale:
1" = 2,000'

SITE MAP
COLLEGE OF THE DESERT
COOLING TOWER BLOWDOWN
Palm Desert - Riverside County
SE $\frac{1}{4}$, SW $\frac{1}{4}$ of Section 17, T5S, R6E, SBB&M
USGS Rancho Mirage 7.5 min. Topographic Map

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