CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 77-27

WASTE DISCHARGE REQUIREMENTS
FOR
CITY OF NEEDLES
SAN BERNARDINO COUNTY

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

1. The City of Needles (hereinafter also referred to as the discharger), P.O. Box 887, Needles, CA 92363, submitted a Report of Waste Discharge dated February 14, 1977.

2. The discharger proposes to discharge wastewater as follows:

   a. Treated wastewater in the amount of 0.7 mgd present average-daily-flow and 1.8 mgd design average-daily-flow, would be discharged into a holding basin located in the municipal golf course in Section 29, T9N, R23E, SBB&M.

   b. Wastewater from the above holding basin would be pumped into an existing sprinkler system and used for irrigation of the golf course.

   c. A holding basin located in the SW¼, Section 33, T9N, R23E, SBB&M would be used for emergency storage of wastewater with final disposal by infiltration.

3. The City of Needles has prepared a Final "Environmental Impact Report," dated November 1976, for the city wastewater treatment plant expansion, in accordance with the California Environmental Quality Act (Public Resources Code 21000 et seq).

4. The project as approved by the City of Needles will have the following significant effects on the environment:

   a. The present well water used for irrigating the golf course is of very poor quality. The wastewater discharged from the treatment plant is of superior quality and would allow the clay soils to provide a longer growing period.

   b. The wastewater is presently discharged to Colorado River and the summer wastewater temperatures are sometimes 20°F higher than that of the river water.

Cancelled 3/18/83

c. The nitrogen and phosphorous contained in the discharged wastewater will replace commercial fertilizer presently used on the golf course.

d. There would be a potential for minor adverse environmental impacts from dust, noise and vibrations during the construction period.

5. The Water Quality Control Plan for the East Colorado River Basin was adopted by the Board on April 10, 1975, and this order implements the objectives stated in the Plan.

6. The beneficial uses of groundwaters in the Piute Hydrologic Unit are:

   a. Municipal

   b. Industrial

   c. Agricultural

7. The discharge has been subject to waste discharge requirements adopted in Order No. 74-1 (NPDES No. CA0104205).

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 discharge.

IT IS HEREBY ORDERED, the City of Needles shall comply with the following:

A. Discharge Specifications

1. Neither the treatment nor the discharge of waste shall cause a pollution or a nuisance.

2. Representative samples of wastewater effluent from treatment facilities shall not contain constituents in excess of the following limits:

Constituent	Unit	30-Day Arithmetic Mean Discharge Rate	7-Day Arithmetic Mean Discharge Rate	Maximum Discharge Rate
20°C BOD5	mg/l	20	30	40
Suspended Solids	mg/l	20	30	40
Settleable Matter	ml/l	0.3	0.5	1.0

3. The 7-day or 30-day mean for constituents listed in Item 2 above shall be the arithmetic mean of all the values of daily discharge rate calculated using the results of analyses of all samples collected during any 7 or 30 consecutive calendar day period. If fewer than 4 samples are collected and analyzed during any 30 consecutive calendar day period, compliance with the 30-day average limitation shall not be determined. If fewer than 3 samples are collected and analyzed during any 7 consecutive calendar day period, compliance with the 7-day average limitations shall not be determined.

4. The increase of chemical constituents contained in the discharged wastewater over that of the water supply as a weighted average of all sources, shall not exceed the following increments:

Constituent	Increments (mg/l)
Total Dissolved Solids	300
Chloride	50
Sulfate	30
Fluoride	0.5

5. The City of Needles shall not deliver reclaimed wastewater for reuse to those users who, by reason of their operating practices, cause nuisances associated with wastewater or otherwise contribute to the violation of the requirements of this Order.

6. Wastewaters directly reused for golf course irrigation shall at all times be adequately disinfected and oxidized. The water shall be considered adequately disinfected if at some point in the treatment process the median Most Probable Number of coliform organisms does not exceed twenty-three (23) per one hundred (100) milliliters of sample. The median value will be determined from the bacteriological results of the last seven (7) days for which analyses have been completed.

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

8. There shall be no surface flow of sewage away from the designated disposal area.

9. A freeboard depth of at least two (2) feet shall be maintained in each holding basin.

10. Basins from which wastewater may infiltrate shall not be located within 200 feet laterally of any water supply well.

11. The quanitity of wastewater discharged shall not exceed an annual average daily flow of 1.8 mgd.

B. Provisions

1. 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, excepting the golf course and the holding basin at the golf course.

2. Facilities shall be available to keep the plant in operation in the event of commercial power failure and floods. Ten days storage capacity in holding basin(s) protected from a 100-year flood, will be considered sufficient for this purpose.

3. Facilities shall be available for the continuous measurement of the volume of discharged wastewater.

4. This order includes the attached "Monitoring and Reporting Program No. 77-27 and future revisions thereto, as specified by the Executive Officer.

5. This order includes the attached "General Monitoring and Reporting Provisions."

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 May 18, 1977.

Arthur Swajian

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 77-27
FOR
CITY OF NEEDLES
SAN BERNARDINO COUNTY

MONITORING

WASTEWATER DISCHARGE

Samples shall be taken of wastewater discharged from the treatment plant. A sampling station shall be established where representative samples of the effluent can be obtained.

Constituent	Unit	Type of Sample	Sampling Frequency
Total Dissolved Solids	mg/l	24 hr. composite	Quarterly
Ammonia (NH_4)	mg/l	24 hr. composite	Annually
Calcium (CA)	mg/l	24 hr. composite	Annually
Magnesium (Mg)	mg/l	24 hr. composite	Annually
Potassium (k)	mg/l	24 hr. composite	Annually
Sodium (Na)	mg/l	24 hr. composite	Annually
Bicarbonate (HCO_3)	mg/l	24 hr. composite	Annually
Chloride (Cl)	mg/l	24 hr. composite	Quarterly
Fluoride (F)	mg/l	24 hr. composite	Quarterly
Nitrate (NO_3)	mg/l	24 hr. composite	Annually
Phosphate (PO_4)	mg/l	24 hr. composite	Annually
Sulfate (SO_4)	mg/l	24 hr. composite	Quarterly
Boron (B)	mg/l	24 hr. composite	Annually
MBAS	mg/l	24 hr. composite	Annually
Suspended Solids	mg/l	24 hr. composite	Weekly
20°C BOD5	mg/l	24 hr. composite	Weekly
pH	pH Units	Grab	Daily
Settleable Matter	ml/l	Grab	Daily
Coliform	MPN/100ml	Grab	Daily
Chlorine Residual	mg/l	Grab	Daily

Water Supply To City of Needles

The City of Needles shall report on the following constituents contained in the City water supply as a weighted average of all sources:

Constituent	Unit	Type of Sample	Sampling Frequency
Total Dissolved Solids	mg/l	Grab	Annually
Calcium (Ca)	mg/l	Grab	Annually
Magnesium (Mg)	mg/l	Grab	Annually
Potassium (k)	mg/l	Grab	Annually

Constituent	Unit	Type of Sample	Sampling Frequency
Sodium (Na)	mg/l	Grab	Annually
Bicarbonate (HCO_3)	mg/l	Grab	Annually
Chloride (Cl)	mg/l	Grab	Annually
Fluoride (F)	mg/l	Grab	Annually
Nitrate (NO_3)	mg/l	Grab	Annually
Phosphate (PO_4)	mg/l	Grab	Annually
Sulfate (SO_4)	mg/l	Grab	Annually
Boron (B)	mg/l	Grab	Annually

Sewage Sludge

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

Reporting

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

Annual report - by January 30 of the following year.
Quarterly reports- by January 15, April 15, July 15, and October 15 of each year.
Weekly and Daily reports - by 15th days of the following month.

The discharger shall implement the above monitoring program immediately upon commencement of use of wastewater for golf course irrigation.

Forward monitoring reports to:
California Regional Water Quality Control Board
73-271 Highway 111
Suite 21
Palm Desert, CA 92260

Ordered by Arthur Levajian
Executive Officer

May 18, 1977
Date

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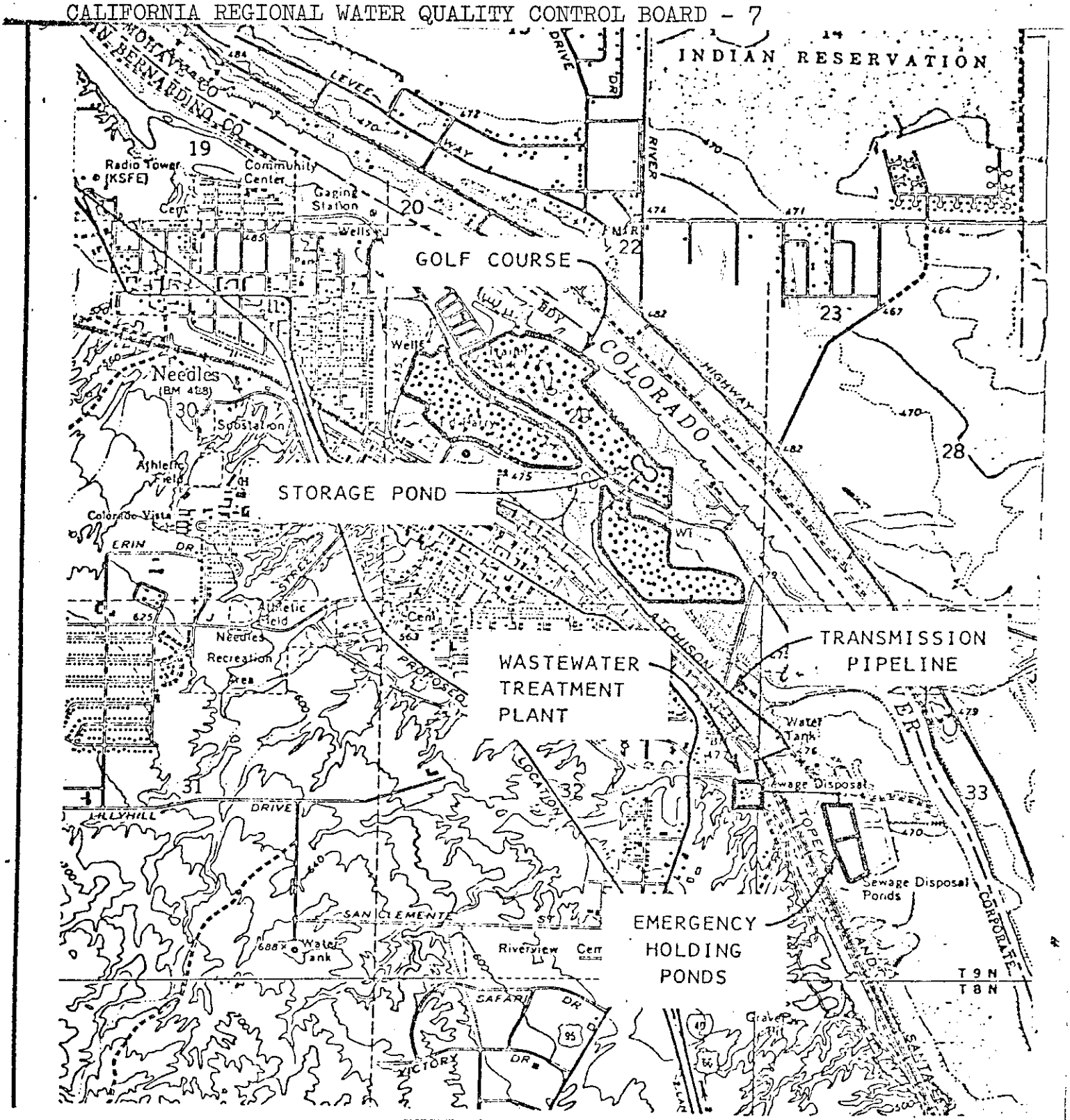

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SITE MAP
CITY OF NEEDLES
LOCATIONS OF WASTE DISCHARGE
Section 29 & 33, T9N, R23E, SBB&M

1"=2,000'