

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 78-2

WASTE DISCHARGE REQUIREMENTS
FOR
RIVERSIDE COUNTY SERVICE AREA NO. 51, LAKE TAMARISK
Northeast of Desert Center - Riverside County

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

1. Riverside County Service Area No. 51, (hereinafter also referred to as the discharger) Box 316, Desert Center, California 92239, submitted a report of waste discharge dated August 29, 1977.
2. The discharger is discharging wastes from a residential development as follows:
 - a. A maximum average daily flow of 0.246 mgd of domestic sewage is treated in mechanically aerated oxidation basins and discharged into infiltration basins located in the N $\frac{1}{2}$, NE $\frac{1}{4}$, NE $\frac{1}{4}$, Section 14, T5S, R15E, SBB&M.
 - b. An average daily flow of 0.00723 mgd of defluoridation process wastewater, containing high concentrations of fluorides, is discharged into evaporation basins located in the SW $\frac{1}{4}$, NE $\frac{1}{4}$ of Section 14, T5S, R15E, SBB&M. The discharger reports that these evaporation basins are lined with a 10 mil polyethylene liner.
 - c. An average daily flow of 0.0196 mgd of defluoridation process wastewater, containing low concentrations of fluorides, is spread over desert land located in the SW $\frac{1}{4}$, NE $\frac{1}{4}$ of Section 14, T5S, R15E, SBB&M.
3. The discharges from this facility have been subject to waste discharge requirements adopted in Board Order No. 71-46.
4. The Water Quality Control Plan for the West Colorado River Basin was adopted by the Board on April 10, 1975. The Basin Plan contains water quality objectives for Chuckwalla Hydrologic Unit.

*Replaced
by 85-29*

5. The beneficial uses of the groundwaters of the Chuckwalla Hydrologic Unit are:
 - a. Municipal supply
 - b. Industrial supply
 - c. Agricultural supply
6. The Board has notified the discharger and interested agencies and persons of its intent to update waste discharge requirements for the discharges.
7. The Board in a public meeting heard and considered all comments pertaining to the discharges.
8. This residential development constitutes an ongoing project in accordance with provisions of the California Environmental Quality Act (Public Resources Code Section 21000 et seq.) and the State Guidelines because the governmental approvals on or after April 5, 1973, do not involve a greater degree of responsibility or control over such activity than the governmental approvals received prior to that date.

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

A. Discharge Specifications

SEWAGE

1. Wastewater discharged into infiltration basins shall not contain constituents in excess of the following limits:

<u>a. Constituents</u>	<u>Unit</u>	<u>Maximum</u>
Total Dissolved Solids	mg/l	900
Chloride (Cl)	mg/l	150
Sulfate (SO ₄)	mg/l	250

b. Fluoride

The increase in concentration of the fluoride constituent shall not be more than 0.6 mg/l above the average value of the water delivered for domestic purposes.

2. Wastewaters contained in basins shall be maintained in an aerobic condition.
3. There shall be no discharge of sewage wastewater within 500 feet of any water supply well.

4. There shall be no surface flow of sewage away from the designated disposal area.
5. Treated or untreated sludge, or similar solid waste materials, shall not be discharged to or enter any drainage channels.
6. Adequate measures shall be taken to assure that unauthorized persons and animal pets are effectively excluded from contact with the discharge.
7. Treatment and disposal by ponding shall be conducted in such manner that there shall be no stranded or exposed sewage solids.
8. A freeboard depth of at least two feet shall be maintained in all holding and infiltration basins.
9. The maximum daily flow shall not exceed 0.246 million gallons per-operating-day.
10. Infiltration and holding facilities shall be maintained and operated so as to maximize infiltration and minimize the increase in salinity of the wastewater discharge.
11. No wastewater other than domestic sewage shall be discharged at this location.

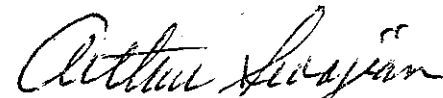
DEFLUORIDATION PROCESS WASTEWATER

12. In the defluoridation regeneration cycle, the discharge of wastewater to other than containment basins whose permeability does not exceed 1×10^{-8} cm/sec. is prohibited until the fluoride concentration of the discharging wastewater drops below 8 mg/l.
13. Sludge or wastewater shall be removed from the containers described in Specification No. 12 (above) and discharged at a location approved by the Regional Board when the freeboard of the basin is less than two feet.
14. No wastewater other than defluoridation process wastewater, as described in Finding No. 2.b and c, shall be discharged at this location.

B. Provisions

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. Facilities shall be available to handle wastewater in the event of commercial power failure.
3. 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.
4. 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.
5. The discharger shall comply with "Monitoring and Reporting Program No. 78-2" and "General Provisions for Monitoring and Reporting", and future revisions thereto, as specified by the Executive Officer.
6. In the event of any change in operations, or in control or ownership of land and/or waste disposal facilities owned or controlled by the discharger, the discharger shall:
 - a. Notify this Board of such change; and
 - b. Notify* the succeeding owner or operator by letter of the existence of this Order, a copy of which shall be filed with this Board.
7. This Order supersedes Board Resolution No. 71-46.
8. The discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates 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 January 25, 1978.



Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 78-2
FOR
RIVERSIDE COUNTY SERVICE AREA NO. 51, LAKE TAMARISK
Northeast of Desert Center - Riverside County

SEWAGE EFFLUENT

Sewage wastewater discharged to infiltration basins shall be sampled at the point of discharge to said basins. The following shall constitute the monitoring program.

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Total Dissolved Solids	mg/l	Grab	Monthly
Chloride (Cl)	mg/l	Grab	Monthly
Sulfate (SO ₄)	mg/l	Grab	Monthly
Fluoride (F)	mg/l	Grab	Monthly
Average daily flow	Gallons/Day	Average Daily	Monthly

DEFLUORIDATION PROCESS WASTEWATER
DISCHARGED TO LAND

The wastewater discharged to land during each caustic regeneration cycle shall be sampled for fluoride, prior to the discharge, to determine compliance with Discharge Specification No. 12.

The volume of wastewater discharged to land during each regeneration cycle shall be recorded.

This monitoring data shall be submitted quarterly.

DEFLUORIDATION PROCESS WASTEWATER
DISCHARGED TO IMPERVIOUS BASINS

Samples shall be taken from each impervious basin. The monitoring program shall be as follows:

<u>Constituent</u>	<u>Unit</u>	<u>Sampling Frequency</u>
Liquid surface of basins (total).....	Acres	Quarterly
Liquid depth in each basin.....	Feet	Quarterly
Wastewaters discharged to each basin.....	Ac.Ft./Quarter	Quarterly
Total Dissolved Solids in each basin.....	mg/l	Annually
Water balance accounting for all liquids delivered to each basin.....	Ac.Ft.	Annually
Wastes removed from each basin.....	Gal. or Tons	Annually

WATER SUPPLY

The water supply shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Fluoride (F)	mg/l	Grab	Quarterly

REPORTING

Monitoring reports shall be submitted as follows:

Monthly - by the 15th day of the following month.

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

Annually - by January 30 of each year.

The water balance shall be calculated annually and submitted by January 30 of the following year. Reports on wastes removed from basins shall be submitted upon completion of removal.

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

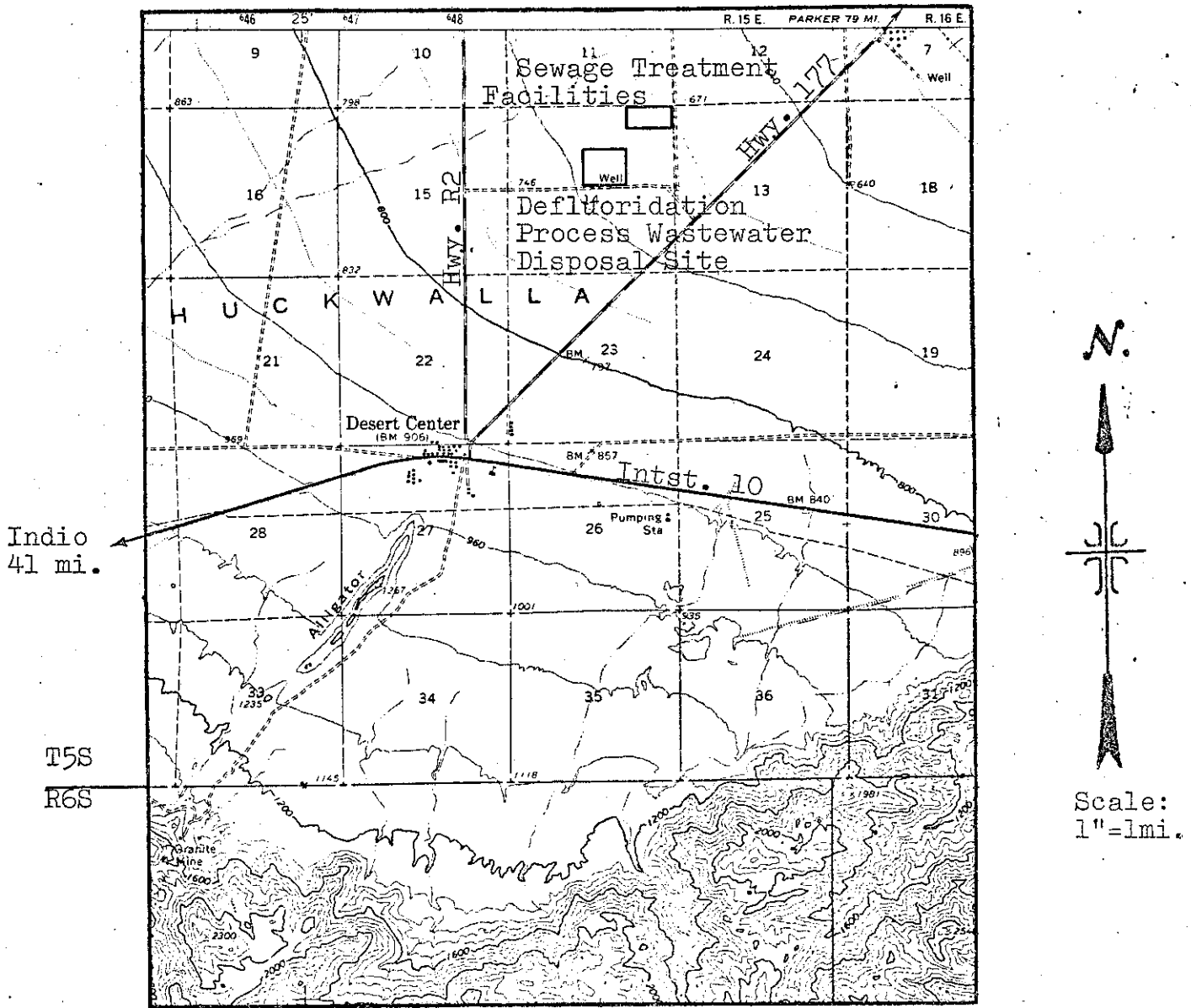
ORDERED BY

Arthur Sevajan
Executive Officer

January 25, 1978

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD-7



SITE MAP

RIVERSIDE COUNTY SERVICE AREA NO. 51, LAKE TAMARISK

Northeast of Desert Center - Riverside County.

Location of Sewage Discharge: N $\frac{1}{2}$, NE $\frac{1}{4}$, NE $\frac{1}{4}$, Section 14, T5S, R15E, SBB&M

Location of Defluoridation Discharge: SW $\frac{1}{4}$, NE $\frac{1}{4}$, Section 14, T5S, R15E, SBB&M

U.S.G.S. Chuckwalla Mountains 15 min. Topographic Map

Order No. 78-2