

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 90-008
NPDES NO. CA0104370

WASTE DISCHARGE REQUIREMENTS
AND NPDES PERMIT
FOR
HEBER PUBLIC UTILITY DISTRICT
Heber - Imperial County

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

1. Heber Public Utility District (hereinafter also referred to as the discharger), P. O. Box H, 1085 Ingram Avenue, Heber, California 92249-047, submitted an NPDES application for renewal of waste discharge requirements dated October 19, 1989. Said application is assigned Application No. CA0104370.
2. The discharger provides sewer services to the community of Heber, which has a current population of 3,000.
3. The discharger operates an oxidation ditch wastewater treatment plant that has a design flow of 405,000 gallons-per-day. The wastewater undergoes biological treatment in the oxidation ditch, using extended aeration. This is followed by secondary clarification. Most of the sludge in the secondary clarifier is recirculated to the oxidation ditch. A small portion of the sludge is piped (periodically) to sludge drying beds. The dried sludge is disposed on-site as a sludge pile.
4. The discharger currently discharges an annual average daily flow of 184,000 gallons-per-day of non-chlorinated treated plant effluent to Central Drain 3-D No. 1 in the NW $\frac{1}{4}$, NE $\frac{1}{4}$ of Section 28, T16S, R14E, SBB&M (indicated on the attached site map). The combined waters in the drain flow about 12 miles before entering the Alamo River at a point 39 miles south of Salton Sea.
5. The discharger reports that there are no industrial wastewaters discharged to the treatment plant.
6. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted on November 14, 1984.
7. The primary purpose of drains in the Imperial Valley, including Central Drain, is the transport of surface and subsurface drainage waters, containing dissolved solids to Salton Sea (for agricultural soil salinity control).
8. The beneficial uses of waters in the Alamo River and Imperial Valley Drains discharging thereto are:
 - a. Fresh Water Replenishment of Salton Sea (FRSH)
 - b. Noncontact Water Recreation (REC II)
 - c. Warm Water Habitat (WARM)
 - d. Wildlife Habitat (WILD)

*Superseded
by Bd. Ord. # 95-045
June 28, 1995*

9. In accordance with California Water Code, Section 13389, the issuance of waste discharge requirements for this discharge is exempt from the provisions of the California Environmental Quality Act described in Chapter 3 (commencing with Section 21100 et seq.) Division 13 of the Public Resources Code.
10. This discharge has been subject to waste discharge requirements adopted in Board Order No. 84-097 (NPDES No. CA0104370) which allows discharge to the Central Drain.
11. The purpose of this Board Order is to renew waste discharge requirements contained in Board Order No. 84-097.
12. The Board has notified the discharger and interested agencies and persons of its intent to renew waste discharge requirements for the said discharge.
13. The Board in a public meeting heard and considered all comments pertaining to the existing discharge.
14. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Clean Water Act, or amendment thereto, and shall take effect at the end of ten days from date of adoption provided the EPA Regional Administrator has no objections.

IT IS HEREBY ORDERED, Heber Public Utility District, in order to meet the provision contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Effluent Limitations

1. Representative samples of wastewater discharged to Central Drain 3-D No. 1 from the treatment plant shall not contain constituents in excess of the limits indicated below:

<u>Constituent</u>	<u>Unit</u>	<u>30-Day Arithmetic Mean Discharge Rate</u>	<u>7-Day Arithmetic Mean Discharge Rate</u>
20°C BOD ₅	mg/l	30	45
Suspended Solids	mg/l	30	45
Settleable Solids	ml/l	0.3	0.5

2. The 30-day average percent removal of the pollutant parameters BOD₅ and suspended solids shall not be less than 85 percent.
3. The effluent values for pH shall be maintained within the limits of 6.0 to 9.0.

B. Receiving Water Limitations

1. Wastewater discharged to Central Drain 3-D No. 1 shall not:
 - a. Depress the dissolved oxygen content of the said Drain below 5.0 mg/l. During periods when the Drain's dissolved oxygen content is already below 5.0 mg/l, the discharge shall not cause any further depression.
 - b. Cause presence of oil, grease, scum, sludge, or solids.

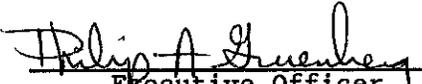
- c. Contain heavy metals, chemicals, pesticides, or other constituents in concentrations toxic to aquatic life.
2. This discharge shall not cause a violation of any other applicable water quality standard for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Clean Water Act and regulations adopted thereunder.

C. Provisions

1. Neither the treatment nor the discharge of wastes shall cause pollution or 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/disposal facilities inoperable.
3. This Board Order includes the attached Standard Provisions for NPDES Permit and attached "Monitoring and Reporting Program No. 90-008", and future revisions thereto, as specified by the Executive Officer.
4. The discharger's facility shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Title 23, Section 3680, California Code of Regulations.
5. Facilities shall be available to keep the plant in operation in the event of commercial power failure.
6. Bioassays shall be performed annually to evaluate the toxicity of the discharged wastewater in accordance with the following procedures:
 - a. Bioassays shall be conducted on a sensitive fish species and an invertebrate species as approved by the Regional Board's Executive Officer. *Pimephales promelas* (fathead minnow) and *Ceriodaphnia* are suggested test species which may be utilized. The bioassays shall be conducted in accordance with the protocol given in EPA/600/4-85/014 - Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Waters to Freshwater Organisms.
 - b. When the program described above in 6.a. has been completed, this permit will be reopened. At that time, effluent variability will be calculated and a numerical effluent limit established for toxicity. A compliance monitoring shall then be based on annual bioassays of the organism which showed greater sensitivity during the effluent characterization program. Selection of the more sensitive species will be made by the Regional Board.
7. This Board Order expires 5 years from January 17, 1990; and the discharger shall file a Report of Waste Discharge in accordance with Title 23, California Code of Regulations, at least 180 days in advance of such date as an application for issuance of new waste discharge requirements.
8. The discharger shall obtain the prior written approval of the Executive Officer regarding any new location and method of disposal of secondary sludges. In addition, the discharger shall provide the results of any sludge analyses as specified by the Executive Officer.

9. The discharger shall provide a report to the Regional Board when it determines that the plant is operating at 80 percent of the total design capacity specified in Finding No. 3. The report should indicate what steps, if any, the discharger intends to take to provide for expected wastewater treatment capacity necessary when the plant reaches design capacity.
10. The discharger shall not accept waste in excess of the total design capacity of the plant specified in Finding No. 3.

I, Philip A. Gruenberg, 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 17, 1990.


Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 90-008
 FOR
 HEBER PUBLIC UTILITY DISTRICT
 Heber - Imperial County

Location of Discharge: Central Drain 3-D No. 1 in the NW $\frac{1}{4}$, NE $\frac{1}{4}$, Section 28,
 T16S, R14E, SBB&M

A. EFFLUENT MONITORING

Wastewater discharged into Central Drain 3-D No.1 shall be monitored for the following constituents. All grab samples shall be taken between 6 a.m. and 6 p.m. A sampling station shall be established at the point of discharge and shall be located where representative samples of the effluent can be obtained.

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD ₅	mg/l	24-Hour Composite	Monthly
Suspended Solids	mg/l	24-Hour Composite	Monthly
Settleable Matter	ml/l	Grab at Peak Flow	Weekly
pH	pH Units	Grab	Weekly
Dissolved Oxygen	mg/l	Grab	Monthly
Flow	gpd	Flowmeter Reading	Reported ¹ Monthly
Bioassay			Annually

B. INFLUENT MONITORING

The wastewater influent to the treatment facilities shall be monitored monthly for 20°C BOD₅ and for Suspended Solids, using 24-hour composite samples.

C. SLUDGE MONITORING

The discharger shall report the quantity of sludge generated (in tons/year, wet or dry basis) and the current method and location of its disposal.

D. OPERATION AND MAINTENANCE

<u>Activity</u>	<u>Reporting</u>
To inspect and document any operational and maintenance problems by reviewing each unit process.	Yearly

¹Recorded each day with average monthly flow calculated.

MONITORING REPORTS

Monthly and weekly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Annual reports shall be submitted by January 15th of each year. All monitoring reports shall be submitted to:

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

A copy of the Discharge Monitoring Report shall also be sent to:

Regional Administrator
Environmental Protection Agency
Region 9, Attn: 65/MR, W-3
215 Fremont Street
San Francisco, CA 94105

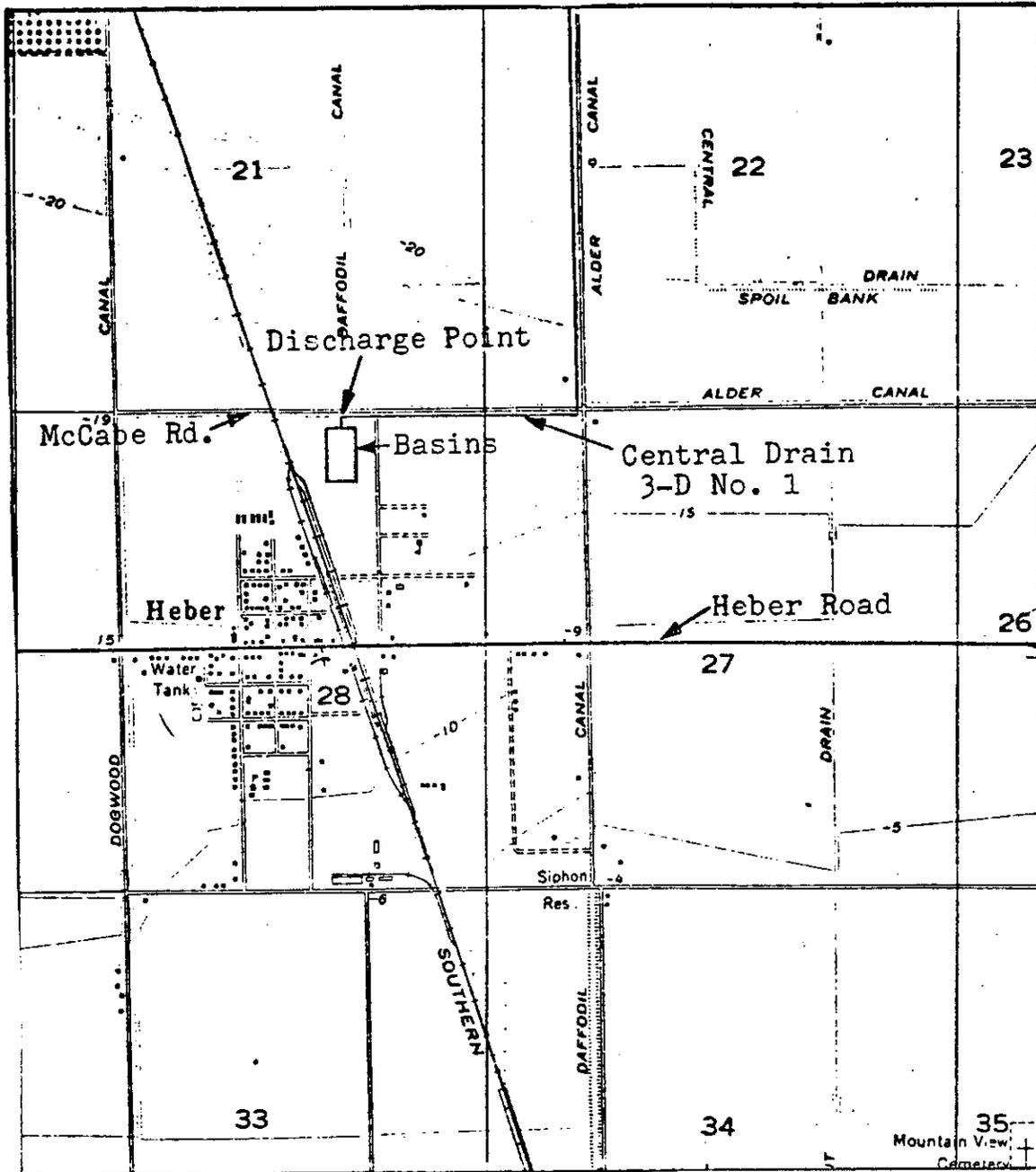
ORDERED BY:

Philip A. Greenberg
Executive Officer

January 17, 1990

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



SITE MAP
 HEBER PUBLIC UTILITY DISTRICT
 Heber, Imperial County
 NW¼, NE¼ of Section 28, T16S, R14E, SBB&M
 USGS Heber 7.5 min. Topographic Map

Order No. 90-008