

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 92-004

WASTE DISCHARGE REQUIREMENTS
FOR
KUHN FARMS DAIRY
Imperial County

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

1. Kuhn Farms Dairy (hereinafter referred to as the discharger), 1625 Drew Road, El Centro, California 92243, submitted a report of waste discharge on January 8, 1992.
2. The discharger proposes that the dairy will be placed toward the eastern most portion of the 228-acre ranch located in the south half of Section 8, T16S, R12E, SBB&M to the east side of Jeffrey Road along the south side of the SD and AE railroad tracks.
3. The discharger proposes a 4,000 head dairy, planned for construction in two phases of 2,000 head each. Raw water for drinkers and wash-down would be obtained from the Imperial Irrigation District Forget-Me-Not Canal, Delivery 14 and stored in a narrow, earthen settling basin/reservoir placed along the east property boundary. The dairy area would be drained from the central milk-house area to the east and west down a northerly slope to one long retention channel placed along the south side of the railroad right-of-way. The channel would be sized to accommodate a 100-year storm runoff from the dairy and surrounding drainage area. The tile lines directly under the dairy site will be closed off.
4. Process/wash-down water would be returned to the open irrigation head ditch for either sprinkle or flood irrigation of the surrounding ranch crops from the above retention channel. Tailwater would be recovered via a pump-back system to create a closed water discharge system. The milk-house at the dairy would be used for milk collection and storage without any processing performed at the proposed site. The raw milk will be pumped into truck transfer tankers and transported to other facilities for processing.
5. The discharge consists of manure solids, wash water, and storm water runoff containing manure from confined animal facilities.
6. The dairy has approximately 160 acres available for wastewater application which surrounds the dairy site. Annual sudan pasture and other non-food chain crops will be grown on this acreage. With the existing irrigation system, wastewater can be applied to the pasture.
7. The dairy would produce approximately 7,000 tons of manure per year from the corrals. The manure is maintained in piles and called the manure storage area. This manure would be hauled off-site.

*Superseded
by: Found Order
No. 98-074
6/11/98*

8. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted May 15, 1991 and designates the beneficial uses of ground and surface waters in this Region.
9. The beneficial uses of waters in the Imperial Valley Drains are:
 - a. Fresh Water Replenishment of Salton Sea (FRSH)
 - b. Noncontact Water Recreation (REC II)
 - c. Warm Water Habitat (WARM)
 - d. Wildlife Habitat (WILD)
 - e. Preservation of Rare, Endangered or Threatened Species (RARE)
 - f. Water Contact Recreation (REC I)
10. The designated beneficial uses of ground waters in the Imperial Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
11. Within the Imperial Valley area of the Imperial Hydrologic Unit, much of the ground water is too saline for municipal use. The existing municipal use in this area is practically inconsequential.
12. The Board has notified the discharger and all known interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.
13. The Board in a public meeting heard and considered all comments pertaining to this discharge.
14. Imperial County, acting as lead agency, processed and approved Negative Declaration SCH No. 91101058 on January 7, 1992 for this project in accordance with the California Environmental Quality Act and State guidelines. The below waste discharge requirements are designed to assure against any significant adverse effects on water quality.

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

A. Discharge Specifications:

1. The discharge shall not cause a pollution of ground or surface waters.
2. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Sections 13050(1) and 13050(m) of Division 7 of the California Water Code.
3. For surface water protection:
 - a. The dairy waste facilities shall have the capacity to retain any wash water generated, plus the surface drainage from manure storage areas during a 100-year, 24-hour storm.

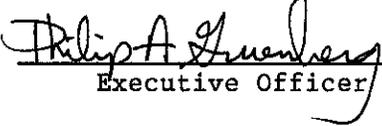
- b. Wash water and surface drainage from manure storage areas may be applied to cropland. Such applications shall not result in surface runoff from cropland.
 - c. Croplands that have received animal wastes shall be managed to minimize erosion and runoff. Dry manures applied to cultivated croplands shall be incorporated into the soil soon after application.
 - d. Animals in confinement shall be prevented from entering surface water.
 - e. All precipitation and surface drainage outside of manured areas, including that collected from roofed areas, shall be diverted away from manured areas, unless such drainage is fully retained.
 - f. The tile lines beneath the dairy shall be plugged to prevent any drainage flow into the Dixie Drain.
4. For ground water protection:
- a. Manure storage areas shall be managed to minimize percolation of water into underlying soils.
 - b. Application of wastewater to cropland and disposal fields shall be managed to minimize percolation to ground water.
 - c. Animal confinement facilities shall have adequate surface drainage to prevent continuous accumulation of surface water in corrals and feed yards.
 - d. Application of manures and wash waters to croplands shall be at rates which are reasonable for the crop, soil, climate, special location situation, management system, and type of manure.
 - e. The salt in animal rations should be limited to that required to maintain animal health and optimum production.
 - f. Wastewater retention ponds shall be lined with or underlain by soils which have a permeability of not greater than 1×10^{-6} cm/sec.
5. Except for runoff which results from a storm exceeding a 100-year, 24-hour frequency, the discharge of water containing animal waste from property under the control of the discharger is prohibited.

B. Provisions

1. The discharger may be required to submit technical reports as directed by the Executive Officer.
2. Before the number of animal units are increased above the level stated in the Findings, the discharger shall submit a technical report which clearly demonstrates that the increase will not be a threat to water quality.

3. Prior to the use of any new waste retention ponds, a report completed by a California certified engineer or engineering geologist verifying that the excavation meets all requirements of this Order shall be submitted to the Regional Board.
4. The discharger shall comply with "Monitoring and Reporting Program No. 92-004", and future revisions thereto, as specified by the Regional Board's Executive Officer. The discharger's monitoring program is described in the technical report entitled, "Ground Water Study, KF (Kuhn Dairy), January, 1992."
5. The discharger shall report to the Board any material change or proposed change in the character, location or volume of the discharge.
6. Prior to any modifications in this facility which would result in material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the discharger shall report all pertinent information in writing to the Regional Board; and obtain revised requirements before any modifications are implemented.
7. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to the Board.
8. The requirements prescribed herein do not authorized the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under federal, state, or local laws.
9. Monitoring wells shall be samples semi-annually (in April and October) and the water analyzed for nitrate and total dissolved solids (TDS). Ground water elevation and gradient shall be determined at the same time. Results shall be submitted with the annual report.
10. A copy of these waste discharge requirements shall be maintained at the facility and be available at all times to system operating personnel.
11. The Board will review this Order periodically and may revise requirements when necessary.

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 March 11, 1992.



Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 92-004

FOR
KUHNS FARMS DAIRY
Imperial County

MONITORING

The discharger shall inspect waste holding and disposal areas and note any discharges off of property under the control of the discharger. Inspections will be made daily when wastewater and/or manure are being applied to cropland and weekly during other periods. The results of all inspections will be recorded for submittal with the required reports.

Monitoring wells shall be sampled semi-annually (in April and October) and the water analyzed for nitrate and total dissolved solids (TDS). Ground water elevation and gradient shall be determined at the same time. Results shall be submitted with the annual report.

REPORTING

1. Notification of Release of Discharge:

The discharger shall notify the Regional Board within 72 hours of any off-property discharge of facility wastewater or manure. This notification will be followed by a written report which shall be submitted to the Regional Board within two weeks of the discharge. The written report shall contain:

- a. Date discharge began;
- b. Duration of discharge;
- c. Point of discharge;
- d. Specific source of waste discharged (e.g., overflow from holding pond, rainfall runoff from manure storage areas, etc.); and
- e. Steps taken to prevent runoff in the future.

2. Annual Report:

A written report covering the calendar year shall be submitted to the Regional Board by the 15th of January of the following year. The report shall provide the following information:

- a. Logs of inspections made during the year;
- b. Any changes in the facility or farming operation which may influence dairy waste management;

- c. Results of the ground water monitoring;
- d. Volume of wastewater used for irrigation; and
- e. Volume of sludge discharges.

The discharger shall implement the above monitoring program upon the effective date of this Order.

Send the above to:

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

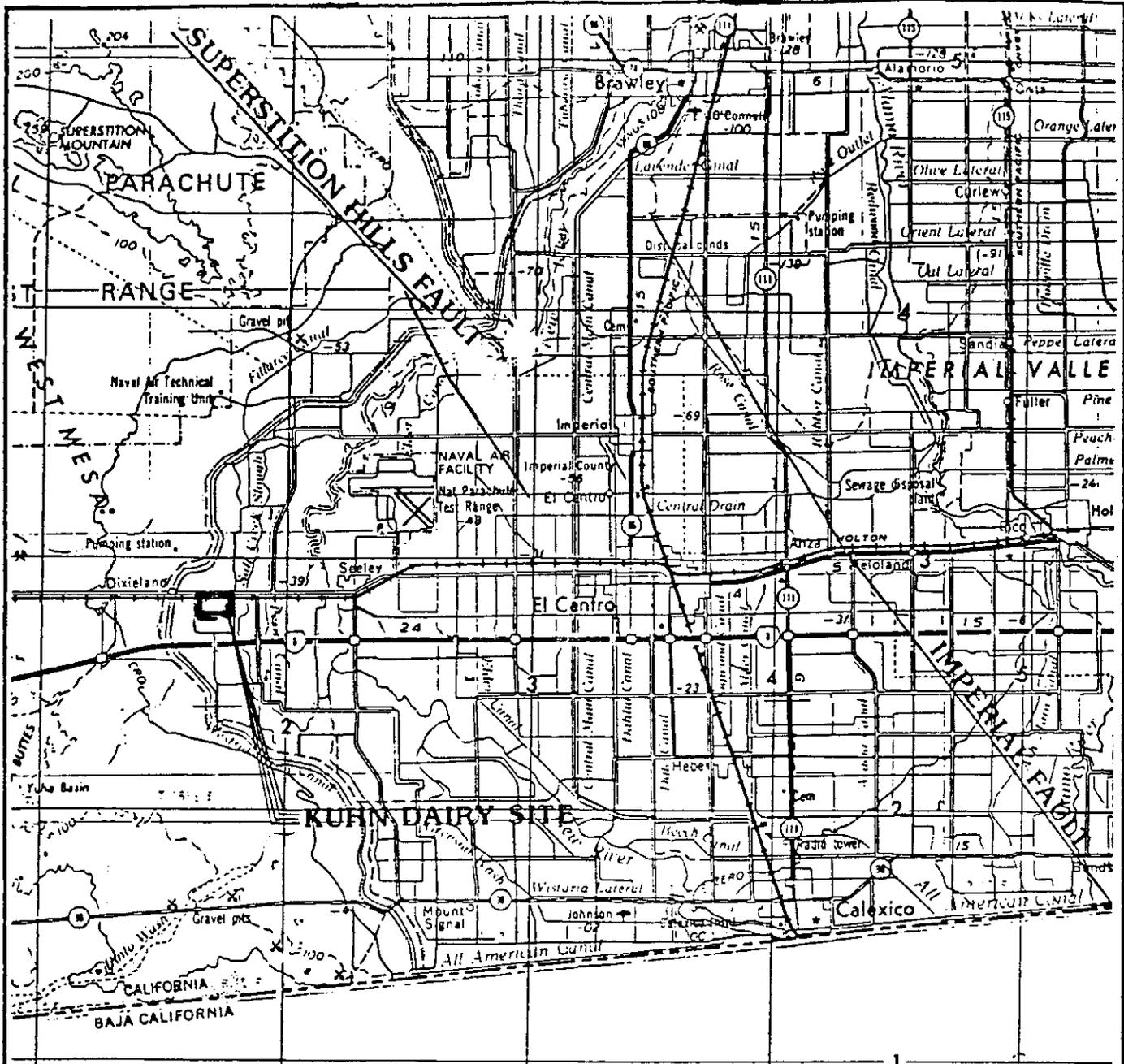
ORDERED BY:

Philip A. Gumbert
Executive Officer

March 11, 1992

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



SITE LOCATION

KUHN FARMS DAIRY
 Imperial County
 Section 8, T16S, R12E, SBB&M