

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 91-027

WASTE DISCHARGE REQUIREMENTS
FOR
COUNTY OF IMPERIAL
CALEXICO WASTE MANAGEMENT FACILITY
CLASS III LANDFILL
CLASS II SURFACE IMPOUNDMENTS
West of Calexico - Imperial County

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

1. The County of Imperial (hereinafter also referred to as the discharger), 155 South 11th Street, El Centro, CA 92243, operates a Waste Management Facility (WMF) located three miles west of Calexico, on Hammers Road, south of Highway 98 in the N½ of Section 16, T17S, R14E, SBB&M as shown in Attachment A incorporated herein and made a part of this Board Order.
2. The property is owned by the Imperial Irrigation District (hereinafter referred to as the discharger), 1284 Main Street, El Centro, California, 92243. The total site area is 108 acres.
3. The discharger submitted a Report of Waste Discharge dated January 8, 1991. The discharger submitted a Solid Waste Assessment Testing (SWAT) proposal and report dated June 24, 1988 and August 9, 1989, respectively.
4. The SWAT proposal and report contains technical information describing the site hydrogeology, topography, disposal operation and waste classification. In view of the technical information, regarding municipal landfills, that has become available, it is appropriate that the Regional Board adopt revised requirements for the Calexico Waste Management Facility to include more stringent requirements to protect the quality of the ground water in the vicinity of the site.
5. The Calexico Waste Management Facility (WMF) has been subject to waste discharge requirements under Board Order No. 88-072 which was adopted by the Regional Board on June 30, 1988. The waste discharge requirements are being updated to comply with Section 13263 of the California Water Code, and to incorporate the applicable provisions of Chapter 15, Division 3, Title 23 of the California Code of Regulations (hereinafter also referred to as Chapter 15).
6. The discharger reports that an average of 47 tons per day of non-hazardous solid waste, as defined in Chapter 15, Division 3, Title 23 of the California Code of Regulations are being discharged at the WMF.

The non-hazardous solid waste consists of garbage, rubbish, demolition materials, dead animals, abandoned automobiles, sewage sludge residue, household trash, plant residue and empty cleansed pesticide containers.

9-15-93
adopted
amended
order
93-071

Superseded by
Bd Ord # 97-008
1/22/97

8. The empty, triple-rinsed and punctured pesticide containers are disposed of into separate cells which are fenced and opened only at posted hours when an attendant is present to accept the pesticide containers.
9. In addition to the solid waste described in Finding No. 7 above, the discharger reports that an average of 900 gallons per day of septic tank pumpings and chemical toilet wastes are disposed of into two unlined disposal cells that are separated from the solid waste landfilling area.
10. The discharger maintains two unlined geothermal drilling mud and cutting disposal ponds at the WMF. An average of 3,000 gallons-per-day were disposed of at this WMF in 1989. The discharger reports that the ponds were not used since December, 1989.
11. The total remaining capacity of this WMF is 2,858,000 cubic yards. It has an estimated remaining life of 24 years. The total quantity of solid waste disposed of at the WMF is currently 917,300 cubic yards.
12. Solid waste disposal at the WMF is accomplished by the cut-and-fill method of operation. This operation consists of a working face of an average width of 120 feet in front of which refuse is placed. The waste is compacted and covered with a minimum of 6 inches of soil. The landfill cells are built to a height of 10 feet above land surface.
13. The Calexico WMF is located on the banks of the New River in the center of the Imperial Valley. The site is situated on a large cut-off bend of the New River. The site is underlain by Pleistocene lacustrine (Lake Cahuilla) deposits consisting of silt, sand and clay.
14. Elevation on the site ranges from 6 to 25 feet below mean sea level (m.s.l.).
15. Ground water depth measured in July 1989 in monitoring wells constructed as part of the SWAT program is about 45 feet below m.s.l. The discharger reports that ground water flow in the vicinity of the WMF is toward the northeast. The discharger constructed seven ground water monitoring wells at the WMF.
16. Analyses of ground water samples collected from the monitoring wells at the WMF in May 1989, indicate that the total dissolved solids content range between 1,310 mg/l to 11,000 mg/l.
17. The average annual precipitation is in the range of 2 to 3 inches. Evaporation rate is in excess of 72 inches.
18. The New River is located adjacent to the WMF. Water quality data collected by the Regional Board in September 1990 indicate that total dissolved solids concentration in the river ranges from 2,251 to 2,765 mg/l.
19. Land within 1,000 feet of this site is zoned for agriculture. This zoning and land use is compatible with the disposal facility.

20. It appears that the WMF characteristics are not sufficient to ensure protection of the quality of the ground water in the vicinity of the site. It is not feasible to remove the wastes already in place and retrofit the site with clay or synthetic liners and leachate collection and removal systems as specified in Article 4 of Chapter 15. New waste management units may be required to have adequate liner and leachate collection and removal systems pending the evaluation of the results of the SWAT verification work.

21. The Water Quality Control Plan for the Colorado River Basin Region of California designates the beneficial uses of ground and surface waters in this Region.

22. The designated beneficial uses of ground waters in the Imperial Hydrologic Unit are:

- a. Municipal supply (MUN)
- b. Industrial supply (IND)

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 Unit is practically inconsequential.

23. The beneficial uses of waters in the New River 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 Endangered or Threatened Species (END)

24. 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 Endangered or Threatened Species (END)

25. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.

26. The Board in a public meeting heard and considered all comments pertaining to this discharge.

27. In accordance with Section 15301, Chapter 3, Title 14, of the California Code of Regulations, the issuance of these waste discharge requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.).

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

A. Discharge Specifications

1. Pending evaluation of the SWAT investigation results, new solid waste management units constructed on top of virgin land (land which does not contain solid waste) may be required to have adequate liner and leachate collection and removal systems in accordance with Chapter 15.
2. All liquid waste management units must have adequate liner and leachate collection and removal systems in accordance with criteria contained in Chapter 15 for Class II surface impoundments. Discharge of liquid waste to the presently unlined ponds must cease by May 1, 1992.
3. Only drilling mud and cuttings which have extractable water containing a total dissolved solids concentration which is less than 4000 mg/l, and not containing hazardous constituents or radioactive levels above regulatory concern, may be discharged at this site prior to May 1, 1992.
4. A minimum depth of freeboard of two (2) feet shall be maintained at all times in the units containing liquid waste.
5. 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.
6. Waste materials shall be confined to the waste management facility as described on the attached site maps.
7. Waste material shall not be discharged on any ground surface which is less than five feet above the highest anticipated ground water level.
8. This discharge shall not cause degradation of any water supply.
9. The waste management units shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods having a predicted frequency of once in 100 years.
10. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at this site.
11. The exterior surfaces of the disposal area, including the intermediate and final landfill covers, shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.
12. The discharger shall provide a final cover for closure of the landfill units in conformance with the requirements of Chapter 15.
13. Chemical toilet wastes discharged at this site shall not contain additives prohibited by Section 66883, Chapter 30, Title 22 of the California Code of Regulations.
14. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.

15. Water used for site maintenance shall be limited to amounts necessary for dust control.
16. No solid waste shall be placed in ponded water.
17. The discharger shall maintain a hazardous waste load checking program at the WMF. The discharger shall report the findings of said program in the quarterly monitoring reports submitted in accordance with Provision C.5 of this Board Order.

B. Discharger Prohibitions

1. The discharge or deposit of hazardous waste (as defined in Chapter 15) at this site is prohibited.
2. The discharge of liquid or semi-solid waste (i.e., waste containing less than 50 percent solids) to the landfill units is prohibited.
3. The discharge of wastes to surface waters, surface water drainage courses, or to ground waters is prohibited.
4. The discharge or deposit of waste to land not owned or controlled by the discharger is prohibited.
5. The codisposal of incompatible wastes is prohibited.

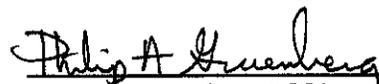
C. Discharge Provisions

1. The discharger shall maintain a copy of this Board Order at the site and make it available at all times to site operating personnel.
2. The discharger shall notify the Regional Board, in writing, of any proposed change in ownership or responsibility for construction or operation of the waste management facility.
3. In the event of any change in ownership of the disposal site, the discharger shall notify the succeeding owner or operator in writing of the existence of this Board Order. A copy of that notification shall be sent to the Regional Board.
4. The discharger shall notify the Regional Board of any material change or proposed change in the character, location, or volume of the wastes discharged and of any proposed expansion plans. This notification shall be accompanied by an amended report of waste discharge and any additional information as may be required by the Regional Board's Executive Officer.
5. The discharger shall comply with "Monitoring and Reporting Program No. 91-027", and future revisions thereto, as specified by the Regional Board's Executive Officer.
6. The discharger shall maintain legible records on the volume and type of each waste discharged at the site. These records shall be available for review by representatives of the Regional Board at any time during normal business hours. At the beginning of the post-closure maintenance period, copies of these records shall be sent to the Regional Board.

7. The discharger shall maintain visible monuments identifying the boundary limits of the entire waste management facility.
8. The discharger shall immediately notify the Regional Board of any flooding, slope failure or other change in site conditions which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
9. One year prior to the anticipated closure of the facility or any unit (portion) thereof, the discharger shall submit to the Regional Board, for review and approval by the Executive Officer, a closure and post-closure maintenance plan in accordance with Section 2597 of Chapter 15.
10. The discharger shall comply with all applicable provisions of Chapter 15 that are not specifically referred to in this Board Order.
11. All containment structures and erosion and drainage control systems shall be designed and constructed under direct supervision of a California registered civil engineer and shall be certified by the individual as meeting the prescriptive standards and performance goals of Chapter 15.
12. Materials used to construct liners shall have appropriate physical and chemical properties to ensure containment of wastes over the operating life, closure and post-closure maintenance period of the landfill.
13. In-place permeabilities of liners shall be determined in the field using techniques approved by the Executive Officer. Construction methods and quality assurance procedures shall be sufficient to ensure that all parts of the liners are adequate to contain landfill leachate.
14. All waste management units which are lined must have leachate collection and removal systems. Leachate collection sumps shall be designed and operated to keep leachate levels at the minimum needed to ensure efficient pump operation.
15. Materials used to construct leachate collection and removal systems shall have appropriate physical and chemical properties to ensure the required transmission of leachate through the system over the operating life, closure and post-closure maintenance period of the landfill. Materials shall have sufficient strength and thickness to prevent collapse under the pressures exerted by overlying wastes, waste cover materials and equipment used on the landfill.
16. The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.
17. This Board Order is subject to Regional Board review and updating, as necessary, to comply with changing State or Federal laws, regulations, policies, or guidelines, or changes in the discharge characteristics, in three year increments from the effective date of this Board Order.
18. The Regional Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge.

IT IS FURTHER ORDERED that Board Order No. 88-072 be superseded by this Board Order.

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 May 15, 1991.



Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 91-027
 FOR
 COUNTY OF IMPERIAL
 CALEXICO WASTE MANAGEMENT FACILITY
 CLASS III LANDFILL
 CLASS II SURFACE IMPOUNDMENTS
 West of Calexico - Imperial County

Location of Discharge: N½ of Section 16, T17S, R14E, SBB&M

The discharger shall monitor all wastes discharged to the waste management facility and report to the Regional Board as follows:

WASTE MONITORING

<u>Item</u>	<u>Unit</u>	<u>Reporting Frequency</u>
a. Solid waste discharge	Cubic yards	Quarterly
b. Septic tank pumpings and chemical toilet wastes	Gallons	Quarterly
c. Geothermal drilling mud waste	Gallons	Quarterly
d. Pesticide containers	Cubic yards	Quarterly
e. Remaining capacity of the waste management facility	Cubic yards	Quarterly
f. Any wastes discharged other than those allowed in the requirements and in accordance with the hazardous waste load checking program	Type, Volume and Location	Immediately upon becoming aware that the waste has been discharged

GROUND WATER MONITORING

The ground water monitoring wells shall be sampled quarterly during March, June, September and December. The samples shall be analyzed for the following:

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
a. pH	Number	Grab	Quarterly
b. TDS	mg/l	Grab	Quarterly
c. COD	mg/l	Grab	Quarterly

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
d. Ground Water Elevations	Feet (USGS Datum)	Measurement	Quarterly
e. Volatile Organics (EPA Method 524.2)	mg/l	Grab	Quarterly
f. Semi-Volatile Organics (EPA Method 525)	mg/l	Grab	Quarterly
g. Chlorinated Pesticides (EPA method 508)	mg/l	Grab	Quarterly

The collection, preservation and holding times of all samples shall be in accordance with EPA-approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.

REPORTING

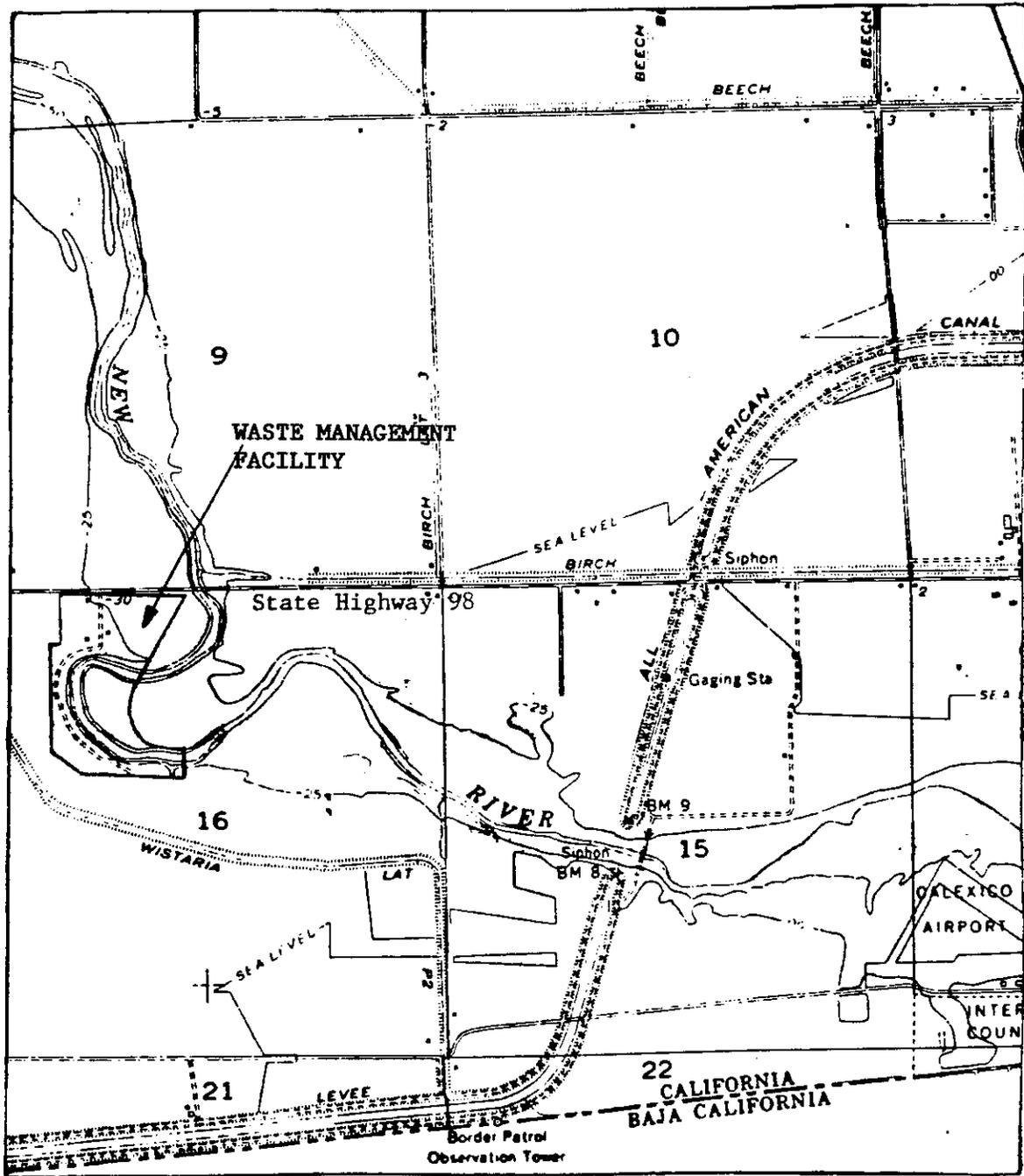
1. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year.
2. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the waste management unit is operating in compliance with waste discharge requirements.
3. Submit 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: Philip A. Gruenberg
Executive Officer

May 15, 1991
Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



Scale:
1" = 2,000'

ATTACHMENT A

COUNTY OF IMPERIAL
 CALEXICO WASTE MANAGEMENT FACILITY
 CLASS III LANDFILL
 CLASS II SURFACE IMPOUNDMENTS
 West of Calexico - Imperial County
 N½ of Section 16, T17S, R14E, SBB&M
 USGS Heber 7.5 min Topographic Map