CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 91-025

WASTE DISCHARGE REQUIREMENTS
FOR
COUNTY OF IMPERIAL
IMPERIAL WASTE MANAGEMENT FACILITY
CLASS III LANDFILL
West of Imperial - 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, submitted a Report of Waste Discharge on January 8, 1991 to update the waste discharge requirements for the existing disposal facility. The Imperial Waste Management Facility (WMF) is located in Tract 209, which is in the W½ of the SE¼ of Section 24, T15S, R12E, SBB&M as shown in Attachment A incorporated herein and made a part of this Board Order. This property is owned by the Imperial Irrigation District (hereinafter also referred to as the discharger), 1284 Main Street, El Centro, CA.

2. The disposal facility has been subject to waste discharge requirements under Board Order No. 88-066 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).

3. The discharger submitted a Solid Waste Assessment Testing (SWAT) proposal on June 24, 1988. The SWAT report is due by July 1, 1991, as required by Section 13273 of the California Water Code.

4. The facility will be reclassified, in accordance with the criteria set forth in Chapter 15, Division 3, Title 23 of the California Code of Regulations for Class III landfills, at the time the SWAT report is reviewed and a determination made as to the need to construct a liner with a leachate collection and removal system in new landfill areas within the facility or to relocate the facility. This will be based on the technical data contained in the SWAT report and other relevant information.

5. The SWAT proposal 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 Imperial Waste Management Facility to include more stringent requirements to protect the quality of the ground water in the vicinity of the site.

9-15-93 adopted amended Order #93071

Superseded by: Bd. Ord. #97-010 1/22/97

6. The discharger operates the disposal facility as a landfill.

   The site presently receives:

   a. Residential refuse
   b. Commercial refuse
   c. Tires
   d. Construction/Demolition wastes
   e. Empty pesticide containers

7. Separate cells have been constructed to accept empty, triple-rinsed and punctured pesticide containers. The pesticide cell is enclosed by a six-foot fence with a locked gate. There is an attendant present during posted hours to accept pesticide containers.

8. All other wastes are disposed of in cells approximately 120 to 160 feet wide and of varying lengths. The bottom of the site is an average of 20 feet below grade. Cells are built with soil to a height of about 10 feet. Waste is unloaded into the cell, then pushed up in 9-foot thick lifts. The waste is covered with a minimum of 12 inches of soil excavated from the south boundary of the site. The cell's interim cover is very similar to the cover placed over lifts of compacted refuse within the cell.

9. The site receives approximately 20 tons per day of non-hazardous solid waste, as defined in Chapter 15. The total capacity of the site is 1,936,000 cubic yards with 1,651,000 remaining. It has an estimated life of 20 years. No fencing is placed around the working area of the site. A 12-inch cover is placed over the working face once every Monday, Wednesday and Friday. The total site area is 60 acres.

10. Land within 1,000 feet of this site is zoned for agriculture use. This zoning and land use is compatible with the disposal facility.

11. This WMF is on the eastern bank of the New River in western Imperial Valley. The site is underlain by Pleistocene lacustrine (Lake Cahuilla) deposits consisting of silt, sand and clay. Maximum elevation at the site is 55 feet below sea level, at the northeast corner of the pesticide cell; south of the main cells. Minimum elevation at the site is 105 feet below sea level, at the extreme west side of the property.

12. Depth-to-ground water is estimated by the County to be 6 feet under most of the site.

13. Ground water quality data for central Imperial Valley is sparse. Sporadic data collected from throughout the central portion of Imperial Valley indicates that the ground water is generally highly mineralized, ranging from 1,300 to 50,000 mg/l in TDS. This site is underlain by soil which is predominantly clay-mixed with sand and silt. Average annual rainfall is 2.92 inches, with annual evaporation averaging from 72 to 84 inches. The prevailing wind is from the west.

14. The disposal site is adjacent to the New River. Water quality data collected by the Regional Board in September, 1990, indicated that the total dissolved solids concentration in the river ranges from 2,251 to 2,765 mg/l.

15. 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.

16. 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.

17. The beneficial uses of waters in the Imperial Valley Drains are:

    a. Fresh Water Replenishment of Salton Sea (FRSH)
    b. Non-contact Water Recreation (REC II)
    c. Warm Water Habitat (WARM)
    d. Wildlife Habitat (WILD)
    e. Preservation of Endangered or Threatened Species (END)

18. 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)

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

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

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

22. 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 disposal 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. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Sections 13050(l) and 13050(m) of Division 7 of the California Water Code.

3. Waste materials shall be confined to the waste management facility as described on the attached site maps.

4. Waste material shall not be discharged on any ground surface which is less than five feet above the highest anticipated ground water level.

5. This discharge shall not cause degradation of any water supply.

6. 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.

7. 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.

8. 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.

9. The discharger shall provide a final cover for closure of the landfill units in conformance with the requirements of Chapter 15.

10. Triple-rinsed, punctured, empty pesticide containers shall be discharged in separate waste management units constructed apart from Class III wastes. The pesticide disposal area shall be enclosed to prevent unauthorized access.

11. No solid waste shall be placed in ponded water.

12. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.

13. Water used for site maintenance shall be limited to amounts necessary for dust control.

14. 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. 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 co-disposal of incompatible wastes is prohibited.

C. Provisions

1. By December 1, 1991, the discharger shall design and construct a ground water monitoring system at the WMF in accordance with the criteria contained in Chapter 15.

2. The discharger shall ensure that all site operating personnel are familiar with the content of this Board Order.

3. 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.

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. 91-025", 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. 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.

9. 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.

10. Prior to any change in ownership or management of the disposal site, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.

11. The discharger shall comply with all applicable provisions of Chapter 15 that are not specifically referred to in this Board Order.

12. 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.

13. 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.

14. 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.

15. Each waste management unit which is required to be lined shall have a leachate collection and removal system. Leachate collection sumps shall be designed and operated to keep leachate levels at the minimum needed to ensure efficient pump operation. Disposal of collected leachate shall be in accordance with local, state and federal regulations.

16. 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.

17. 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.

18. 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.

19. 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. 88-066 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.

Philip A Gruenberg
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 91-025
FOR
COUNTY OF IMPERIAL
IMPERIAL WASTE MANAGEMENT FACILITY
CLASS III LANDFILL
West of Imperial - Imperial County

Location of Discharge: Tract 209, which is in the W½ of the SE¼ of Section 24, T15S, R12E, SBB&M

WASTE MONITORING

The discharger shall monitor all wastes discharged to the disposal site and report to the Regional Board the following:

Item	Unit	Reporting Frequency
1. Refuse discharged	Cubic Yards	Quarterly
2. Pesticide containers discharged	Cubic Yards	Quarterly
3. 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 been discharged
4. Landfill capacity remaining	Cubic Yards	Quarterly

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:

Parameters and Constituents	Units	Type of Sample	Sampling Frequency
a. pH	Number	Grab	Quarterly
b. TDS	mg/l	Grab	Quarterly
c. COD	mg/l	Grab	Quarterly
d. Ground Water Elevations	Feet (USGS Datum)	Measurement	Quarterly
e. Nitrate	mg/l	Grab	Quarterly
f. Organic Nitrogen	mg/l	Grab	Quarterly
g. Volatile Organics (EPA Method 524.2)	mg/l	Grab	Quarterly

Parameters and Constituents	Units	Type of Sample	Sampling Frequency
h. Semi-Volatile Organics (EPA Method 525)	mg/l	Grab	Quarterly
i. Chlorinated Pesticide (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

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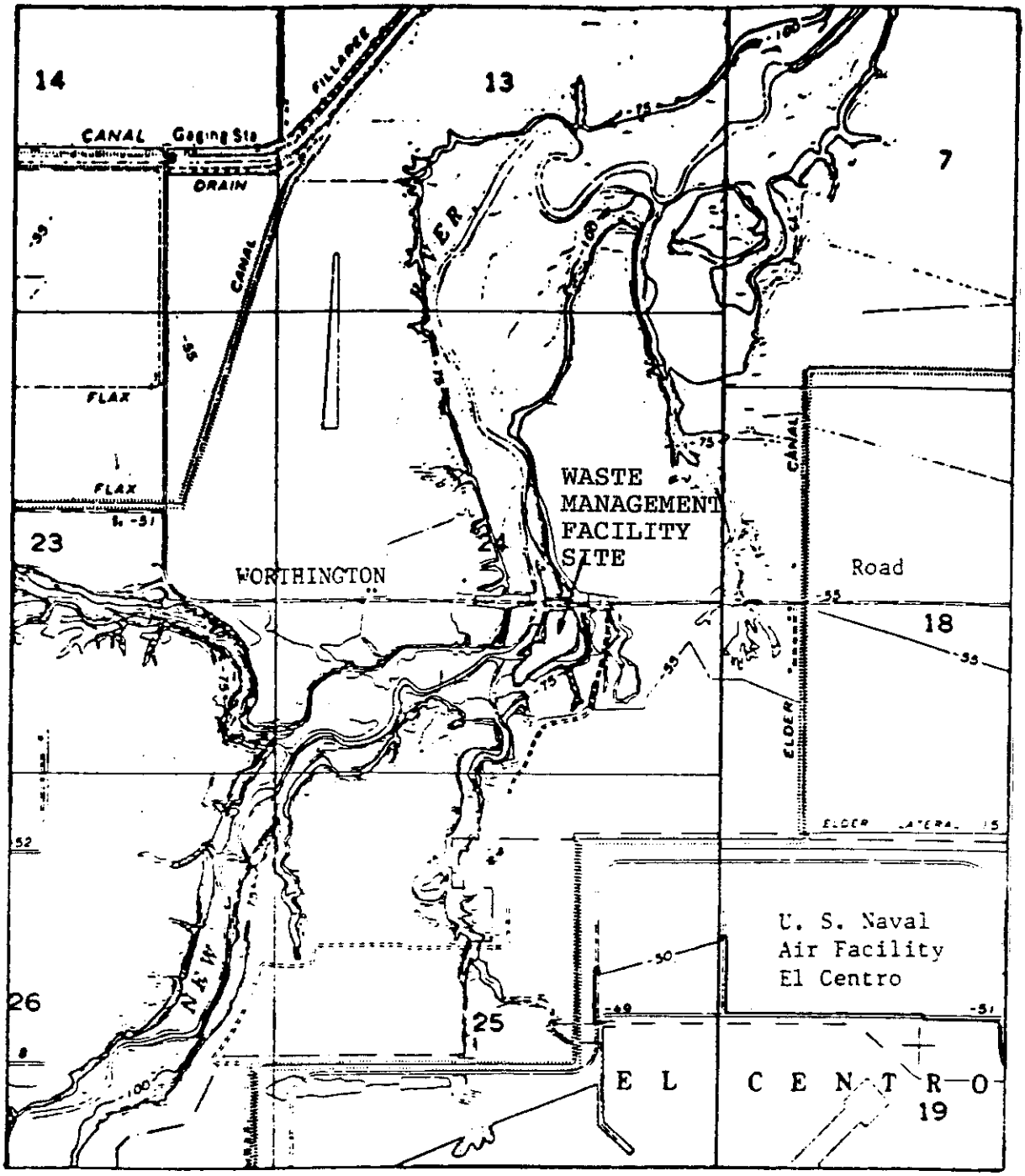

ATTACHMENT A

COUNTY OF IMPERIAL
IMPERIAL WASTE MANAGEMENT FACILITY
CLASS III LANDFILL
West of Imperial - Imperial County
W½, SE¼, Section 24, T15S, R12E, SBB&M

Board Order No. 91-025