

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 91-006

WASTE DISCHARGE REQUIREMENTS
FOR
COUNTY OF RIVERSIDE
MECCA II WASTE MANAGEMENT FACILITY
CLASS III LANDFILL
East of Mecca - Riverside County

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

1. The County of Riverside, (hereinafter also referred to as the discharger), 11728 Magnolia Avenue, Suite A, Riverside, CA 92503, owns and operates a municipal solid waste disposal site in the S $\frac{1}{2}$ of the SW $\frac{1}{4}$ of Section 12, T7S, R9E, SBB&M, as shown in Attachments A and B incorporated herein and made a part of this Board Order.
2. The discharger submitted a Report of Waste Discharge, dated October 10, 1990. The Mecca II Waste Management Facility (WMF) has been subject to waste discharge requirements under Board Order No. 88-053, which was adopted by the Regional Board on May 12, 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, hereafter also referred to as Chapter 15.
3. The discharger submitted a Solid Waste Assessment Testing (SWAT) report on July 2, 1990, as required by Section 13273 of the California Water Code.
4. The SWAT report contains technical information describing the site hydrogeology, topography, disposal operations and waste classification. In view of the technical information that has become available, it is appropriate that the Regional Board adopt revised Waste Discharge Requirements for the Mecca II Waste Management Facility to include more stringent requirements to protect the quality of the ground water in the vicinity of the site.
5. The discharger reports that they are presently discharging 56 cubic yards-per-day of wastes. The site covers 80 acres which includes two separate (but adjacent) disposal fill areas, consisting of 53 acres with a capacity of 1,560,000 cubic yards, and 27 acres of an undetermined capacity for future expansion. The 53 acre site is anticipated to be operational until the year 2004. Berms would be constructed on the disposal site perimeters to provide a visual, sound, wind and drainage barrier to shield operations from adjacent properties.
6. The discharger reports that the site presently receives residential/commercial refuse, plant trimmings, agricultural produce, tires and construction/demolition wastes. The discharger further reports that hazardous wastes and septic wastes are not and will not be accepted.

9-15-93
Adopted
Amended
Order
93-071

Superseded by:
Board Ord. # 99-043
6/25/97

7. Waste disposal at the site is accomplished by the area fill method of landfilling. Waste cells are constructed, compacted and covered on a daily basis.
8. A flood control levee constructed to protect the Coachella Canal from runoff from the Mecca Hills crosses the site upgradient to the north and effectively prevents flood waters from reaching the site.
9. The disposal site is constructed to slope generally to the southwest. The site is underlain by old alluvial deposits, consisting mostly of coarse grained, poorly sorted sands and gravel with some streaks of clay. The soils in the area are highly permeable.
10. Depth-to-ground water at the landfill ranges from 167 to 195 feet. No ground water was encountered in a boring drilled at the site to 45 feet.
11. Annual averages for evaporation and precipitation in the area are 100 inches and 3.3 inches, respectively.
12. The 100-year, 24-hour precipitation event for the site is 3.08 inches.
13. The site is not located within the 100-year floodplain.
14. The disposal site is located approximately one mile southwest of the San Andreas fault zone.
15. The current land use within the area is mainly for irrigated agriculture, with some urban residential sections.
16. The discharger installed three (3) ground water monitoring wells in fulfilling the SWAT requirements outlined in Board Order No. 88-053.
17. Analyses of ground water samples collected from monitoring wells at the site indicate total dissolved solids (TDS) content range from 1400 mg/l to 2600 mg/l. The maximum contaminant level (MCL) for TDS is 1000 mg/l.
18. The SWAT data and the succeeding verification testing of ground water samples from three monitoring wells located at the waste management facility have indicated the presence of hazardous waste constituents in quantities exceeding background values.
19. The WMF characteristics described in Section 2533 (b) (1) of Chapter 15 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 clay or synthetic liners and a leachate collection and removal system as specified in Article 4 of Chapter 15. New waste disposal cells, however, must have adequate liners and a leachate collection and removal system.
20. 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.

21. The beneficial uses of ground waters in the Colorado Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
22. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.
23. The Board in a public meeting heard and considered all comments pertaining to this discharge.
24. 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. New waste management units constructed after January 1, 1994, on top of virgin land (land which does not contain solid waste) must have adequate liner and leachate collection and removal systems, as specified in Chapter 15.
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. Waste materials shall be confined to the waste management facility as described on the attached site maps.
4. 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.
5. Waste material shall not be discharged on any ground surface which is less than five feet above the highest anticipated ground water level.
6. This discharge shall not cause degradation of any water supply.
7. 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.
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. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
11. Water used for site maintenance shall be limited to amounts necessary for dust control.
12. No solid waste shall be placed in ponded water.
13. The discharger shall maintain a hazardous waste load checking program at the WMF. The discharger shall report the findings of program in the quarterly monitoring reports submitted in accordance with Provision C.19 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 or deposit of designated waste (as defined in Chapter 15) at this site is prohibited.
3. The discharge of liquid or semi-solid waste (i.e., waste containing less than 50 percent solids) to the landfill units is prohibited.
4. The discharge of wastes to surface waters, surface water drainage courses, or to ground waters is prohibited.
5. The discharge or deposit of waste to land not owned or controlled by the discharger is prohibited.
6. The codisposal of incompatible wastes is prohibited.

C. Discharge Provisions

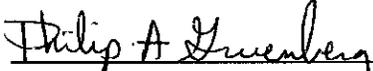
1. The discharger shall maintain a copy of this Board Order at the site and make it available at all times to site operating-personnel.
2. The discharger shall notify the Regional Board, in writing, of any proposed change in ownership or responsibility for construction or operation of the waste management facility.
3. 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.

4. 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.
5. The discharger shall maintain visible monuments identifying the boundary limits of the entire waste management facility.
6. 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.
7. 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.
8. The discharger shall comply with all applicable provisions of Chapter 15 that are not specifically referred to in this Board Order.
9. Prior to any change in ownership or management of this operation, 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.
10. 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.
11. 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.
12. 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.
13. Each disposal cell 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. Leachate collected shall be disposed of in accordance with local, state, and federal regulations.

14. 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.
15. 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.
16. 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, on changes in the discharge characteristics, in three year increments from the effective date of this Order.
17. 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.
18. The discharger shall comply with "Monitoring and Reporting Program No. 91-006", and future revisions thereto, as specified by the Regional Board's Executive Officer.

IT IS FURTHER ORDERED that Board Order No. 88-053 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 March 13, 1991.



Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 91-006

FOR

COUNTY OF RIVERSIDE

MECCA II WASTE MANAGEMENT FACILITY

CLASS III LANDFILL

East of Mecca - Riverside County

Location of Discharge: S½ of SW¼ of Section 12, T7S, R9E, 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 discharged	Cubic Yards	Quarterly
b. Type of materials discharged	-	Quarterly
c. Remaining capacity of the waste management facility	Cubic Yards	Quarterly
d. Any wastes discharged other than those allowed in the requirements	Type, Volume and Location	Immediately upon becoming aware that the waste has been discharged

GROUND WATER MONITORING

The ground water monitoring 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>Reporting Frequency</u>
a. pH	Number	Grab	Quarterly
b. TDS	mg/l	Grab	Quarterly
c. Specific Conductance	micromhos/cm	Grab	Quarterly
d. Temperature	°C	Grab	Quarterly
e. Ground Water Elevations	Feet (USGS Datum)	Measurement	Quarterly
f. Calcium	mg/l	Grab	Quarterly
g. Magnesium	mg/l	Grab	Quarterly
h. Sulphate	mg/l	Grab	Quarterly
i. Sodium	mg/l	Grab	Quarterly

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Frequency</u>
j. Nitrate	mg/l	Grab	Quarterly
k. Organic Nitrogen	mg/l	Grab	Quarterly
l. Volatile Organics (EPA Method 524.2)	mg/l	Grab	Quarterly
m. Semi-Volatile Organics (EPA Method 525)	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.

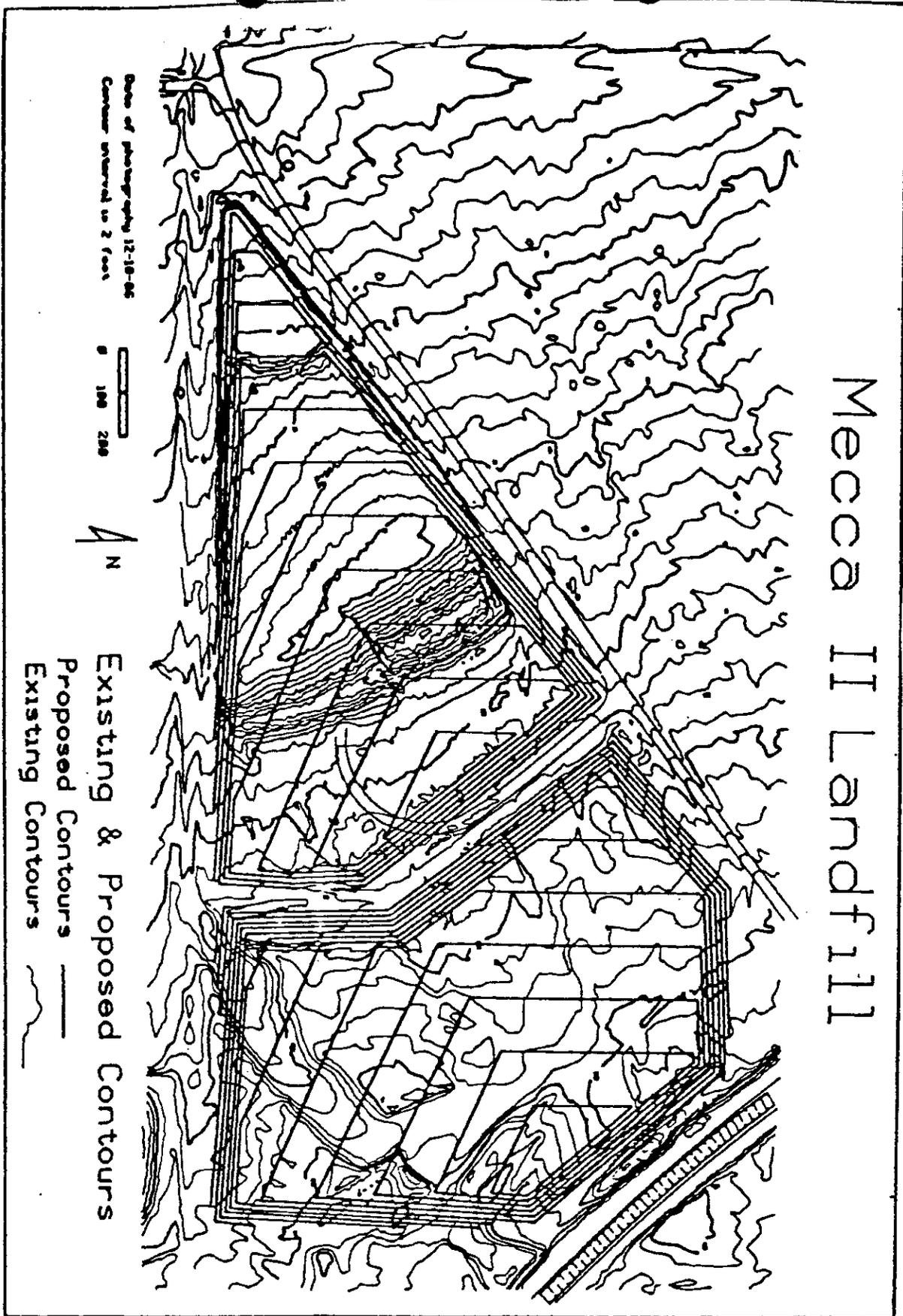
REPORTING

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:

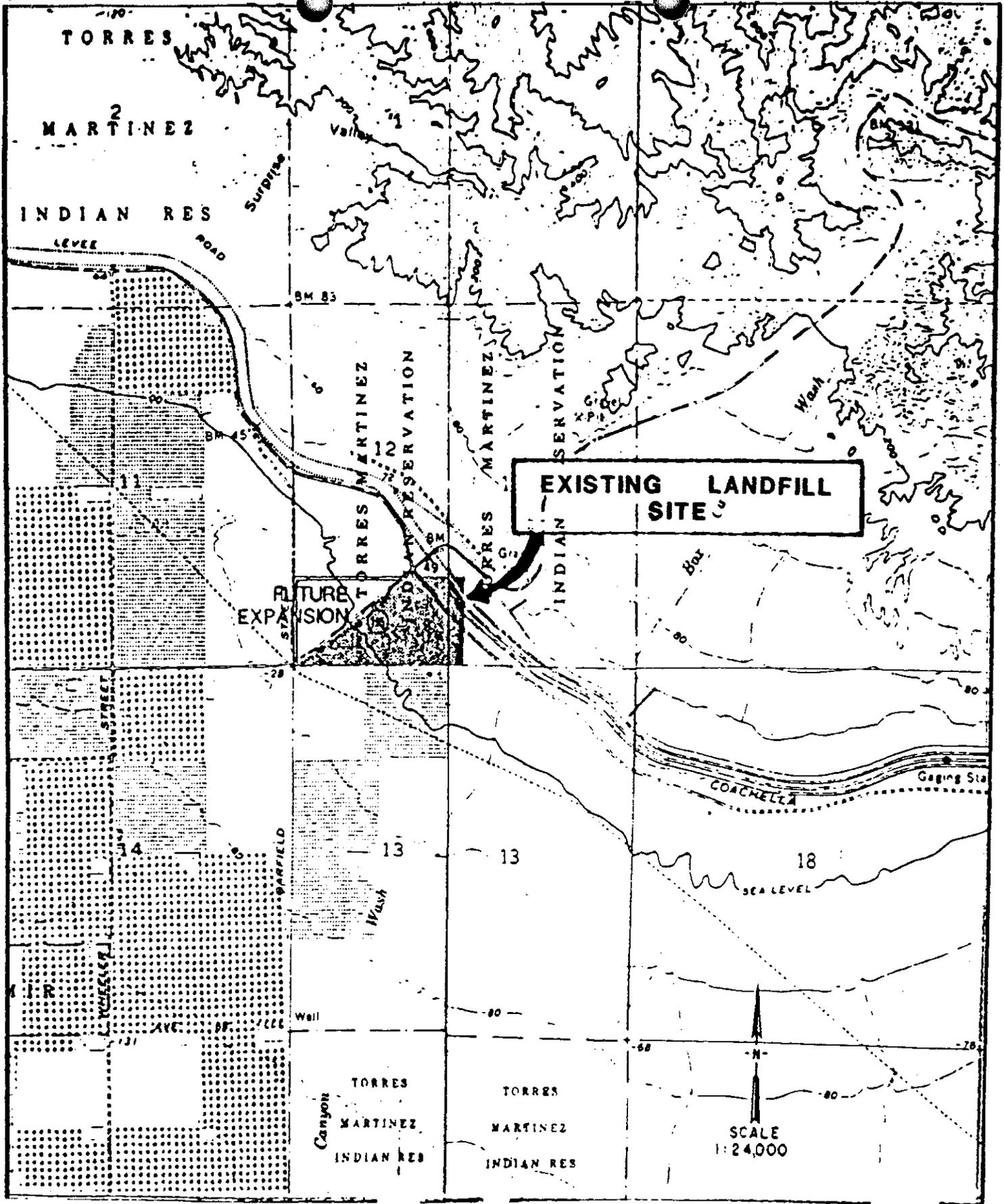
California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

ORDERED BY: Philip A. Greenberg
Executive Officer

March 13, 1991
Date



ATTACHMENT A
COUNTY OF RIVERSIDE
MECCA II WASTE MANAGEMENT FACILITY
CLASS III LANDFILL
East of Mecca - Riverside County



ATTACHMENT B
COUNTY OF RIVERSIDE
MECCA II WASTE MANAGEMENT FACILITY
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