

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 88-71

WASTE DISCHARGE REQUIREMENTS
FOR
COUNTY OF SAN BERNARDINO
LANDERS CLASS III WASTE MANAGEMENT FACILITY
Northwest of Joshua Tree - San Bernardino County

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

1. The County of San Bernardino (hereinafter also referred to as the discharger), 825 East Third Street, San Bernardino, CA 92415, submitted a Report of Waste Discharge and current information on March 21, 1988 to update the waste discharge requirements for the existing waste management facility (WMF). The disposal facility is located in the SE $\frac{1}{4}$ of Section 20, SW $\frac{1}{4}$ of Section 21, NW $\frac{1}{4}$ of Section 28, and NE $\frac{1}{4}$ of Section 29, T2N, R6E, SBB&M. This property is owned by the United States Government, with administration by the Bureau of Land Management.
2. The disposal facility has been subject to waste discharge requirements under Board Order No. 83-37. The waste discharge requirements are being updated to comply with Section 13263 of the California Water Code, and to incorporate the applicable provisions of Subchapter 15, Chapter 3, Title 23 of the California Code of Regulations.
3. The discharger submitted a technical report entitled, "Five-Year Periodic Site Review Report; Landers Sanitary Landfill", dated March 31, 1988, containing technical information on the site and operational data including some of the technical information required in said Subchapter 15.
4. The Solid Waste Assessment Testing (SWAT) report for this facility, required by Section 13273 of the California Water Code, will contain most of the technical information required in said Subchapter 15. The SWAT report is due by July 1, 1988.
5. The facility will be reclassified, in accordance with the criteria set forth in Subchapter 15 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 WMF or to relocate the facility. This will be based on the technical data contained in the SWAT report and other relevant information.
6. The discharger has constructed the ground water monitoring wells required in Article 5 of Subchapter 15.
7. It will be necessary to determine background water quality of the ground water at the facility from a minimum of one year's sampling after which the Regional Board will revise this Order and set numerical limitations on water quality constituents for protection of ground water from the effects of the waste management facility. The revised Order will also include the

*June 26/91
Superseded
By 91-028*

detection and verification monitoring programs and the corrective action program required in Section 2551 of said Subchapter 15.

8. 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. Septic tank pumpings
 - f. Chemical toilet wastes.
9. Separate cells have been constructed to accept the septic tank pumpings and chemical toilet wastes.
 10. The site receives approximately 100 cubic yards per day of refuse. The total capacity of the site is 11,500,000 cubic yards with 11,035,000 remaining. It has an estimated life of 50 years. Total area of the site is 60 acres.
 11. Land within 1,000 feet of this site is zoned for 2½ acre minimum size residential single family dwellings. There are no existing dwellings within 1,000 feet of the site. This land usage is compatible with the disposal facility.
 12. Ground waters in nearby wells range in total dissolved solids concentration from 200 to 210 mg/l. The site is underlain by shallow soils, consisting of silt, sand and gravel, overlying sheared and folded Precambrian gneiss. There is no alluvial ground water aquifer underlying the site. Water occurs only in the rock fractures.
 13. Attachment A, which shows the location of the site, is part of this Order.
 14. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted by the Board on November 14, 1984.
 15. The Basin Plan delineates the location of discharge to be in the Emerson Hydrologic Unit which has the following beneficial uses of ground water:
 - a. Municipal supply
 - b. Agricultural supply
 16. The Board has notified the discharger and interested agencies and persons of its intent to update waste discharge requirements for the existing discharge.
 17. The Board in a public meeting heard and considered all comments pertaining to the existing discharge.
 18. These waste discharge requirements govern an existing facility, which the discharger is currently operating, and therefore is exempt from the provisions of the California Environmental Quality Act in accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations.

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

A. Discharge Specifications

1. The treatment or disposal of waste shall not cause pollution or a nuisance as defined in Section 13050(l) and Section 13050 (m) of the California Water Code.
2. Waste shall be discharged only into waste management units specifically designed for their containment and shall be confined to the waste management facility as shown on Attachment A.
3. Waste material shall not be discharged on any surface which is less than five feet above the highest anticipated ground water level.
4. The discharge shall not cause degradation of surface or ground waters.
5. The waste management units shall be designed, constructed, operated and maintained to prevent inundation or washout due to floods with a 100-year, 24-hour storm.
6. 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.
7. 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.
8. New landfill areas within the waste management facility shall be constructed with a liner and a leachate collection and removal system as technically required, under said Subchapter 15.
9. Septic tank pumpings and chemical toilet wastes shall be discharged in separate waste management units constructed apart from Class III wastes.
10. There shall be no discharge of liquid wastes other than septic tank pumpings and chemical toilet wastes in the designated disposal cells.
11. A minimum freeboard of two feet shall be maintained in the cells containing liquid wastes.
12. 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.
13. No solid waste shall be placed in ponded water.
14. The discharger shall remove and properly relocate any wastes which are discharged at this site in violation of these requirements.

B. Prohibitions

1. The discharge or deposit of hazardous waste (as defined in said Subchapter 15) at this site is prohibited.

2. The discharge or deposit of designated waste (as defined in said Subchapter 15) at this site is prohibited unless otherwise approved by the Executive Officer.
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 solid or liquid waste or leachate to surface waters, surface water drainage courses or to ground waters is prohibited.

C. Provisions

1. The discharger shall maintain a copy of this 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 develop background water quality data of the ground water at the site, as specified by Section 2595(g)(7) in said Subchapter 15. Samples shall be collected quarterly from the background monitoring wells and analyzed for each of the parameters and constituents listed in Monitoring and Reporting Program No. 88-71. During each sampling a minimum of four discrete samples shall be taken from the background monitoring wells.
5. 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 Board at any time during normal business hours.
6. The discharger shall maintain monuments identifying the boundary limits of the entire waste management facility.
7. By May 1, 1989, the discharger shall submit to the Regional Board and to the State Department of Health Services for review and approval, a report describing a periodic load-checking program to be implemented by the discharger to ensure that wastes prohibited by this Order are not discharged to the disposal site.
8. One year prior to 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 said Subchapter 15.
9. The discharger shall comply with "Monitoring and Reporting Program No. 88-71" and future revisions thereto, as specified by the Regional Board's Executive Officer.

10. By September 1, 1988, the discharger shall submit to the Regional Board for approval by the Executive Officer, a plan and time schedule for compliance with the requirements of the following sections of said Subchapter 15:
 - a. Section 2555: General Ground Water Monitoring Requirements
 - b. Section 2595: Waste Management Unit Characteristics
 - c. Section 2596: Design Report and Operations Plan

11. 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.

12. Annually, prior to the 1st day of November, any necessary erosion control measures shall be implemented and any necessary construction, maintenance, or repairs of precipitation and drainage control facilities shall be completed to prevent erosion or flooding of the site. The completion of this work shall be reported to the office of the Regional Board by November 15 of each year.

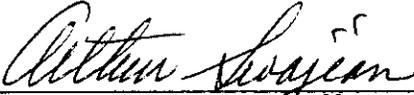
13. Water used for site maintenance shall be limited to the minimum amount necessary for dust control.

14. 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 Order. A copy of that notification shall be sent to the Regional Board.

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

16. This Order supersedes Board Order No. 83-37.

I, Arthur Swajian, 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 12, 1988.


Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 88-71
FOR
COUNTY OF SAN BERNARDINO
LANDERS CLASS III WASTE MANAGEMENT FACILITY
Northwest of Joshua Tree - San Bernardino County

Location of Discharge: SE $\frac{1}{4}$ Section 20, SW $\frac{1}{4}$ Section 21, NW $\frac{1}{4}$ Section 28, NE $\frac{1}{4}$ Section 29, T2N, R6E, SBB&M

WASTE MONITORING

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

<u>Item</u>	<u>Unit</u>	<u>Reporting Frequency</u>
1. Solid Wastes Discharged	Cubic Yards	Quarterly
2. Septic Tank Pumpings and Chemical Toilet Wastes Discharged	-	Quarterly
3.. Any Wastes Discharged Other Than Those Allowed in the Requirements	Type, Volume and Exact Location	Immediately Upon Becoming Aware that the Waste has been Discharged
4. Landfill remaining capacity	Percent	Annually

GROUND WATER MONITORING

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

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Frequency</u>
1. pH	Number	Grab	Quarterly
2. TDS	mg/l	Grab	Quarterly
3. Specific Conductance	micromhos/cm	Grab	Quarterly
4. Temperature	°C	Grab	Quarterly

<u>Parameters and Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Frequency</u>
5. COD	mg/l	Grab	Quarterly
6. Calcium	mg/l	Grab	Quarterly
7. Magnesium	mg/l	Grab	Quarterly
8. Sulphate	mg/l	Grab	Quarterly
9. Sodium	mg/l	Grab	Quarterly
10. Nitrate	mg/l	Grab	Quarterly
11. Ground Water Elevations (USGS Datum)	Feet	Measurement	Quarterly
12. Volatile Organics (EPA Methods 601, 602)	ug/l	Grab	Quarterly

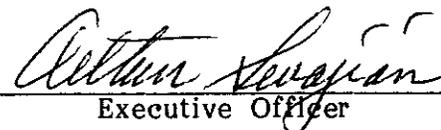
The collection, preservation and holding times of all samples shall be in accordance with EPA approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.

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. Annual monitoring reports shall be submitted by the 15th day of January of each year, except that the reporting required under Provision No. 12 of Order No. 88-71 shall be submitted by November 15 of each year.
2. Monitoring reports shall be certified under penalty of perjury to be true and correct and shall contain the required information at the frequency designated in the monitoring program.
3. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such manner as to clearly illustrate whether the waste management facility is operating in compliance with waste discharge requirements.
4. Submit monitoring reports to:

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

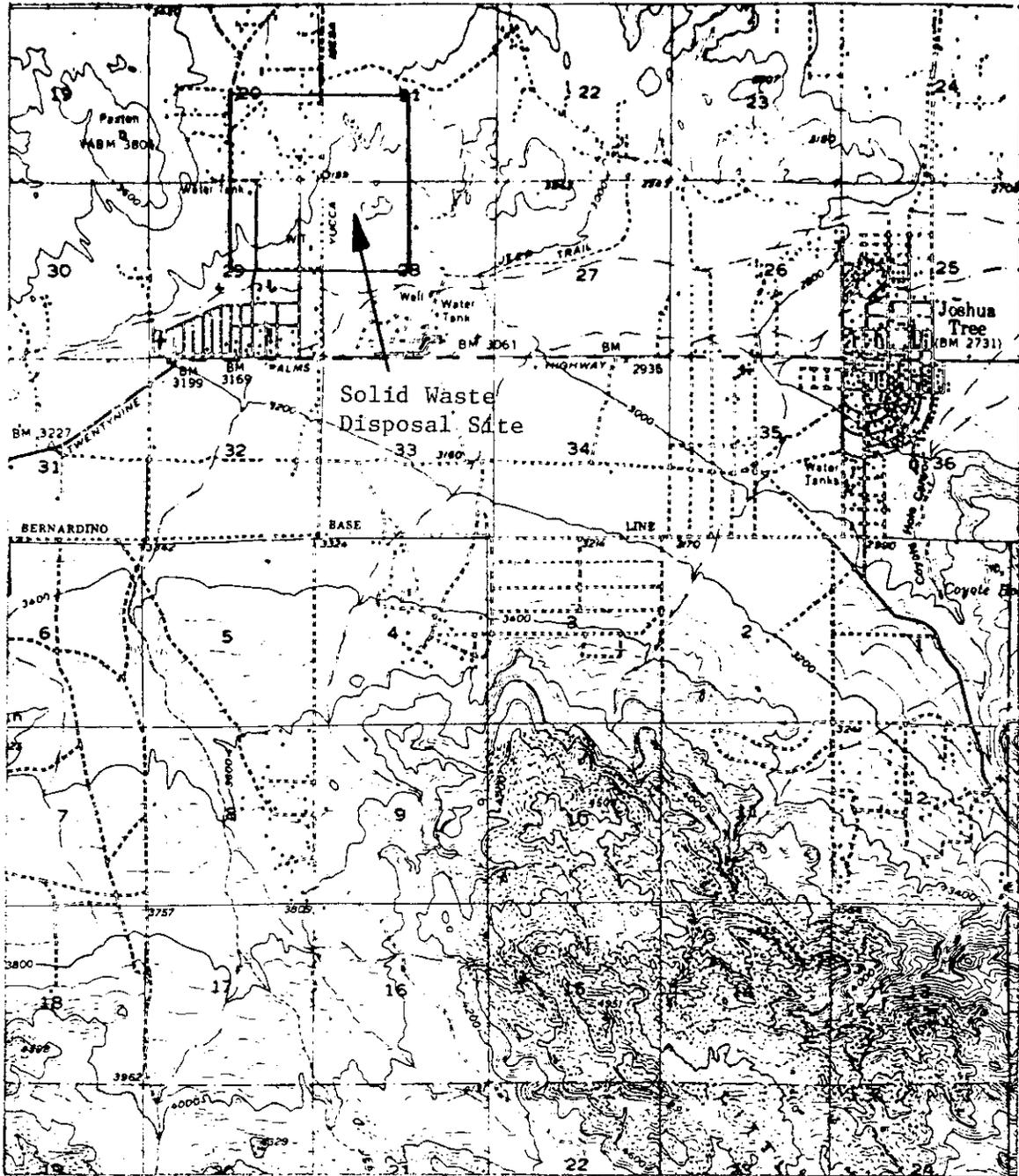
ORDERED BY:


Executive Officer

May 12, 1988

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



Scale:
1 in. = 1 mile

ATTACHMENT A

COUNTY OF SAN BERNARDINO
LANDERS CLASS III WASTE MANAGEMENT FACILITY

Northwest of Joshua Tree - San Bernardino County

SE $\frac{1}{4}$ Section 20, SW $\frac{1}{4}$ Section 21, NW $\frac{1}{4}$ Section 28, and NE $\frac{1}{4}$ Section 29, T2N, R6E, SBB&M
USGS 15 min. Topographic Map - Joshua Tree Quadrangle