

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 90-039

WASTE DISCHARGE REQUIREMENTS
FOR
MASSEY SAND AND ROCK COMPANY
WASTE MANAGEMENT FACILITY FOR INERT WASTES
North of Indio - Riverside County

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

1. Massey Sand and Rock Company (hereinafter also referred to as the discharger), 43850 Monroe Street, P. O. Box 1767, Indio, California 92202, submitted current information dated January 12, 1990 to update the waste discharge requirements for an existing waste management facility (WMF) for inert waste north of Indio.
2. The inert waste WMF is located in the SW $\frac{1}{4}$, SE $\frac{1}{4}$ of Section 34, T4S, R7E, SBB&M as shown in Attachments "A" and "B", which are incorporated herein and made part of this Board Order.
3. This facility has been subject to waste discharge requirements adopted by the Regional Board on May 22, 1985 (Board Order No. 85-046). These waste discharge requirements are being updated to comply with Section 13263 of the California Water Code and incorporate the applicable provisions of Subchapter 15, Chapter 3, Title 23 of the California Code of Regulations.
4. The discharger operates a sand and gravel mining facility. The facility includes two rock crushers, two ready mix concrete batch plants and a single asphalt concrete batch plant.
5. "Inert Wastes" is described in Subchapter 15 as waste which does not contain hazardous waste or soluble pollutants at concentrations in excess of applicable water quality objectives, and does not contain significant quantities of decomposable waste.
6. The discharger reports that the WMF presently receives an average of 150 cubic yards per day of inert waste, as defined in said Subchapter 15. The WMF has a total capacity of 370,000 cubic yards. It is anticipated that the maximum capacity will be reached by the year 2015.
7. The inert waste consists of broken concrete, asphalt, loose sand and aggregate. The waste is placed in the WMF, compacted by a dozer and covered by clean sand periodically. The average depth of waste is 57 feet.

*Changed Name & Ownership
Bd. Ord. # 92-066
11/18/92*

*Chg of Name/Ownership
1 5-17-94
Bd order # 94-059*

*Changed Name & Ownership
Bd. Ord. # 94-034
3/15/94*

SUPERSEDED BY
BOARD ORDER NO. 87-2002-0121

06-06-02

8. The mining facility is located on the southern flank of the Indio Hills. The Indio Hills trend northwest along the northeastern margin of the Coachella Valley. The WMF is underlain by Quaternary (Pleistocene) Ocotillo Conglomerate and Quaternary Alluvial Fans of various ages.
9. The San Andreas Fault System is located north of the mining facility. The system consists of the San Andreas, Banning and Mission Creek faults. The system acts as a ground water barrier. The water table on the north side of the fault zone is near the surface while no ground water was encountered at the facility south of the fault zone to a depth of at least 150 feet.
10. A water supply well was drilled within the site in October 1985. The well was constructed to a depth of 690 feet. Ground water was encountered at a depth of 97 feet below land surface.
11. The discharger reports that analysis of the water level contours indicates that ground water generally flows in a southeasterly direction, roughly parallel to the trend of the San Andreas Fault and the Indio Hills, along a maximum gradient of 20 feet per mile.
12. The discharger reports that analyses of water samples in the vicinity of the facility indicate that the total dissolved solids content ranges from 150 mg/l to 650 mg/l.
13. Annual averages for evaporation and precipitation in the area are 105 inches and 4 inches, respectively.
14. The 100-year, 24-hour precipitation event of the site is approximately 4.78 inches.
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 beneficial uses of ground waters in the Coachella Hydrologic Subunit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
17. Ground water recharge in the area occurs as a result of deep percolation of direct rainfall and runoff, infiltration of irrigation return water, subsurface flow across the fault system and subsurface flow from adjacent ground water basins.
18. Zoning within 1000 feet of the WMF is surface mining.
19. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.

20. The Board in a public meeting heard and considered all comments pertaining to this discharge.
21. 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. 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.
2. Waste material shall not be discharged on any ground surface which is less than five feet above the highest anticipated ground water level.
3. Waste materials shall be confined to the waste management facility as described on the attached site maps.
4. This discharge shall not cause degradation of any water supply.
5. 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.
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. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
9. Only wastes from this sand and gravel mining and processing operation and inert construction wastes shall be discharged at this landfill.

B. Discharge 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 approved by the Regional Board's Executive Officer.
3. The discharge of nonhazardous solid waste (as defined in Subchapter 15) at this WMF is prohibited.
4. The discharge of liquid or semi-solid waste (i.e., waste containing less than 50 percent solids) to the landfill units is prohibited unless approved by the Regional Board's Executive Officer.
5. The discharge of wastes to surface waters, surface water drainage courses, or to ground waters is prohibited.
6. The discharge or deposit of waste to land not owned or controlled by the discharger is prohibited.
7. The discharge of waste containing any carcinogen or reproductive toxic listed by the Governor, pursuant to the Health and Safety Code, Sections 25249.5 through 25249.13, the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65), where such chemicals may pass into any source of drinking water, is prohibited.

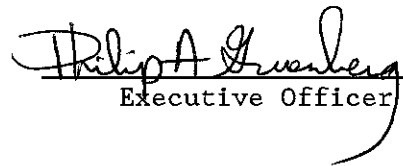
C. Discharge Provisions

1. 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.
2. 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.
3. The discharger shall maintain visible monuments identifying the boundary limits of the entire waste management facility.
4. 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 said Subchapter 15.
5. The closure and post-closure maintenance plan shall include an approvable revenue program to provide sufficient funding for closure and post-closure maintenance.

6. By October 1, 1990 the discharger shall submit for approval by the Regional Board's Executive Officer the design plans for the installation of upgradient and downgradient monitoring wells in the vicinity of the WMF. By January 1, 1991, a report of completion of construction of the wells shall be submitted to the Regional Board.
7. The discharger shall comply with "Monitoring and Reporting Program No. "90-039", and future revisions thereto, as specified by the Regional Board's Executive Officer.
8. Prior to any modifications in this facility which would result in material change in the quality or quantity of waste 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.
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.

IT IS FURTHER ORDERED that Board Order No. 85-046 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 16, 1990.


Executive Officer

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

MONITORING AND REPORTING PROGRAM NO 90-039 (REVISION 2)
FOR
MASSEY SAND AND ROCK COMPANY
WASTE MANAGEMENT FACILITY FOR INERT WASTES
North of Indio - Riverside County

Location of Discharge: SW1/4, SE 1/4, of Section 34, T4S, R7E, SBB&M

WASTE MONITORING

- A. The discharger shall monitor all waste discharged to the disposal site and report to the Regional Board the following:

<u>Item</u>	<u>Reporting Unit</u>	<u>Frequency</u>
1. Inert Waste Discharged	Cubic Yards	Semi-Annually
2. Remaining Capacity of Waste Management Unit	Cubic Yards	Semi-Annually
3. Any discharge of Wastes other than those allowed by Board Order No. 90-039	Type, Volume and Location	Immediately upon becoming aware that the waste has been discharged together with action for immediate correction and prevention of recurrence.

GROUND WATER MONITORING

- B. The ground water monitoring wells shall be sampled semi-annually during June, and December. The samples shall be analyzed for the following:

<u>Parameters Constituents</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Frequency</u>
1. pH	Number	Grab	Semi-Annually
2. TDS	mg/L ¹	Grab	Semi-Annually
3. Ground Water Elevations	Feet USGS Datum	Measurement	Semi-Annually

¹ mg/L - milligrams-per-Liter

<u>Parameters Constituents</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Frequency</u>
4. Volatile Organics	µg/L ²	Grab	Semi-Annually

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

REPORTING

1. Semi-annual monitoring reports shall be submitted to the Regional Board by January 15 and July 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. The first ground water monitoring report shall be submitted by July 15, 1998. Later ground water monitoring reports shall be submitted in accordance with the frequency described in item (1) above.
4. Submit monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region'
73-720 Fred Waring Drive Suite 100
Palm Desert, CA 92260

Ordered by: Phil Granberg
Executive Officer
8-11-98
Date

² µg/L - micrograms-per-Liter

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 90-039
FOR

MASSEY SAND AND ROCK COMPANY
WASTE MANAGEMENT FACILITY FOR INERT WASTES
North of Indio - Riverside County

Location of Discharge: SW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 34, T4S, R7E, SBB&M

WASTE MONITORING

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

<u>Item</u>	<u>Reporting Unit</u>	<u>Frequency</u>
1. Inert Waste Discharged	Cubic Yards	Semi-annually
2. Remaining Capacity of Waste Management Unit	Cubic Yards	Semi-annually
4. Any Discharge of Wastes Other Than Those Allowed by this Board Order	Type, Volume and Location	Immediately upon becoming aware that the waste has been discharged together with action for immediate correction and prevention of recurrence.

GROUND WATER MONITORING

B. 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>Frequency</u>
1. pH	Number	Grab	Quarterly
2. TDS	mg/l	Grab	Quarterly
3. Ground Water Elevations	Feet USGS Datum	Measurement	Quarterly
4. Volatile Organics	µg/l	Grab	Quarterly

*Superseded
by MR# 90-039
(Rev. 2)
8/11/98*

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. Semi-annual monitoring reports shall be submitted to the Regional Board by January 15 and July 15 of each year.
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 a manner as to clearly illustrate whether the waste management unit is operating in compliance with waste discharge requirements.
4. The first ground water monitoring report shall be submitted by April 15, 1991. Later ground water monitoring reports shall be submitted in accordance with the frequency described in item (1) above.

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

May 16, 1990

Date