

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

ORDER NO. 88-26

**WASTE DISCHARGE REQUIREMENTS
FOR
CAMP ROCK MINE
NATURAL RESOURCE MANAGEMENT, INC.
Northeast of Lucerne Valley - San Bernardino County**

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

1. Natural Resource Management, Inc. (hereinafter referred to as the discharger), 100 N. Citrus Avenue, Suite 310, West Covina, California 91791, submitted a Report of Waste Discharge dated October 8, 1987.
2. Camp Rock Mine is operating on public lands administered by the U. S. Bureau of Land Management. The mine site is located northeast of Lucerne Valley in the Lucerne Hydrologic Unit within Section 28, T7N, R3E, SBB&M.
3. The discharger is currently conducting a gold mining recovery operation employing the gravity separation method, which involves the use of water only.
4. The discharger proposes to process a total of 500,000 cubic yards of ore, at 300 cubic yards per day. Life expectancy of the project is 5 years.
5. The mine is currently operating as follows:

Overburden is stripped and stockpiled for backfilling the mine pit. The ore is transported to a de-rocker, where water is sprayed over the material and reduced to minus-1". The plus-1" material is discarded down a chute as waste and backfilled in the mine pit. The minus-1" material is washed down a primary sluice to remove coarser particles of gold. Below this primary sluice is a double-deck shaking screen for removing rock between 1" and ¼" in size. The minus-¼" material from the shaking screen is washed down a second sluice to remove additional coarse gold, and then passed into a slurry hopper. The slurry is then pumped to a jig plant.

At the jig plant, an 11'-diameter "rougher jig" removes 5% of the total feed as concentrates and passes it through to a 3'-diameter "cleaner jig". The remaining 95% of the material separated by the "rougher jig" is discarded, with water, into an adjacent settling basin. The 5% concentrates, which pass through the "cleaner jig" is again reduced to 5%, with the slurry waste material disposed into the settling basin. The 5% of 5% final concentrates consisting of black iron sand and gold, are then passed through a smaller jig to recover the finer gold particles.

6. Water supply for the mining operation is pumped from two adjacent wells located on private land about 1½ miles southwest of the mine. Depth

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Resubmitted
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to groundwater in both wells is 465 feet below land surface. Analysis of the groundwater revealed a total dissolved solids (TDS) content of 480 mg/l.

7. Tailings waste from the jig plant, which is in slurry form and discharged into a series of settling basins, is classified as a Group C mining waste as defined in Section 2571 of Subchapter 15, Title 23 of the California Administrative Code.
8. The Water Quality Control Plan for the Colorado River Basin Region was adopted by the Regional Board on November 14, 1984. The Basin Plan delineates the location of the discharge to be in the Lucerne Hydrologic Unit.
9. The beneficial uses of the groundwaters of the Lucerne Hydrologic Unit are:
 - a. Municipal
 - b. Industrial
 - c. Agricultural
10. The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge.
11. The Board in a public meeting heard and considered all comments pertaining to the discharge.
12. The U. S. Department of Interior, Bureau of Land Management, has made a finding of no significant impact for the project dated February 11, 1986 in accordance with the provisions of the National Environmental Policy Act (42, U. S. Code Section 4321 et. seq.) and in compliance with the State Guidelines under the California Environmental Quality Act (Chapter 3, Title 14, California Administrative Code). The below waste discharge requirements are designed to assure against any significant effects to water quality.

IT IS HEREBY ORDERED, that Natural Resource Management, Inc., in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Specifications:

1. Neither the treatment nor the disposal of waste shall cause a pollution or nuisance as defined by the California Water Code, Section 13050.
2. The discharge shall not cause degradation of the waters of the State.
3. All industrial waste materials shall be discharged at an appropriate waste management facility, or in a manner as approved by the Regional Board's Executive Officer.
4. The tailings waste settling basins shall be diked to prevent runoff of storm water and shall be provided with adequate storm water storage to

contain storm drainage during a maximum probable one-hour storm as set forth in the Department of Water Resources Bulletin No. 195 for Lucerne Valley.

5. A minimum freeboard of two feet shall be maintained in all the basins at all times.
6. The entire mining facility shall be protected from any run-on, washout, or erosion which could occur as a result of a storm having a predicted frequency of once in 100 years, and based on time of concentration at the processing area, as set forth in the Department of Water Resources Bulletin No. 195 for Lucerne Valley.
7. The discharger shall remove and relocate any wastes which are discharged at the site in violation of these requirements.
8. The discharger shall maintain in good working condition, and operate as efficiently as possible, any facility or control system installed to achieve compliance with these requirements.
9. The discharger shall install groundwater monitoring wells and a vadose zone monitoring system as feasible in locations approved by the Regional Board's Executive Officer.

B. Discharge Prohibitions:

1. The discharge or deposit of wastes at the site from sources other than from the mining operation is prohibited.
2. The discharge of seepage or liquid waste from the mine to surface waters or surface water drainage courses is prohibited.

C. Provisions:

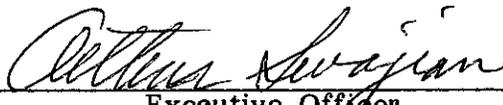
1. The discharger shall comply with "Monitoring and Reporting Program No. 88-26", and future revisions thereto and shall submit special technical reports as requested by the Regional Board's Executive Officer.
2. Prior to any significant modifications in this facility which could result in material change in the quality or quantity of wastes discharged, or any material change in location of discharge, the discharger shall report in writing to the Regional Board allowing sufficient time for Board consideration and action.
3. In the event of any change in operation, or in control or ownership of land or facilities owned or controlled by the discharger, the discharger shall:
 - a. Notify the Regional Board of such change; and
 - b. Notify the succeeding owner or operator by letter of the existence of this Order, a copy of which shall be filed with the Regional Board.

4. Within 6 months from the date of adoption of this Order, the discharger shall submit a closure and post-closure maintenance plan for review and approval by the Regional Board's Executive Officer. The closure and post-closure maintenance plan shall describe the methods and controls to be used to assure protection of the quality of surface and ground waters of the area upon cessation of operations and with any proposed subsequent use of the land. Such plan shall be prepared by or under the supervision of a California registered civil engineer or a certified engineering geologist.
5. The discharger shall submit to the Regional Board, by the 15th day of January of each year, written assurance that monies are available in an amount sufficient to ensure the closure and post-closure maintenance of the site in a manner that will not pose an adverse threat to the quality of the surface and ground waters. The discharger shall also assure that sufficient monies are available to the Regional Board in the case of earthquakes or other unforeseen threat to water quality.

The Regional Board, with the adoption of these waste discharge requirements, authorizes the Executive Officer to enter into an agreement with the discharger providing for such assurances. If the discharger does not provide adequate financial assurances, as described in this provision and specifically if the discharger violates the agreement entered into by the Regional Board's Executive Officer and the discharger, such violation shall be grounds for the Regional Board to order a cessation of all operations at the site. In addition, the amount of the agreement made by the discharger shall constitute a lien upon the recordation of a notice of lien in the office of the appropriate County Recorder.

6. Lack of operational activity on the site for a period of one year shall constitute abandonment for the purpose of requiring closure of the site and subsequent rescission of this Order; but lack of interim operational activity does not excuse submittal of information required under Monitoring and Reporting Program No. 88-26.
7. The discharger shall immediately inform the Executive Officer of any spillage beyond any of the containment facilities or elsewhere at the site, and of storm damage to any of the containment facilities along with a proposal to correct same.
8. The discharger shall process no more than 500,000 cubic yards of ore at this site under this Order.

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 January 27, 1988.



Executive Officer

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

MONITORING AND REPORTING PROGRAM NO. 88-26
FOR
CAMP ROCK MINE
Northeast of Lucerne Valley - San Bernardino County

Monitoring and Reporting

The discharger shall submit to the Regional Board, by the 15th day of the following month, monthly reports containing the following:

- A. Total amount of ore (cubic yards) processed to date.
- B. Total volume of tailings waste discharged into the settling basins to date.

The above monitoring program shall be implemented immediately upon adoption of this Order.

Copies of the reports submitted to the Regional Board pursuant to this Monitoring and Reporting Program shall be maintained at the operations for the entire life of the project, and shall be made available to the Regional Board staff upon request. Each monitoring report shall be certified to be true and correct by an authorized officer of the company.

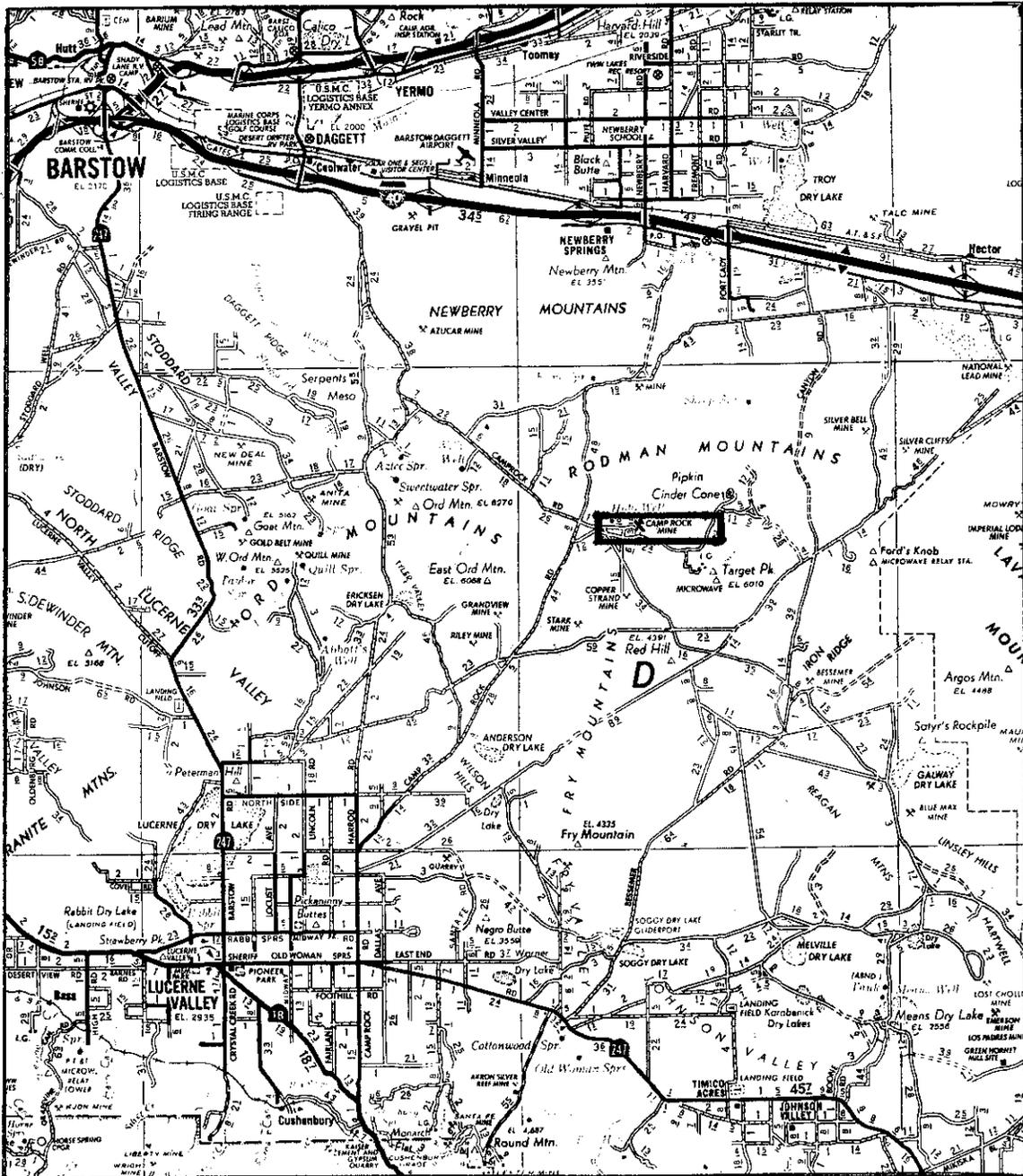
Mail reports to:

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

ORDERED BY: Arthur Swanson
Executive Officer

January 27, 1988
Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



SITE MAP NO. 1

CAMP ROCK MINE
Northeast of Lucerne Valley - San Bernardino County

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