

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

ORDER NO. 88-19

**WASTE DISCHARGE REQUIREMENTS
FOR
PLUESS-STAUFER (CALIFORNIA) INC.
Group "C" Mining Waste Management Facility
Lucerne Valley - San Bernardino County**

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

1. Pluess-Stauffer (California) Inc. (hereafter also referred to as the discharger), P.O. Box 825, Lucerne Valley, California 92356, submitted a Report of Waste Discharge dated June 12, 1987, and a waste characterization report and facility operations plan dated September 21, 1987.
2. The discharger operates a limestone extraction and processing facility located 5 miles south of State Highway 18 off Crystal Creek Road in NW 1/4, NW 1/4, Section 1, T3N, R1W, SBB&M, as shown in Attachment (A) which is incorporated herein and made part of this Order.
3. The discharger had been discharging Group C mining wastes at a Waste Management Facility (WMF) located at the discharger's plant since 1977. The WMF consists of three waste management units (WMUs). Two of the WMUs are presently inactive and contain a total of 12,100 cubic yards of Group C mining wastes. The active WMU has a total capacity of 24,000 cubic yards, and the remaining capacity is 18,000 cubic yards. The WMUs are shown in Attachment B which is incorporated herein and made a part of this Order.
4. The wastes consist of limestone rock, crushed limestone, wood, cardboard, paper bags, and woven polypropylene bags.
5. The site is located at the base of the northern slope of the San Bernardino Mountains. The site is underlain by alluvium of recent age derived from the San Bernardino Mountains to the South. The alluvium is composed of sand and gravel and extends to a depth approaching 2000 feet in the vicinity of the site. The discharger has reported the presence of two inactive faults located approximately 1000 feet southeast and 2500 feet south of the site.
6. Ground water in the vicinity of the site is estimated at a depth of 855 feet. Ground water quality in the general vicinity of the plant has a total dissolved solids (TDS) concentration of 200-800 mg/l. Analytical results of a water sample collected from a well located 1 mile north of the WMF in July 1987 indicates that the water contains 408 mg/l TDS, 82 mg/l calcium, and 56 mg/l magnesium.
7. Crystal Creek is the nearest surface water source in the vicinity of the site. The beneficial uses of the surface waters of Crystal Creek are: municipal supply, agricultural supply, ground water recharge, water contact recreation,

*Rescinded
June 26/91*

non-water contact recreation, warm water habitat and wildlife habitat. Runoff from the site would intercept the creek's streambed approximately 1 1/2 miles downgradient. The creek originates in the San Bernardino Mountains south of the site and flows within one mile to the east of the WMF.

8. Analytical results of a water sample collected from Crystal Creek at approximately 1 1/2 miles upgradient of the WMU's in April 1987 indicate that the sample contains 390 mg/l TDS, 100 mg/l calcium, and 25 mg/l magnesium.
9. Mean annual precipitation for the general vicinity of the site ranges from 5 inches in the central basin of Lucerne Valley to over 20 inches in the San Bernardino Mountains. Ground water recharge in the Lucerne Valley Hydrologic Unit results from deep percolation of runoff from precipitation in the San Bernardino Mountains.
10. Land within 1000 feet of the site is zoned for heavy industrial, desert agricultural, and residential uses by the County of San Bernardino.
11. The discharger states that runoff from a 100-year storm event for the area tributary to the site is estimated at 330 cubic feet per second.
12. The Water Quality Control Plan for the Colorado River Basin Region was adopted on November 14, 1984. The Basin Plan delineates the location of the discharge to be in the Lucerne Hydrologic Unit.
13. The beneficial uses of the ground waters in the Lucerne Hydrologic Unit are municipal, agricultural and industrial supply.
14. Article 7, Subchapter 15, Chapter 3, Title 23 of the California Administrative Code contains specific construction, monitoring and operations standards for management of Group C mining wastes. This Order implements those standards.
15. The WMF, if properly operated and maintained, will meet the criteria contained in Article 7 of said Subchapter 15.
16. These waste discharge requirements govern an existing facility which the discharger is currently operating, and therefore exempt from the provisions of the California Environmental Quality Act in accordance with Section 15301, Chapter 3, Title 14 of the California Administrative Code.
17. The Board has transmitted a draft of this tentative Order to the discharger and to interested agencies and persons, and has notified them of its intent to prescribe waste discharge requirements for this facility. The Board in a public meeting heard and considered all comments pertaining to this discharge.

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

A. Discharge Specifications

1. The treatment or disposal of the wastes specified in Finding No. 4 shall not cause pollution or a nuisance as defined in Section 13050(l) and 13050(m) of the California Water Code.
2. Waste materials shall not be discharged outside the designated WMF.
3. 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 facility and shall be diverted from the WMF.
4. Mining wastes shall not be placed in ponded water.
5. The discharge of wastes shall be limited to those specified in Finding No. 4 above, and only from the discharger's operations as explained in Finding No. 2, above.
6. The WMF should be protected from inundation or washout of wastes which could occur as a result of a 100-year, 24-hour storm.
7. The exterior surfaces of the waste management units shall be graded to promote lateral runoff of precipitation and to prevent ponding.
8. 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; and the details and completion of this work shall be reported to the Regional Board by the 15th day of October.
9. Water used for site maintenance shall be limited to the minimum amount necessary for dust control.
10. The discharger shall remove and properly relocate any wastes which are discharged at this WMF in violation of these requirements.
11. Runoff and drainage control designs and construction shall be supervised and certified by a California registered civil engineer as meeting the prescriptive standards and performance goals of said Subchapter 15.
12. The integrity of the runoff and drainage control structures shall be maintained through the closure and post closure maintenance period.
13. The WMF shall be operated and maintained to prevent migration of wastes from the waste management units during disposal operations, closure, and the post-closure maintenance period.
14. The discharge shall not cause degradation of ground or surface waters.
15. The discharger shall comply with all applicable sections of said Subchapter 15, including those sections that are specifically referenced in these requirements.

16. The Board shall be notified immediately of any structural failure occurring at the WMF.

17. Closure and post closure maintenance of the waste management units shall be in compliance with Section 2574, of said Subchapter 15.

B. Prohibitions

1. The discharge of wastes to surface water, or surface water drainage courses is prohibited.

2. Group A and B mining wastes shall not be discharged at this WMF.

3. The discharge to the WMF of wastes containing free liquid or moisture in excess of the waste's moisture holding capacity is prohibited.

4. The discharge of waste within 100 feet of surface waters is prohibited.

5. The discharge of waste containing any carcinogen or reproductive toxin listed by the Governor, pursuant to 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. 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 WMF. The discharger shall also notify the Regional Board of a material change in the character, location, or volume of the waste discharge and of any proposed expansions or closure plans. This notification shall be given sixty days prior to the effective date of the change and shall be accompanied by an amended report of waste discharge and any information that will demonstrate continued compliance with these waste discharge requirements.

3. The discharger shall comply with Monitoring and Reporting Program No. 88-19, which is attached to this Order.

4. The discharger shall maintain adequate monuments identifying the limits of the WMF.

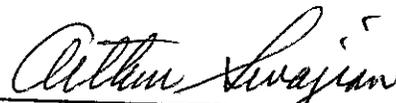
5. The discharger shall maintain legible records of the volume and type of each waste discharged at the WMF. Such records shall be maintained at the site until the beginning of the post-closure maintenance period. Copies of these records shall be provided to the Regional Board.

6. On or before July 31, 1988, the discharger shall submit to the Regional Board for approval, a closure and post-closure maintenance plan, describing the methods and controls to be used to assure protection of the quality of surface and ground waters in the area during final operations and during any proposed subsequent use of the land. The plan shall be prepared by or under the

supervision of a California registered civil engineer, updated annually, and submitted to the Regional Board by the 15th day of January of each year.

7. The discharger shall maintain the existing closed waste management units in a manner that will minimize erosion and the threat to water quality.
8. The closure and post-closure maintenance plan shall include an approvable revenue program to provide sufficient funding for closure and post-closure maintenance.
9. In the event of any change in ownership of this WMF, the discharger shall notify the succeeding owner or operator in writing of the existence of this Order. A copy of that notification shall be provided to the Regional Board.

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. 88-19
FOR**

**PLUESS-STAUFER (CALIFORNIA) INC.
Group C Mining Waste Management Facility
Lucerne Valley - San Bernardino County**

Location of Discharge: NW 1/4, NW 1/4, Section 1, T3N, R1W, SBB&M

MONITORING OF WASTE MANAGEMENT FACILITY

The discharger shall monitor all wastes discharged to the Group C mining waste management facility and report to the Regional Board as follows:

<u>Parameter</u>	<u>Reports in Units of</u>	<u>Frequency of Reporting</u>
1. Quantity discharged	Cubic Yards	Quarterly
2. Type of material discharged	—	Quarterly
3. Remaining capacity of waste management unit	Cubic Yards	Quarterly
4. Any discharge of wastes other than those allowed in the specifications	Types, Volume and Location	Immediately upon becoming aware that the waste has been discharged, together with actions for immediate correction and for prevention of recurrence.
5. Work done to maintain drainage control facilities	—	Annually, by the 15th day of October

CLOSURE AND POST-CLOSURE MAINTENANCE PLAN

1. Submit a Closure and Post-Closure Maintenance Plan as described in Discharge Provision C-6 of Board Order No. 88-19.

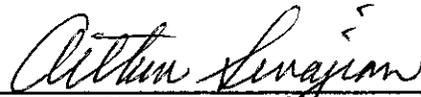
2. Submit updated Closure and Post-Closure Maintenance Plan by the 15th day of January of each year, until the end of the Post-Closure Maintenance.

REPORTING

1. Quarterly monitoring reports shall be submitted to the Regional Board by the 15th day of January, April, July and October of each year.
2. Monitoring reports shall be certified to be true and correct, under penalty of perjury, and shall contain the required information at the frequency designated in the monitoring program.
3. The monitoring reports shall be mailed to the following address:

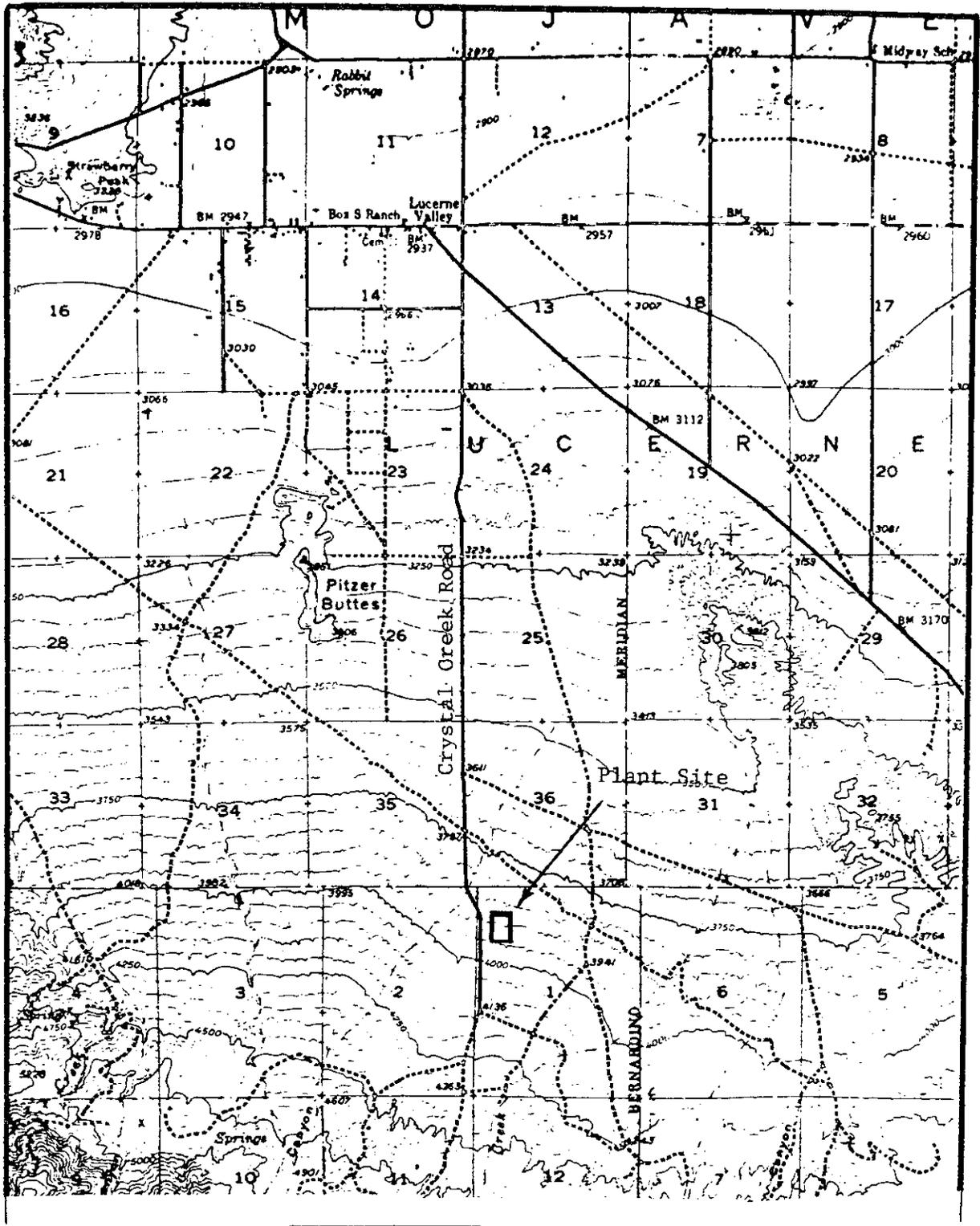
California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

ORDERED BY:


Executive Officer

January 27, 1988
Date

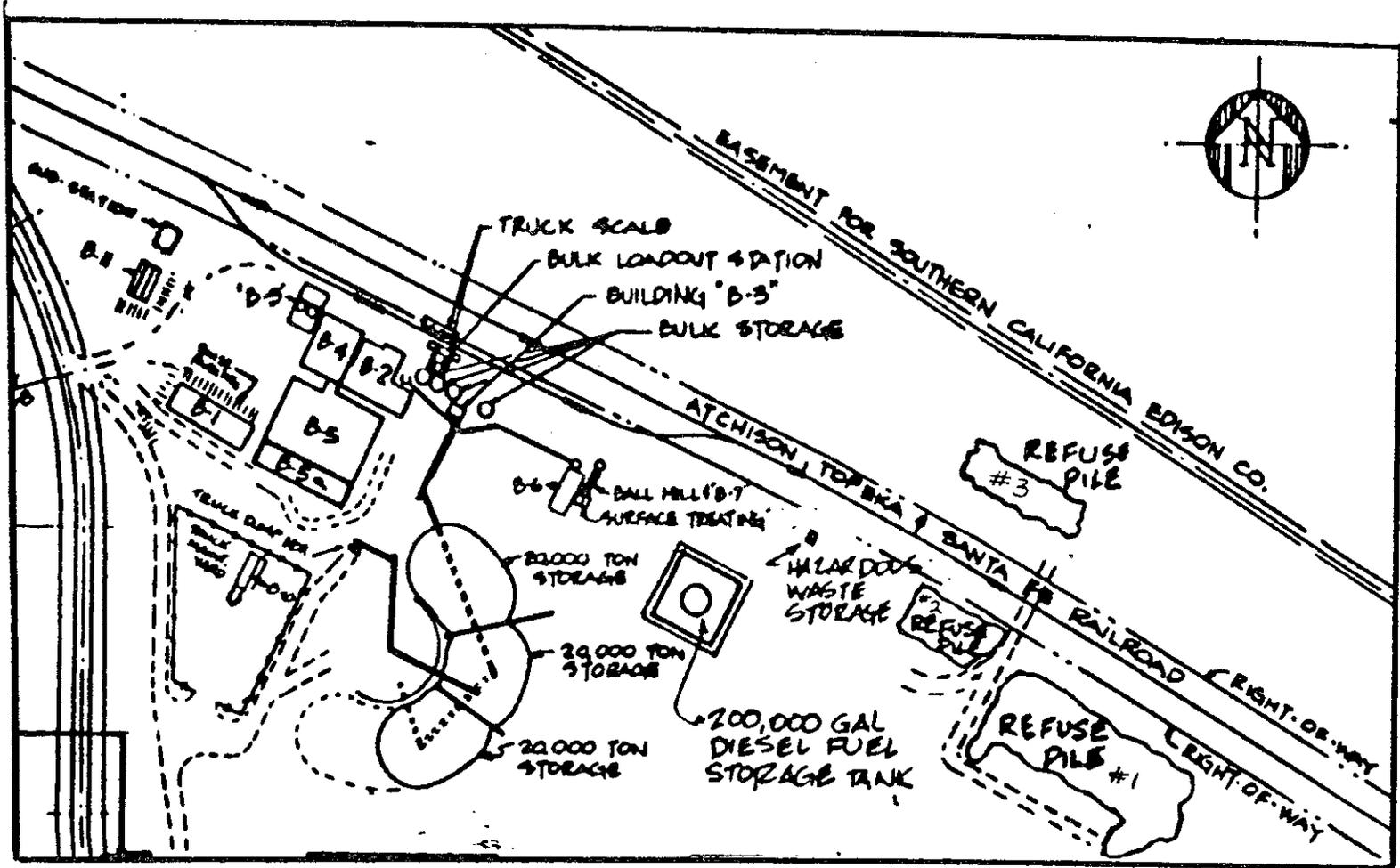
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



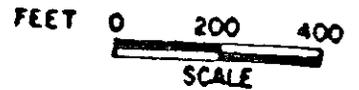
ATTACHMENT "A"
SITE MAP

PLUESS-STAUFER (CALIFORNIA) INC.
Lucerne Valley - San Bernardino County
NW 1/4, NW 1/4, Section 1, T3N, R1W, SBB&M

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



ATTACHMENT "B"



PLUESS-STAUFER (CALIFORNIA), INC.
Location of Mining Waste Piles
Lucerne Valley - San Bernardino County
NW 1/4, NW 1/4, Section 1, T3N, R1W, SBB&M