

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 90-040

WASTE DISCHARGE REQUIREMENTS
FOR
PLUESS-STAUFER (CALIFORNIA) INC.
GROUP "C" MINING WASTE MANAGEMENT FACILITY
WASTE MANAGEMENT UNIT NO. 4
Lucerne Valley - San Bernardino County

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

1. Pluess-Stauffer (California) Inc. (hereinafter also referred to as the discharger), P. O. Box 825, Lucerne Valley, California 92356, submitted a Report of Waste Discharge dated January 2, 1990 and current information for the construction of a new Group "C" mining waste management facility (WMF).
2. The discharger operates a limestone extraction and processing facility located 5 miles south of State Highway 18 off Crystal Creek Road in the NW $\frac{1}{4}$, NW $\frac{1}{4}$, Section 1, T3N, R1W, SBB&M, as shown on Attachment "A" which is incorporated herein and made part of this Order.
3. The discharger has 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 will reach its capacity by the end of 1990.
4. The discharger proposes to construct a fourth Group "C" WMU approximately 400 feet north of the currently active WMU. The total area of WMU No. 4 is 1.8 acres and has a total capacity of 50,000 cubic yards. The estimated total life expectancy for WMU No. 4 is five years.
5. The WMUs are shown in Attachment "B" which is incorporated herein and made part of this Order.
6. The wastes consist of limestone rock, crushed limestone, wood, cardboard, paper bags and woven polypropylene bags.
7. 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.

*Change of
Name / Ownership
Per Ord. # 98-046
5/14/98*

8. 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.
9. Crystal Creek is the nearest surface water source in the vicinity of the site. The beneficial uses of surface waters of Crystal Creek are: municipal supply, agricultural supply, ground water recharge, water contact recreation, non-water contact recreation, warm water habitat and wildlife habitat. Runoff from the site would intercept the Creek's streambed approximately 1½ 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.
10. Analytical results of a water sample collected from Crystal Creek at approximately 1½ miles upgradient of the WMUs in April 1987 indicate that the sample contains 390 mg/l TDS, 100 mg/l calcium, and 25 mg/l magnesium.
11. 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.
12. Land within 1000 feet of the site is zoned for heavy industrial, desert agricultural, and residential uses by the County of San Bernardino.
13. The discharger states that runoff from a 10-year storm event for the area tributary to the site is estimated at 81 cubic feet per second.
14. 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.
15. The beneficial uses of ground waters in the Lucerne Hydrologic Unit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
16. Article 7, Subchapter 15, Chapter 3, Title 23 of the California Code of Regulations contains specific construction, monitoring and operations standards for management of Group "C" mining wastes. This Order implements those standards.
17. 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, Sections 21000 et seq.).

18. The Board has notified the discharger and all known interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.
19. The Board in a public meeting heard and considered all comments pertaining to this discharge.

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

A. Discharge Specifications

1. The treatment or disposal of wastes specified in Finding No. 6 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 materials shall not be discharged outside of 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 site.
4. Mining wastes shall not be placed in ponded water.
5. The discharge of wastes shall be limited to those specified in Finding No. 6, above, and only from the discharger's operations as explained in Finding No. 2, above.
6. The WMF shall be protected from inundation or washout of wastes which could occur as a result of a 10-year, 24-hour storm.
7. The exterior surfaces of the WMUs shall be graded to promote lateral runoff of precipitation and to prevent ponding.
8. Annually, prior to the first 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 report thereon shall be submitted to the Regional Board by November 15 of each year.
9. Water used for site maintenance shall be limited to amounts necessary for dust control.
10. The discharger shall remove and relocate any wastes which are discharged at this site 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. This discharge shall not cause degradation of any water supply.
15. The discharger shall comply with all applicable provisions of said Subchapter 15 that are not specifically referred to in this Board Order.
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

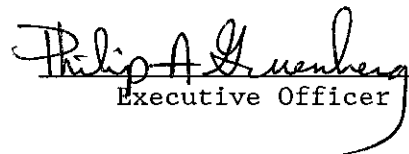
1. The discharge of wastes to surface waters, surface water drainage courses, or to ground waters is prohibited.
2. Group A and B mining wastes shall not be discharged at this WMF.
3. The discharge to the WMF of wastes containing free liquid or moisture in excess of the waste's moisture holding capacity is prohibited.
4. The discharge of waste within 100 feet of surface waters is prohibited.
5. The discharge or deposit of waste to land not owned or controlled by the discharger is prohibited.
6. The discharge of waste containing any carcinogen or reproductive toxic 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. 90-040, and future revisions thereto, as specified by the Regional Board's Executive Officer.
4. 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.
5. The discharger shall maintain visible monuments identifying the boundary limits of the entire waste management facility.
6. 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.
7. 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.
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. The discharger shall maintain the existing closed waste management units in a manner that will minimize erosion and the threat to water quality.
10. 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.
11. This Board Order does not authorize violation of any federal, state, or local laws or regulations.

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. 90-040
FOR
PLUESS-STAUFER (CALIFORNIA) INC.
GROUP "C" MINING WASTE MANAGEMENT FACILITY
WASTE MANAGEMENT UNIT NO.4
Lucerne Valley - San Bernardino County

Location of Discharge: NW $\frac{1}{4}$, NW $\frac{1}{4}$, 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>Units</u>	<u>Frequency</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

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:

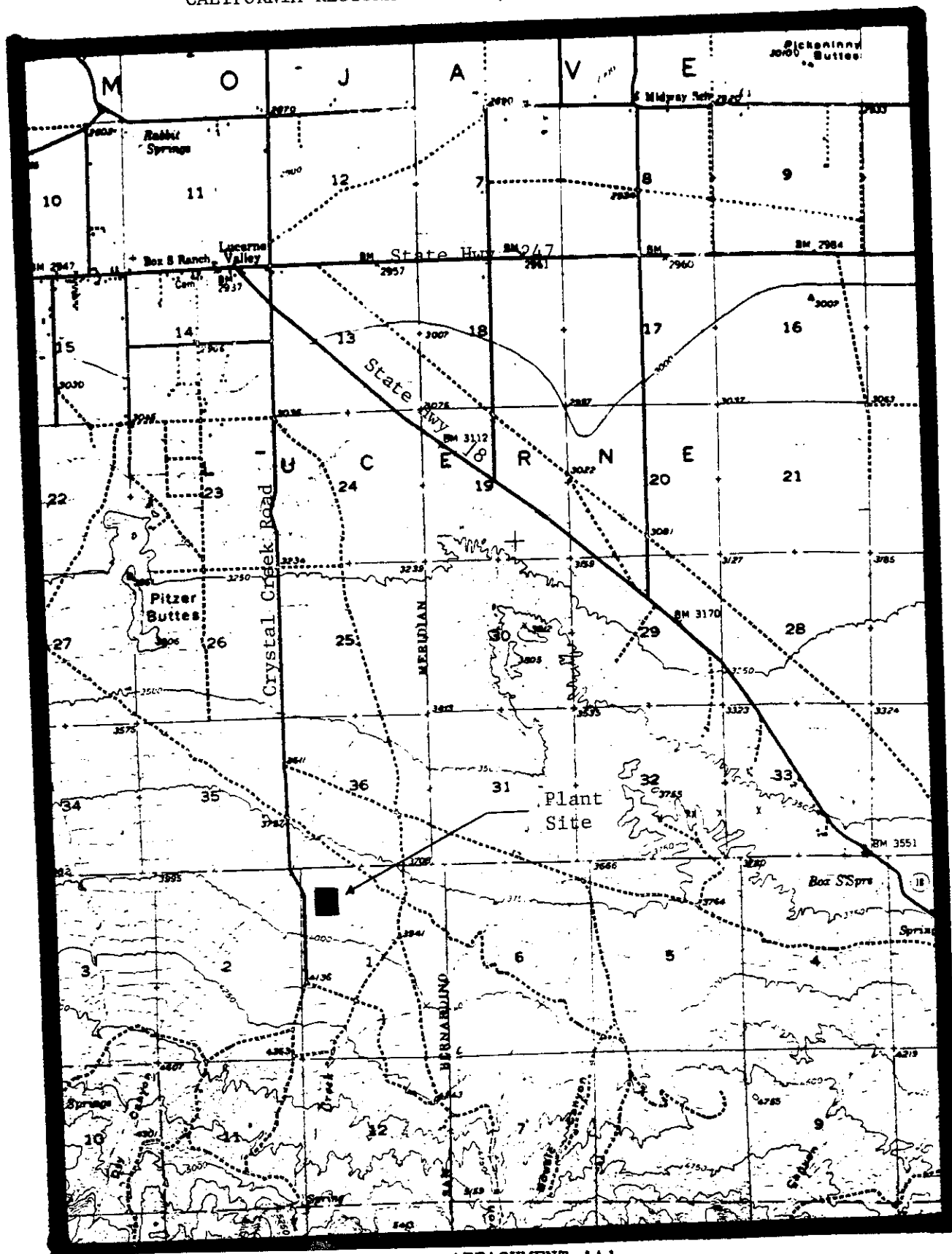
California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

ORDERED BY:

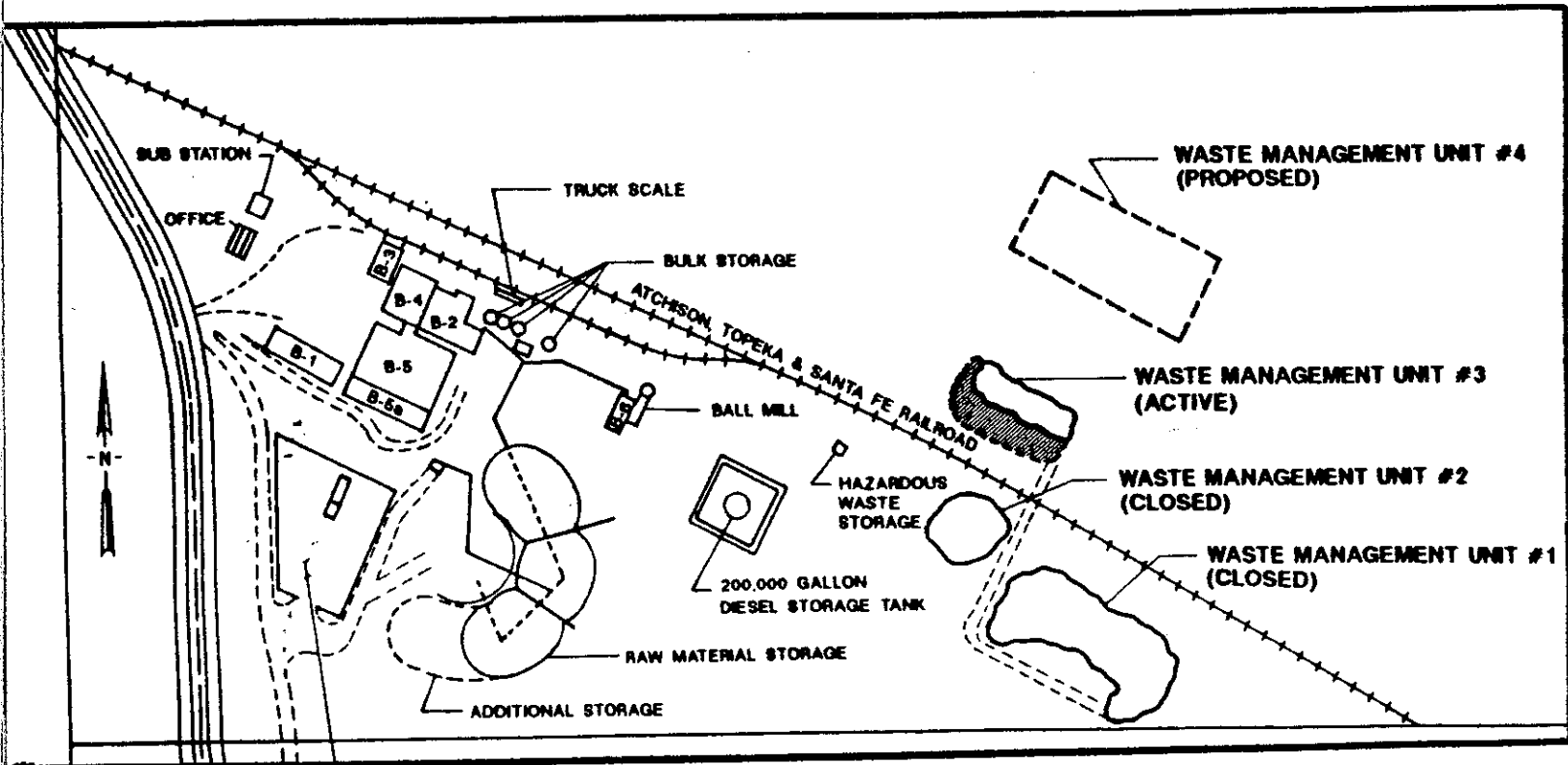
Philip A. Stuenkel
Executive Officer

May 16, 1990

Date



ATTACHMENT 'A'
SITE MAP
PLUESS-STAUFER (CALIFORNIA) INC.
Lucerne Valley - San Bernardino County
NW $\frac{1}{4}$, NW $\frac{1}{4}$, Seciton 1, T3N, R1W, SBB&M
USGS Lucerne Valley 15 min. Topographic Map



ATTACHMENT "B"
PLUESS-STAUFER (CALIFORNIA) INC.
LOCATION OF MINING WORK PILES
Lucerne Valley - San Bernardino County
NW $\frac{1}{4}$, NW $\frac{1}{4}$, Section 1, T3N, R1W, SBB&M

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