

AUG 10 1979

RS&G-ENG.



RECLAMATION PLAN APPLICATION

Return to Courthouse Annex, Room 102, San Luis Obispo CA 93401 (805) 549-5600

APPLICANT AND GENERAL INFORMATION

(1) Applicant: KAISER SAND & GRAVEL CO.	(2) Mailing Address: P. O. Box 580 Pleasanton, CA 94566	Telephone: (415) 846-8800
(3) Type of Ownership: Individual () Corporation (x) Partnership () Other ()	(4) Status of Application: Original Application (x) Amendment ()	(6) Date Mine (is to be) Opened: 1920+
(7) Estimated Life of Operation: 40 years	(5) Mine Name: Santa Margarita	(8) Conditional Use Permit Number: None
(9) Assessor's Parcel Number(s):	(10) USGS Quadrangle: Santa Margarita	

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2011 0 1992

OFFICE OF MINE RECLAMATION

MINE INFORMATION

(11) Raw Materials Mined: Granite	(12) Yield (In Tons or Cu.Yds./Year): 350,000 Tons/Year
(13) Type of Mine: Borrow Pit () Gravel Bar Skimming (x) Stream Bed Skimming () Underground ()	Sand/Gravel Pit () Quarry (x) Clay Pit () Other (Specify) ()
(14) Geologic Group, Formation and Member: La Panza	
(15) Has Exploratory or Development Drilling been Utilized for the Operation?	Yes <u>X</u> No <u> </u>
(16) On-Site Processing?	Yes <u>X</u> No <u> </u>
(17) Total Acreage Affected by Mining after January 1, 1976: Mining <u>80</u> Processing <u>10</u>	Waste Disposal <u> </u> Settling Ponds <u>10</u>
(18) The Operation is (or will be): Continuously Active (x) Temporarily Deactivated () Undeveloped ()	Intermittently Active () Abandoned () Other (specify) ()
(19) Total Acreage Affected by Mining prior to January 1, 1976 and not Reaffected after that Date: <u>0</u>	
(20) Drainage: <u>Salinas River</u>	(21) Tributary to: <u>Monterey Bay</u>
(22) Will Mining Progress in Separate Phases?	Yes <u> </u> No <u>X</u>
(23) Will Groundwater be Encountered During Mining (Including any Perched, Regional, or Artesian Flow)?	Yes <u>X</u> No <u> </u>
(24) Is Ongoing, Phased Reclamation Proposed?	Yes <u>X</u> No <u> </u>
(25) Is Soil Salvage and Replacement Proposed?	Yes <u>X</u> No <u> </u>
(26) Will Water be Utilized for Mining or Processing?	Yes <u>X</u> No <u> </u>
(27) Will Settling Basins be Utilized?	Yes <u>X</u> No <u> </u>
(28) Will Water be Discharged from the Affected Area?	Yes <u>X</u> No <u> </u>
(29) Will the Operation Involve Relocation, Blockage or Alteration of any Water Course or Stream?	Yes <u> </u> No <u>X</u>
(30) Highest and Best Use of Affected Land Prior to Mining:	<u>Open space</u>
(31) Proposed Use Following Reclamation:	<u>Open space</u>

OFFICE USE ONLY

MAP NUMBER: _____

GENERAL PLAN: _____

DATE RECEIVED: _____

FILE NUMBER: _____

RECEIPT NO: _____

BY: _____



RECLAMATION PLAN APPLICATION SUPPLEMENTALS

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A: OWNER, OPERATOR, & AGENT

A-1. APPLICANT

NAME KAISER SAND & GRAVEL COMPANY
ADDRESS 3311 Stanley Blvd./P. O. Box 580, Pleasanton, CA 94566
TELEPHONE (415) 846-8800

A-2. APPLICANT CONTACT PERSON

NAME Lawrence W. Appleton
ADDRESS 3311 Stanley Blvd./P. O. Box 580, Pleasanton, CA 94566
TELEPHONE (415) 846-8800 ext. 224

A-3. APPLICANT LIST NAMES, TITLES AND ADDRESSES OF ALL PARTNERS IN THE CASE OF A PARTNERSHIP OR ALL OFFICERS IN THE CASE OF A CORPORATION.

Robert A. Good, President & General Manager
3311 Stanley Blvd./P. O. Box 580, Pleasanton, CA 94566
David Grummitt, Vice President & General Manager Southern Region
P. O. Box 850, Atascadero, CA 93422

A-4. LIST ALL NAMES UNDER WHICH THE APPLICANT HAS PREVIOUSLY OPERATED MINES IN THE COUNTY OF SAN LUIS OBISPO.

N/A

A-5. NAME(S) AND ADDRESS(ES) OF (ALL) OWNER(S) OF SURFACE RIGHTS.

Santa Margarita, Ltd.
Cullen Center
38th Floor
Houston, Texas 77002

A-6. NAME(S) AND ADDRESS(ES) OF (ALL) OWNER(S) OF MINERAL RIGHTS.

Same as A-5

OFFICE USE ONLY

MAP NUMBER: _____
DATE RECEIVED: _____
RECEIPT NO: _____

GENERAL PLAN: _____
FILE NUMBER: _____
BY: _____

B: CONSENT OF LANDOWNER

We the undersigned, the owners of land located _____

Assessor's Parcel Number(s) _____

upon which _____
(Name of Operator)

is to conduct an open pit mining operation, and for which application for approval of a Reclamation Plan is being made, and of which application this consent is a part, do hereby irrevocably grant to the operator, the State of California, County of San Luis Obispo or any of its authorized agents, the right to enter upon the land affected by the operator within a period of five (5) years after the operation is completed or abandoned only for the purpose of backfilling, planting and reclamation, or for inspection and evaluation as to the satisfactory completion of such measures in accordance with the provisions of the Surface Mining and Reclamation Act of 1975 and San Luis Obispo County Code, Chapter 22.81, as amended.

In witness whereof we have hereunto set our hands this _____
day of _____, 19__.

(Signature of Landowner)

(Signature of Landowner)

Affidavit:
State Of California)
County Of:)SS.

I, _____ a Notary Public in and for the State of California, do hereby certify that on the _____ day of _____ 197_ before me personally appeared _____ and subscribed and swore this instrument.

Witness my hand and seal this ___ day of _____ 197_.

(SEAL)

- INSTRUCTIONS:**
1. If the land is owned by one or more persons, all owners must sign.
 2. File one (1) copy for each landowner.
 3. If owned by an estate, authority for signing must be established.

C: LOCATION OF MINING SITE

C-1. ASSESSOR'S PARCEL NUMBER(S) AND LEGAL DESCRIPTION OF THE PARCEL(S) ON WHICH THE MINING SITE IS (IS TO BE) LOCATED. INCLUDE TOTAL ACREAGE OF EACH PARCEL.

70-141-07 - 44 acres

70-141-06 - 40 acres

C-2. THE MINING SITE IS LOCATED ON THE SANTA MARGARITA USGS 7½ MINUTE QUADRANGLE. ATTACH COPY OF APPROPRIATE QUADRANGLE WITH THE MINING SITE AND THE PARCEL(S) ON WHICH THE SITE IS LOCATED ACCURATELY PLOTTED.

C-3. DESCRIBE THE ACCESS ROUTE TO THE MINING SITE.

The access road is constructed on a former Southern Pacific right-of-way from El Camino Real easterly to the quarry.

C-4. LIST NAMES AND ADDRESSES OF ALL ADJACENT PROPERTY OWNERS, WITHIN 300 FEET OF EXTERNAL BOUNDARIES OF THE PARCEL ON WHICH THE MINING SITE IS LOCATED.

See Drawing SMVP-1

D: GEOLOGY, SOILS, HYDROLOGY & ENVIRONMENT

D-1. MINERAL (TO BE) MINED. _____

D-2. BRIEF DESCRIPTION OF THE REGIONAL GEOLOGIC SETTING.

Region consists of outcropping granitic rock, except for Simmler Fm. (Ts on map), a nonmarine conglomerate bordering the quarry property on the southwest, and stream alluvium along the Salinas River. The Rinconada Fault lies a mile west of site; smaller faults cross the quarry.

ATTACHMENT TO SECTION D-4

TEST HOLE LOGS - SANTA MARGARITA

(Locations on accompanying map)

Test Holes 1, 2, 3, 4, 5 drilled January 23, 1980

Test Hole 1

Ground Elevation = 1,327
0 - 12 Stripping
12 - 66 Hard Brown
66 Blue Rock
Blue Elevation = 1,261

Test Hole 2

Ground Elevation = 1,268
0 - 6 Stripping
6 - 80 Hard Brown
80 Blue Rock
Blue Elevation = 1,188

Test Hole 3

Ground Elevation = 1,227
0 - 40 Stripping
40 - 60 Soft Brown
60 - 80 Hard Brown
80 Blue Rock
Blue Elevation = 1,147

Test Hole 4

Ground Elevation = 1,205
0 - 60 Fill

Test Hole 5

Ground Elevation = 1,143
0 - 4 Stripping
4 - 48 Hard Brown
48 Blue Rock
Blue Elevation = 1,095

Following Test Holes drilled September, 1976

Test Hole 15

Ground Elevation = 1,070
0 - 6 Stripping
6 - 24 Hard Brown
24 Blue Rock
Blue Elevation = 1,046

Test Hole 16

Ground Elevation = 1,186
0 - 48 Soft Brown

Test Hole 17

Ground Elevation = 1,140
0 - 7 Stripping
7 - 48 Soft Brown

Test Hole 19

Ground Elevation = 1,222
0 - 48 Fill & D.G.

Test Hole 20

Ground Elevation = 1,212
0 - 48 Fill & D.G.

Test Hole 21

Ground Elevation = 1,230
0 - 4 Stripping
4 - 36 Soft Brown
36 - 48 Soft Blue
Blue Elevation = 1,182

Test Hole 22

Ground Elevation = 1,240
0 - 28 Fill

Test Hole 23

Ground Elevation = 1,255
0 - 48 Fill

Test Hole 24

Ground Elevation = 1,245
0 - 10 Fill
10 - 36 Soft Blue
36 Hard Blue
Blue Elevation = 1,209

Test Hole Logs - Santa Margarita
Page 2.

Test Hole 25

Ground Elevation = 1,260
0 - 3 Stripping
3 - 34 Brown Rock
34 - 48 Med. Hard Blue
Blue Elevation = 1,226

Test Hole 26

Ground Elevation = 1,290
0 - 18 Stripping
18 - 46 Brown Rock
46 Blue Rock
Blue Elevation = 1,244

Test Hole 29

Ground Elevation = 1,310
0 - 2 Stripping
2 - 48 Brown Rock

Test Hole 31

Ground Elevation = 1,255
0 - 2 Stripping
2 - 48 Brown Rock

Test Hole 33

Ground Elevation = 1,208
0 - 48 Fill

Test Hole 34

Ground Elevation = 1,208
0 - 48 Fill

Test Hole 35

Ground Elevation = 1,205
0 - 48 Fill

Test Hole 36

Ground Elevation = 1,258
0 - 18 Fill
18 - 48 Brown Rock

Test Hole 37

Ground Elevation = 1,260
0 - 2 Stripping
2 - 14 Brown Rock
14 - 25 Soft Blue Rock
25 Hard Blue Rock
Blue Elevation = 1,235

Test Hole 38

Ground Elevation = 1,200
0 - 2 Stripping
2 Hard Blue
Blue Elevation = 1,198

Test Hole 39

Ground Elevation = 1,150
0 - 6 Stripping
6 - 12 Brown Rock
12 Blue Rock
Blue Elevation = 1,138

Test Hole 40

Ground Elevation = 1,122
0 - 10 Fill
10 - 15 Brown Rock
15 - 22 Soft Blue Rock
Blue Elevation = 1,102

Test Hole 41

Ground Elevation = 1,032
0 - 12 Brown Rock
12 Blue Rock
Blue Elevation = 1,020

D-7. WHAT IS THE DIRECTION OF GROUNDWATER MOVEMENT IN THE AREA AFFECTED BY THE MINING OR PROCESSING OPERATIONS?

No connected water table exists. Rainfall enters occasional shear zone fractures and joints; most is trapped at shallow depths, but small amount seeps down toward quarry pit area and maintains pond.

D-8. DESCRIBE THE ENVIRONMENTAL SETTING OF THE MINING SITE. INCLUDE TOPOGRAPHY, VEGETATION, SURFACE WATER MOVEMENT AND STREAMS, FLOODING, EXISTING ADJACENT LAND USES, AVERAGE ANNUAL RAINFALL, AQUATIC AND TERRESTRIAL WILDLIFE AND OTHER FACTORS PERTAINING TO POTENTIAL OR ACTUAL ENVIRONMENTAL IMPACTS AND THEIR MITIGATION.

Topography of the site ranges from a small sandy flood plain to steep mountainous terrain adjoining the Salinas River which is contiguous to the site. Existing adjacent land use is confined to grazing. The Salinas River flows vary from very high in the winter months to none in the summer. Flooding last occurred in the lower area in 1969 to an elevation of approximately 965. Average annual rainfall is in the area of 20 inches.

Vegetation of the lower area is predominantly willows with an occasional cottonwood. The hillside is classified as North Coast Scrub of the Chaparral species, predominantly Chemise. Buckwheat, Toyon (California Holly), Ceanothus, and Digger Pines are also encountered.

In the lower area, birds such as ducks, finches and warblers are found along with small mammals such as rabbits, wood rats and gophers. The Salinas River is designated as a "Steelhead River" to allow steelhead access to tributaries for spawning.

The upper area wildlife is composed of birds such as California Quail, Scub Jay, Brown Towhee and Road Runners. Animals found might be deer, coyote, bob cat, ground squirrels, wood rats, kangaroo rats and some rabbits. Horned lizards, Western Fence lizards and Gopher snakes would represent the reptiles.

Impacts are not significant since the area in question is only a tiny percentage of the surrounding area which is identical in nature.

(If additional space is necessary,
Attach additional sheets)

F: MINERAL PROCESSING & WASTE DISPOSAL

F-1. ATTACH A DIAGRAMMATIC SKETCH OF THE ENTIRE MINERAL PROCESSING SYSTEM.

F-2. WILL ANY WASTE MATERIAL RESULT FROM THE PROCESSING OPERATIONS?
YES NO IF YES, HOW WILL THIS MATERIAL BE DISPOSED OF?

Silt washed from the aggregates is disposed of in settling ponds.

F-3. FOR WET PROCESSING OPERATIONS:

A. Estimate quantity (gallons per day) and quality of water required by the (proposed) processing operation, specifying (proposed) sources of this water, methods of its conveyance to the property, and the quantity and method of disposal of used and/or surplus water. (See attached)

B. Submit a diagrammatic flow chart of the process water handling system and attach a narrative explanation of the system.

C. Type of collection basins used:

() Concrete () Wood () Steel (X) Earthen

D. For Earthen basins only, explain how the bottom and sides will be made impervious and the slopes stabilized to prevent erosion.

Basin initially allows water to percolate back into the ground water until the silt seals the voids and makes it impervious.

E. Will sludge be removed from the settling basins? Yes No If yes, describe the method and frequency of sludge removal and disposal.

F. If there is (to be) any discharge from the process water system, submit specifications on the basin capacities, minimum retention times, flow rates, analysis of sludge material including settling curves on suspended and total solids in ppm and turbidity in JTU and any other data pertinent to evaluation of the system.

The only discharge is from the quarry which is described in other parts of this application.

(If additional space is necessary, attach additional sheets.)

F-3 Attachment

- A. The amount of water circulated in the processing plant is 750 gpm or 360,000 gallons per day for a normal eight (8) hour shift. The quality of water required is very low in that the water is only used for washing aggregate and sand. No exact quality specifications are used and visual cleanliness is the only concern as far as water used in processing is concerned.

The source of the water is existing ground water in the Salinas River. As needed, a trench is dug in the river bed and fills up with ground water. A permit is obtained from the Department of Fish & Game prior to excavation of this trench. Water is pumped from this trench to the fresh water pond by the plant. From the fresh water pond, the water is pumped to the plant for washing product. The water is pumped from the plant to settling ponds where the silt settles out and the water is returned to the fresh water pond by gravity.

G: CONTINUED

G-4. DESCRIBE METHOD OF SOIL SALVAGE AND STORAGE FOR FUTURE MINE RECLAMATION.

Any necessary soil salvage will take place as the need occurs.

That is, soil to be used on a bench for planting will be taken from a yet unstripped area.

G-5. DESCRIBE METHOD OF REMOVING, HANDLING AND STORING OVERBURDEN.

Covered in G-3

G-6. WHAT WILL BE DONE WITH NON-USABLE MINERAL (IMPURE, OVERSIZE, ETC.) ENCOUNTERED DURING MINING?

Explained in other sections.

(If additional space is necessary, attach additional sheets.)

H: STREAMS

H-1. WILL THIS OPERATION INVOLVE THE RELOCATION, BLOCKAGE, AND/OR ALTERATION OF ANY WATERCOURSE OR STREAM?

YES _____ NO _____

IF YES, WHAT IS THE AREA OF THE WATERSHED ABOVE THE OPERATION?

Paragraph G-1

a. Upper Area (Quarry)

1. Perimeter 8060'

2. Area

(a) Total - 85 acres

(b) Excavated - 48.6 acres

(c) Undisturbed - 31.1 acres

(d) Primary Crusher, Maintenance Area - 5.3 acres

b. Lower Area - Plant, Stockpiles, Ponds, Sand

1. Asphalt Plant 5.0 acres

2. Settling Ponds 12.8 acres

3. Sand Areas 27.0 acres (possible overburden disposal)

4. Future Pond & Sand Area 8.2 acres

5. Plant Area 2.6 acres

6. Stockpile Area 6.4

c & d. Mining is currently occurring in approximately the center of the quarry area. Mining will proceed in a northwesterly direction until the perimeter is reached. At that time, mining will proceed in both directions, that is, northeasterly and southwesterly. Face and cut heights are as indicated on the section drawing. It is difficult to designate specific stages of mining and reclamation. No final benches will be encountered for several years and no landscaping or final sloping will be done prior to reaching a final bench. An alternate is to move to the southwest corner of the quarry and develop it to its final benches in that area in a very short time. The decision on which alternate to operate from will be arrived at within one year.

I: CONTINUED

B. How will storm water and runoff be handled within and from the affected area to control erosion and sedimentation of adjacent areas?

The quarry accepts runoff within its limits. The lower area
accepts runoff in several ponds and some runoff goes to the
Salinas River naturally.

C. Will the method outlined in (b) result in a discharge from the operation? Yes X No _____. If yes, will the water be passed through collection basins for settling and neutralization (if necessary) prior to discharging? Yes X No _____. If no, describe in detail proposed methods for handling and monitoring the effluent to ensure the discharge standards of the receiving stream at this point are met.

D. If the discharge(s) in (c) requires treatment, how will this be accomplished?

No treatment required other than settlement.

E. If your operation is upstream from a public or private water supply or if the stream is subject to recreational use, what other steps will be taken to protect these uses?

N/A

(If additional space is necessary, attach additional sheets.)

I: CONTINUED

I-3. DATA TO BE SUBMITTED FOR SETTLING BASINS:

A. Surface Water Erosion Control

1. Maximum surface area to be drained by the basin(s)
_____ acres.
2. Maximum disturbed area to be drained by the basin(s)
_____ acres.
3. Minimum retention time _____ hours.

B. Quarry Dewatering

1. The maximum anticipated discharge is _____ 50,000 gpd _____ GPM,
_____ MGD.
2. Minimum retention time in the pit sump or settling basin(s)
N/A _____ hours.

C. Will sludge be removed from the settling basins?
Yes _____ No . If yes, describe the method and frequency of
sludge removal and disposal. (Locate disposal site(s) on The Mine
Development Plan).

D. If sludge is not to be removed, describe method to be used to cover
settling basins after reaching their design capacity.

Overburden from the quarry will be used as a cap for the
settling ponds.

E. Existing Discharges Quarry runoff water and spring seeps.

Discharge characteristics As set by NPDES No. CA004870 issued
by California Regional Water Quality Control Board.

pH	Alkalinity	Acidity	Iron	Total Solids	Suspended Solids
_____	_____	_____	_____	_____	_____

F. Attach both cross-sectional and plan views of the proposed settling
basin(s) (or pit sump) and specify the length, width, depth, slope
ratios and sludge storage capacity.

K: CONTINUED

RECLAMATION NARRATIVE INSTRUCTIONS: (See attached)

- K-2. ATTACH A "RECLAMATION NARRATIVE" DESCRIBING THE PROPOSED METHODS OF RECLAMATION, THEIR PHASING AND TIMING, TO BE USED IN BRINGING THE RECLAMATION OF THE AFFECTED AREA TO ITS END STATE. ALSO, DESCRIBE HOW RECLAMATION WILL BE INTEGRATED WITH THE MINING PLAN (SUPPLEMENTAL "G"). INCLUDE IN THE DISCUSSION THOSE OF THE FOLLOWING TOPICS WHICH ARE APPLICABLE TO THE PARTICULAR MINE BEING RECLAIMED:
- a. Backfilling, grading, and face treatments.
 - b. Stabilization of slopes.
 - c. Stabilization of permanent waste dumps, tailings, settling ponds, etc.
 - d. Rehabilitation of pre-mining drainage.
 - e. Removal, disposal, or utilization of residual equipment, structures, refuse, etc.
 - f. Control of contaminants, (if applicable) especially with regard to surface runoff and groundwater.
 - g. Treatment of streambeds and streambanks to control erosion and sedimentation.
 - h. Removal or minimization of residual hazards.
 - i. Resoiling, revegetation with evidence that proposed (and specified) plants can survive given the site topography, soil and climate, and given the time of year for revegetation.
 - j. All other aspects of the proposed reclamation plan.
- K-3. IF THIS PLAN DOES NOT PROVIDE FOR REVEGETATION ON ALL OR PART OF THE AREA, DESCRIBE IN DETAIL ALTERNATE PROCEDURES PROPOSED TO PREVENT SOIL EROSION AND/OR SILTATION.

K-4. PREPARE A DETAILED COST ESTIMATE, IN TODAY'S DOLLARS, FOR EACH PHASE OF THE PROPOSED RECLAMATION PLAN. COSTS SHOULD BE EXPRESSED AS TOTALS AND AS DOLLARS PER ACRE.

	<u>TOTAL COST</u>	<u>COST/ACRE</u>
Landscaping installation	160,000	2,000
Final grading	50,000	625
Drainage improvements	50,000	625
Plant demolition and cleanup	40,000	500
	300,000	
