

--- SYNTHETIC MINOR OPERATING PERMIT ---

Mission Valley Rock Company
7999 Athenour Way
Sunol, CA 94586
Plant #595
Original Application #13826

(Modified Pursuant to Permit Application #945, Permit Application #17635, Permit Application #17718, Permit Application #18129, and Permit Application #19040)

Conditions #1-19 establish the federally enforceable permit terms that ensure this plant is classified as a Synthetic Minor Facility under District Regulation 2, Rule 6, Major Facility Review, and ensure it is not subject to the permitting requirements of Title V of the Federal Clean Air Act as amended in 1990 and 40 CFR Part 70. Any revision to a condition establishing this plant's status as a Synthetic Minor Facility or any new permit term that would limit emissions of a new or modified source for the purpose of maintaining the facility as a synthetic minor must under go the procedures specified by Rule 2-6, Section 423.

Conditions #*20-*79 are District conditions that do not establish this facility as a synthetic minor. Each of these conditions is marked by an asterisk. The facility must comply with all conditions, regardless of asterisks, and must comply with all District requirements for new and modified sources regardless of its status as a synthetic minor.

This operating permit covers all sources existing at the facility as of permit issuance. The sources and abatement equipment are listed below:

- S1 Aggregate Dryer
- S2 Aggregate Storage
- S3 Truck Loading Hoppers, Asphaltic Concrete
- S4, Conveyors, Wet System
- S5, Cone Crusher, Wet Crushing
- S6 Secondary Screen, Wet
- S7 Primary Screen, Wet Screening
- S8 Jaw Crusher, Wet Operation
- S9 Asphalt Storage Tank
- S10 Gasoline Dispensing Facility
- S12 Liquid Asphalt Storage, 10K gal
- S13-S15 Diesel Fuel Tanks, exempt per 2-1-123.3.5

S16 1800 ft. Conveyor Belt
S19 Rock Crusher
S20 Primary Aggregate Screen
S21 Secondary Aggregate Screen & Conveyor
S22 Secondary Wet Screen, exempt per 2-1-115.1.4.1
S23 Primary Wet Screen
S24 Cone Crusher
S25 Wipe Cleaning Operation
S26 Cold Solvent Cleaner, exempt per 2-1-118.7
S28 Wash & Drain Crushed Rock Piles
S30 3/4 Base Stock Area
S32 Hot Oil Heater
S33 Feed Hopper System
S34 Primary Screen
S35 Secondary Screen
S36 Crusher
S100 Crusher Feeder w/Hopper
S101 3 Deck Screen w/Conveyor
S102 2 Deck Screen w/Conveyor
S104 Rock Crusher
S201 Concrete Tilt Mixer
S202 Cement Batcher
S203 Cement Silo 1A
S204 Cement Silo 1B
S205 Cement Silo 2
S206 Aggregate Storage Silo
S207 Sand Storage Silo
S208 Sand Bin, 50 ton capacity
S209 Sand Bin, 25 ton capacity
S210 Kolman Feed Hopper
S211 Kolman Feed Conveyor w/Cover & Cement Feed
System w/Cover
S212 Cement Silo
S213 Batch Mixer
S214 Truck Loading Batcher
S215 Diesel-fired Generator
S216 Diesel Storage Tank, exempt per 2-1-123.1

AB Sand Feeder, exempt per 2-1-115.1.4.3
Sand Stockpiles, exempt per 2-1-115.1.4.3
Hot Oil Heater, 2.1 MMBtu/hr, exempt per 2-1-114.2
Hot Water Heater, Concrete Plant, 1.9MMBtu/hr, exempt
per 2-1-114.2
Haul Road Plant Access Road, exempt per 2-1-115.1.5

A11 Water Spray System
A16 Water Spray System
A19 Water Spray System
A20 Water Spray System
A21 Water Spray System
A22 Water Spray System

- A23 Water Spray System
- A24 Water Spray System
- A28 Water Spray System
- A30 Water Spray System
- A100 Wetting System
- A101 Wetting System
- A102 Wetting System
- A104 Water Spray System
- A201 Reverse Air Baghouse A202 Weigh Batcher Filter Vent
- A203 Silo Filter Vent
- A204 Silo Filter Vent
- A205 Silo Filter Vent
- A212 Baghouse
- A213 Baghouse; Gencor, Model No.: 132, Capacity:
72,000 CFM

- 1.) The Aggregate Dryer, S1, shall burn only natural gas.
- 2.) S1 shall be abated by A213, baghouse, whenever S1 is in operation.
- 3.) S-1 particulate emissions shall not exceed 0.01 grain per dry standard foot of exhaust gas.
- 4.) S1 shall not produce more than 450,000 tons of asphaltic concrete in any consecutive 12-month period.
- 5.) The combined base area of the stockpiles, at the following sources, shall not exceed a total of 435,600 square feet (10 acres), and the material throughput shall not exceed 3,350,000 tons in any consecutive 12-month period.

S2, Aggregate Storage Piles
 S28, Wash'd Crush'd/Drain Rock
 S30, Base Rock Stockpiles
 Exempt Sand Stockpiles

- 6.) Whenever a stockpile at any of the sources in Condition #5 is being disturbed through the addition, removal, or relocation of material, the stockpile shall be abated by water spray.
- 7.) The following sources shall contain no more than the indicated number of material transfer points and bulk drop points:

	Transfer Points	Bulk Drop Points
a.) S4, Conveyors	11	2

b.)	S16, Conveyors	3	0
c.)	S21, Conveyor for the Secondary Aggregate Screen	10	0
d.)	S33, Spaulding Feed Hopper	4	1
e.)	S100, Crusher Feeder w/Hopper	1	0
f.)	S101, 3 Deck Screen w/Conveyor	1	0
g.)	S102, 2 Deck Screen w/Conveyor	1	0

8.) The solvent usage at S25, Wipe Cleaning Operation, shall not exceed 25 gallons in any consecutive 12-month period.

9.) The material processed at the following sources must contain a moisture content of at least 3.0% by weight:

- a.) S4, S5, S6, S7, S8
- b.) S16, S19, S20, S22, S23, S101
- c.) S102

10.) To demonstrate compliance with Condition #9, the water content of the aggregate material processed at each group of sources in Condition #9 shall be measured according to the following:

- a.) The moisture content of the aggregate material, in weight percent, shall be determined using the California Department of Transportation Test Method 226, "Method of Determination of Moisture Content by Oven Drying."
- b.) Measurements taken at any source within a group defined in Condition #9 may serve to characterize the moisture content of all remaining sources in the group.
- c.) Measurements shall occur at least once during each day of operation, except that the daily testing may be replaced by weekly testing for a group of sources if the measured moisture content is at least 3.5% by weight for seven consecutive days for the group. If weekly testing indicates less than 3.5% moisture by weight, the daily testing schedule shall be resumed.

11.) The material throughput at the following sources shall not exceed the indicated amounts in any consecutive 12-month period:

	Maximum material processed(tons)
a.) S4, Conveyors	1, 000, 000

b.)	S5, Cone Crusher	300,000
c.)	S6, Secondary Screen	700,000
d.)	S7, Primary Screen	1,000,000
e.)	S8, Secondary Jaw Crusher	150,000
f.)	S36 Crusher	800,000
g.)	S16, Overland Conveyor	3,000,000
h.)	S19, Primary Rock Crusher	450,000
i.)	S20, Primary Aggregate Screen	1,680,000
j.)	S21, Secondary Aggregate Screen	1,060,800
k.)	S22, Secondary Wet Screen	1,200,000
l.)	S23, Primary Wet Screen	3,000,000
m.)	S24, Cone Crusher	240,000
n.)	S33, Spaulding Feed Hopper	800,000
o.)	S34, Primary Screen	800,000
p.)	S35, Secondary Screen	480,000
q.)	S36 Crusher	500,000
r.)	S100, Crusher Feeder with Hopper	1,100,000
s.)	S101, 3 Deck Screen with Conveyor	1,200,000
t.)	S102, 2 Deck Screen with Conveyor	417,000
u.)	S104, Rock Crusher	858,000
v.)	S202, Cement Batcher	130,000
w.)	S210, Kolman Feed Hopper	45,000
x.)	S211, Cement Feed System & Conveyor	50,000
y.)	S212, Cement Silo	5,000
z.)	S213, Batch Mixer	50,000
aa.)	S214, Truck Loading Batcher	50,000

12.) The Concrete Tilt Mixer, S201, shall not produce more than 400,000 cubic yards of concrete in any consecutive 12-month period.

13.) During operation of any of the following sources, the operating source shall be abated by its corresponding baghouse:

S201,	Concrete Tilt Mixer
S202,	Cement Batcher
S203,	Cement Silo 1A
S204,	Cement Silo 1B
S205,	Cement Silo 2
S212,	Cement Silo

14.) The combined throughput of material at the following groups of sources shall not exceed the indicated amounts in any consecutive 12-month period:

	Maximum material processed(tons)
a.) S203 & S204 & S205, Cement Silos	130,000
b.) S206 & S207, Aggregate Storage Silo & Sand Storage Silo	300,000

- 15.) The Diesel Generator, S215, shall operate no more than 250 hours in any consecutive 12-month period.
- 16.) The combustion of fuel at non-mobile sources shall occur only at the following:
- S1 - Aggregate Dryer
 - S215 - Diesel Generator
 - Exempt Hot Oil Heater (2.1 MMBtu/hr)
 - Exempt Hot Water Heater (1.9 MMBtu/hr).
- 17.) Mission Valley Rock shall maintain the following records in a District-approved log:
- a.) for S1 and S201: daily records and monthly totals of the amount of asphaltic concrete produced in tons and the amount of concrete produced in cubic yards;
 - b.) for S-2, S4 through S8, S16, S19 through S24, S-28, S-30, S33 through S36, S100 through S102, S104, S202, S210 through S214: daily records and monthly totals of the amount of material processed in tons;
 - c.) for S203 through S205, S206 & S207, S208 & S209: daily records and monthly totals of the combined amount of material processed by each group of sources in tons;
 - d.) for S4 through S8, S16, S19, S20, S22, S23, S101, S102: daily records of aggregate moisture content, as required by Condition #9 and a monthly summary of the number of days on which the content was less than 3.0% by weight at any group of sources;
 - e.) for S25: daily records and monthly totals of solvent usage in gallons; and
 - f.) for S215: daily records and monthly totals of operating hours.
- The summaries shall be complete within twenty business days after the end of each month. The log shall be retained for at least five years from the last date of entry and be available on site for review by District staff upon request.
- 18.) Mission Valley Rock shall notify the District within five working days of determining that the facility has not complied with any of the aforementioned permit conditions.

- 19.) Every year, Mission Valley Rock shall prepare and submit an annual report to the Enforcement Division of the District. This report shall contain the following:
- a.) the monthly production of asphaltic concrete at S1 and of concrete at S201 for the past twelve months, totalled to show the rolling 12-month sums for each month;
 - b.) for S4 through S8, S16, S19 through S24, S33 through S36, S100 through S102, S104, S202, S210 through S214: the monthly totals of material processed at each source for the past twelve months, totalled to show the rolling 12-month sums for each month;
 - c.) S203 through S205, S206 & S207, S208 & S209: monthly totals of the combined amount of material processed by each group of sources for the past twelve months, totalled to show the rolling 12-month sums for each month;
 - d.) for S4 through S8, S16, S19, S20, S22, S23, S101, S102: monthly summaries of the number of days on which the water content of the material processed was less than 3.0% by weight for each group of sources;
 - e.) for S25: the monthly solvent usages, including solvent type, for the past twelve months, totalled to show the rolling 12-month sums for each month; and
 - f.) the hours of operation each month for S215 for the past twelve months, totalled to show the rolling 12-month sums for each month.

This report shall be prepared for the consecutive 12-month period ending on January 31 and shall be submitted within two calendar months of the annual permit renewal date (by April 1). For the first year, the rolling 12-month limits will start with the permit issuance date.

Condition #2104 from Application #4861:

(Modified pursuant to Permit Application #945, Permit Application #18129, and Permit Application #19040)

*20.) The total particulate emissions emitted from sources S16, S19 through S21, S36, and S104 shall not exceed 11.632 tons per year nor 140 pounds per day.

*21.) The total throughput of rock material for the crushing and sizing operation, as measured by S16, shall not exceed 1,200 tons per hour,

20,000 tons per day, nor 3,000,000 tons per year.

*22.) Visible particulate emissions from sources S16, S19 through S21, S36, and S104 shall not exceed Ringelmann No. 0.5 nor result in fallout on adjacent property in such quantities as to cause annoyance to any other person.

*23.) Water spray bars shall operate at all times to comply with Condition #21.

*24.) If any source proves to be inadequately controlled by its water spray bars, Mission Valley Rock shall install one or more of the following abatement devices on that source, as deemed necessary by the District, to comply with Condition #19.

- a.) Additional water spray bars
- b.) Wetting agent in water spray system

*25.) The total throughput of rock material shall not exceed the amounts indicated below:

	tons per year
a.) S16, Conveyor System	3,000,000
b.) S19, Jaw Crusher	450,000
c.) S20, Primary Screen	1,680,000
d.) S21, Secondary Screen	1,060,800
e.) S36, Crusher	800,000
f.) S104, Rock Crusher	858,000

*26.) The daily throughput of rock material shall be recorded in a District-approved log and retained for at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.

Condition #2103 from Application #456:

*27.) The total annual throughput of liquid asphalt at S12 - Liquid Asphalt Storage Tank shall not exceed 2,500,000 gallons.

*28.) The weekly throughput of liquid asphalt shall be recorded in a District-approved log and retained for at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.

Condition #2368 from Application #1650:

- *29.) The total throughput of rock material at S22 - Secondary Wet Screen shall not exceed 1,200,000 tons per year.
- *30.) Visible particulate emissions from S22 shall not exceed Ringelmann No. 0.5 nor result in fallout on adjacent property in such quantities as to cause annoyance to any other person.
- *31.) Water Spray Bars, A22, shall operate at all times S22 is operating to comply with Condition #29.
- *32.) If S22 proves to be inadequately controlled by its water spray bars, A22, Mission Valley Rock shall install one or more of the following abatement devices on that source, as deemed necessary by the District, to comply with Condition #29:
 - a.) Additional water spray bars
 - b.) Wetting agent in water spray system
- *33.) The daily throughput of rock material at S22 shall be recorded in a District-approved log and retained for at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.

Condition #3542 from Application #4861:

- *34.) The total particulate emissions emitted from S23 - Primary Wet Screen and S24 - Cone Crusher shall not exceed 1.2 tons per year nor 10 pounds per day.
- *35.) The total throughput of rock material shall not exceed the following amounts:

	tons per year	tons per day
a.) S23, Primary Wet Screen	3,000,000	20,000
b.) S24, Cone Crusher	240,000	2,200
- *36.) Visible particulate emissions from sources S23 and S24 shall not exceed Ringelmann No. 0.5 nor result in fallout on adjacent property in such quantities as to cause annoyance to any other person.
- *37.) Water Spray Bars, A23, shall operate at all

times in which S23 is operational to comply with Condition #35.

- *38.) If S23 or S24 proves to be inadequately controlled by its water spray bars, Mission Valley Rock shall install one or more of the following abatement devices on that source, as deemed necessary by the District, to comply with Condition #36:
 - a.) Additional water spray bars
 - b.) Wetting agent in water spray system

- *39.) The daily throughput of rock material shall be recorded in a District-approved log and retained for at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.

Condition #9381 from Application #10755:

- *40.) The monthly net wipe cleaning solvent usage at S25 - Wipe Cleaning Operation shall be recorded in a District-approved log. This log shall be retained for a period of at least five years from date of entry. This log shall be kept on site and made available to District staff upon request.

Condition #3805 from Application #5736:

- *41.) Visible particulate emissions from sources S201 through S209 in the concrete batch plant shall not exceed Ringelmann No. 0.5 nor result in fallout on adjacent property pursuant to Regulation 6-305.
- *42.) All particulate emissions from the handling of cement at sources S201 through S205 shall be vented under negative pressure to baghouses A201 through A205. Each baghouse shall be equipped with a District-approved manometer to measure the pressure drop across the baghouse.
- *43.) The outlet grain loading at each baghouse (A201 through A205) shall not exceed 0.02 gr/dscf.
- *44.) Cement shall be delivered by haul trucks and transferred pneumatically in an enclosure to elevated storage silos, S203, S204, and S205.

- *45.) All haul roads and access roads shall be paved.
- *46.) Sources S201 through S205 and their baghouses (A201 through S205) shall not operate more than 16 hours in any consecutive 24-hour period.
- *47.) Sources S201 through S205 and their baghouses (A201 through S205) shall not operate more than 3,000 hours in any consecutive 365-day period.
- *48.) The total amount of concrete produced at this facility, including sources S201 through S209, shall not exceed 400,000 cubic yards in any consecutive 365-day period.
- *49.) The total amount of sand processed at sources S206 and S207, combined, shall not exceed 300,000 tons in any consecutive 365-day period.
- *50.) The daily throughput of concrete and sand at the concrete batch plant and hours of operation for sources S201 through S205 shall be recorded in a District-approved log and be retained for a period of at least five years from date of entry. This log shall be kept on site and made available to the District staff upon request.

Condition #12742 from Application #13585:

- S210 Kolman Feed Hopper; Portable, Capacity 600 tph
- S211 Kolman Feed Conveyor w/Cover and Cement Feed System w/Cover; Covered, Portable, Capacity 600 tph
- S212 Cement Silo; Portable, Capacity 100 tons abated by A212 Baghouse; Pluto Model V-100
- S213 Batch Mixer; Covered, Portable, Eagle 36" Stabilized Base Mixer BM-D21413-7, Capacity 600 tph
- S214 Truck Loading Batchers; Eagle Iron Works BM-D21413-7, Capacity 600 tph
- S215 Diesel Fired Generator; Holt HEC-250-0, Skid Mounted, Portable, Capacity 250 kW and 335 hp

- *51.) The total amount of aggregate material processed at the following sources shall not exceed the indicated amounts in any consecutive 365-day period:

maximum
throughput
(tons)

- a.) S210, Kolman Feed Hopper 45,000
- b.) S211, Kolman Feed Conveyor w/Cover & Cement Feed System w/Cover 50,000
- c.) S212, Cement Silo 5,000
- d.) S213, Batch Mixer 50,000
- e.) S214, Truck Loading Batcher 50,000

*52.) S215 shall be operated no more than 250 hours in any consecutive 365-day period.

*53.) No liquid fuel other than diesel fuel shall be combusted at S215, and the diesel fuel shall contain no more than 0.05 percent sulfur, by weight.

*54.) Visible particulate emissions from S210 through S215 shall not exceed Ringelmann 0.5 nor result in fallout on adjacent property pursuant to Regulation 6-305.

*55.) S212 shall be abated by A212 at all times that S212 is a source of particulate matter emissions.

*56.) The outlet grain loading of the A212 Baghouse shall not exceed 0.01 grain per dry standard cubic foot of exhaust gas.

*57.) Emissions from S215 shall not exceed the following levels:

- | | grams/brake horsepower-hour |
|---------------------|-----------------------------|
| a.) Nitrogen oxide | 6.6 |
| b.) Carbon monoxide | 2.75 |

*58.) Emissions from S215 shall not exceed the following levels in any consecutive 365-day period:

- | | Tons |
|---------------------|-------|
| a.) Nitrogen oxide | 0.609 |
| b.) Carbon monoxide | 0.254 |
| c.) Sulfur dioxide | 0.117 |
| d.) PM10 | 0.268 |

*59.) Mission Valley Rock shall maintain a District-approved log indicating the combined throughput of all aggregate materials to S210, S211, S212, S213, S214, and S215 in tons. This log shall be retained for a period of at least five years from date of last entry, kept on site, and made available to District staff upon

request.

Condition #13326 from Application #12821:

(Modified pursuant to Permit Application #19040)

S28 Rock Stockpiles: Washed Crushed Rock and Washed Drain Rock 3/8" to 1.5" (3.5 - 4.5% Moisture) abated by A28 Water Spray System

S30 3/4" Base Rock Stockpile (2 - 3% Moisture) abated by A30 Water Spray System

- *60.) S28 particulate emissions shall be abated by A28 Water Spray System
- *61.) S30 particulate emissions shall be abated by A30 Water Spray System
- *62.) Fugitive particulate emissions from S28 and S30 shall not exceed Ringelmann 0.5 nor result in fallout on adjacent property pursuant to Regulation 6-305.
- *63.) The S28 and S30 Stockpiles shall be water-wetted when active and when aggregate materials are added to or removed from the stockpiles.
- *64.) The cumulative surface area of the base of all of the S28 Stockpiles combined shall not exceed 43,560 square feet (1 acre), and material throughput shall not exceed 1,200,000 tons per consecutive 12-month period .
- *65.) The cumulative surface area of the base of all of the S30 Stockpiles combined shall not exceed 43,560 square feet (1 acre), and material throughput shall not exceed 1,300,000 tons per consecutive 12-month period .
- *66.) The daily amount of aggregate material throughput to S28 and S30, in tons, shall be recorded in a District-approved log. The daily amount shall be totalled on a monthly basis to demonstrate compliance with condition #64 and #65. This log shall be retained for at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.

Conditions Imposed Pursuant to Application #15496

S-1 Aggregate Dryer; Gencor Ultradrums, Capacity: 400 ton/hr, Counterflow Continuous Flow, Max. Firing

Rate: 135 MMBTU/hr, Natural Gas Fired abated by A-213 Baghouse; Gencor, Model No.: 132, Capacity: 72,000 CFM

- *67.) S-1 shall be fired only on natural gas.
- *68.) NO_x emissions from S-1 shall not exceed 90 ppm_v, dry, at 3 percent oxygen.
- *69.) CO emissions from S-1 shall not exceed 400 ppm_v, dry, at 3 percent oxygen.
- *70.) S-1 particulate emissions shall not exceed 0.01 grain per dry standard foot of exhaust gas.
- *71.) At all times that S-1 is operational, it shall be abated by A-213 Baghouse.
- *72.) Baghouse A-213 shall be properly maintained and kept in good operating condition at all times. Baghouse A-213 shall be equipped with a District approved device for measuring the pressure drop across the baghouse {or a District-approved broken bag detection device of high sensitivity, such as a Triboflow leak detector or equivalent}.
- *73.) Visible particulate matter emissions from S-1 and/or A-213 shall not exceed Ringelmann 0.5 or result in fallout on adjacent property in amounts which cause a public nuisance.
- *74.) The stack at S-1 shall be equipped with District approved source testing ports to allow for the suitable sampling and testing of process flue gas emissions from S-1.
- *75.) The usage of natural gas at S-1 shall not exceed 463 million cubic feet in any rolling 12 consecutive month period.
- *76.) The total amount of asphaltic concrete produced at S-1 shall not exceed 450,000 tons during any rolling 12 consecutive month period.
- *77.) The usage of natural gas at S-1, as measured at a District approved fuel meter dedicated solely to this source, shall be recorded monthly in cubic feet (or thousands of cubic feet) in a District approved log. This log shall be retained for at least five years from date of

last entry. This log shall be kept on site and made available to the District staff upon request.

*78.) The production rate of asphaltic concrete at S-1 shall be recorded monthly in a District approved log, in ton units. This log shall be retained for at least five years from date of last entry. This log shall be kept on site and made available to the District staff upon request.

*79.) In accordance with the provisions of Regulation 2, Rule 4, should the facility nitrogen oxide (NO_x) emissions ever equal or exceed 50 tons per year, the facility owner/operator shall reimburse the District with emission reduction credits for all offsets provided from the District Small Facility Banking account or its predecessor, the Small Facility Bank.