

SMAQMD
AREA SOURCE SUMMARY - SACRAMENTO COUNTY

Section ##
Mineral Processes

EMISSION INVENTORY SOURCE CATEGORY

Sand & Gravel Excavation and Processing Losses

EMISSION INVENTORY CODES (CES CODES) AND DESCRIPTION

430-422-7078-0000 (46995) – Sand & Gravel Excavation and Processing Losses

430-426-7078-0000 (47019) – Grinding/Crushing of Aggregates

METHOD SUMMARY

This emission category accounts for PM emissions from sand and gravel excavation and processing losses, which include conveying, screening, crushing, storage piles and haul road dust. Grinding/crushing operation (EIC 430-426-7078-0000) is included in the sand and gravel processing losses and, therefore, its associated emission inventory is zeroed. According to the 1997 U.S. Census, County Business Patterns, there are 5 construction sand and gravel establishments in Sacramento County. Since this emission category has a limited number of facilities, a bottom-up approach is used. Each facility is surveyed and inventoried individually, and the sum of all facilities is reported under this area source category. In June 2001, the permit database has 7 sand and gravel facilities. Of which, five facilities are inventoried as point sources.

Comparing the number of sand and gravel establishments indicated in the County Business Patterns to the number of companies with rock crushing plant permits, it appears that the District has capture all the sand and gravel operations in Sacramento County in its permit system. Therefore, the total emissions from the permitted rock crushing operations should represent the total Sacramento sand and gravel emissions. For quality control, the amount of sand and gravel produced by the permitted rock crushing plants is compared to the sand and gravel production determined using the California production figure and the ratio of Sacramento to California sand and gravel employment from the U.S. Census. Both calculations yield a production figure of between 10 to 11 million tons.

Using production data from 1999 and 2000 and calculation procedure in the permit evaluation, the PM and PM10 emissions are determined. The total unreconciled emissions for sand and gravel excavation and processing losses is the sum of all permitted rock crushing plant emissions.

ACTIVITY DATA SOURCE: 1999/2000 survey data.

EMISSION FACTOR SOURCE: AP-42, District Permit Evaluation.

TEMPORAL DATA:

Daily Activity: 16 hours per day.

Weekly Activity: 6 days per week.

Monthly Activity: 52 weeks per year.

DATE OF THE LAST UPDATE: 1991.

GROWTH PARAMETER: mfg-mnrl.

EMISSION SUMMARY (1999 - ANNUAL AVERAGE TONS/DAY) UNRECONCILED

<u>CES#</u>	<u>TOG</u>	<u>ROG</u>	<u>CO</u>	<u>NOX</u>	<u>SOX</u>	<u>PM</u>	<u>PM10</u>
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46995	0	0	0	0	0	0.69	0.27
47019	0	0	0	0	0	0	0

NEEDED CLARIFICATIONS/CORRECTIONS TO CURRENT METHOD

None.

FUTURE PLANS FOR METHOD UPDATE/REVISION

None.

Prepared By: Hao Quinn

Date: July 3, 2001

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