

Cal Portland – Air Quality Permit 6200
Technical Support Document (TSD)
September 2016

I. General Comments:

A. Source Information

Source Name: Cal Portland
Plant Name: Orange Grove Crushing and Screening Plant and Concrete Batch Plant
Site Location: 6601 N. Casa Grande Hwy, Tucson, AZ 85743
Mailing Address: 2400 N. Central Avenue, Phoenix, AZ 85004

B. Background

This Class II Air Quality permit is a renewal of the five year, individual air quality permits issued to Cal Portland, the Permittee, for their crushing and screening operation, Permit #2212, and their concrete batch plant and wash plant, Permit #1002. These facilities are located on contiguous properties and the crushing and screening plant supplies the aggregate used in the concrete batch plant. The applications submitted by Cal Portland listed the same SIC code for both operations (1499). PDEQ has determined that the two previously separately permitted facilities represented codependent facilities and required permitting together under the same permit.

This facility is a Class II, true minor, stationary source for all criteria pollutants and HAPs. Controlled PM₁₀ emissions at the facility, operating at 8760 hours per year, are approximately 31 TPY. Cal Portland no longer operates generators that were previously permitted under permit #1002.

This source is stationary as defined by Title 17 of the Pima County Code, Title 18 of the Arizona Revised Statutes, and the Clean Air Act.

C. Attainment Classification

The facility is located in an area which is currently in attainment for all criteria pollutants.

II. Source Description

A. Process Description

The facility operates a crushing and screening plant that includes three crushers. One of the crushers, the Vertical Shaft Impactor (VSI), is located at the wash plant and is used to size a small percentage of the washed product. There are two concrete batch plants with a combined rated capacity of 750 tons per hour.

B. Air Pollution Control Equipment

The majority of production lines are controlled by water application via misting and spray bars located at all drop points. Additionally, the Permittee operates baghouses at all of the silos and loadout at the concrete batch plants.

III. Regulatory History

A. Testing & Inspections

Crushing and Screening Plant Permit #2212

Since issuance of the last permit on June 11, 2009, a full compliance evaluation, conducted in September, 2010, found the facility to be in compliance with the permit conditions. One complaint was registered against the facility for dust in June 2014. Upon investigation of the complaint, Cal Portland was found in compliance.

Concrete Batch Plant Permit #1002

Since issuance of the last permit on January 8, 2008, a full compliance evaluation, conducted in July, 2012, resulted in an Opportunity to correct for three deficiencies. The deficiencies were resolved and Cal Portland was issued a letter of compliance. Three complaints were registered against the facility for dust; two in 2013 and one complaint in 2015. Upon investigation of the complaints, Cal Portland was found in compliance.

B. Excess Emissions

There are no reports of excess emissions documented.

IV. Emissions Estimates

The facility is a True Minor source for all pollutants. The following emission rate was derived from Arizona Department of Environmental Quality Crushing and Screening Application Emission Calculation Spreadsheet and is for reference purposes only and is not intended to be enforced by direct measurement unless otherwise noted in the permit:

Pollutant	Controlled Emissions (tpy)
PM ₁₀	31
CO	1
NO _x	1

V. Applicable Requirements

Abbreviations: Code of Federal Regulations (CFR)
New Source Performance Standards (NSPS)
Pima County Code (PCC)

40 CFR 60: Subpart OOO - Standards of performance for Nonmetallic Mineral Processing Plants

(PCC) Title 17, Chapter 17.16:

- 17.16.010 Local rules and standards; Applicability of more than one standard
- 17.16.020 Noncompliance with Applicable Standards
- 17.16.050 Visibility Limiting Standards
- 17.16.060 Fugitive Dust Producing Activities
- 17.16.100 Particulate Materials
- 17.16.110 Storage Piles
- 17.16.130 Applicability
- 17.16.370 Standards of Performance for Gravel or Crushed Stone Processing Plants
- 17.16.380 Standards of Performance for Concrete Batch Plants

VI. ADDITIONAL PERMIT CONDITIONS

PDEQ has included additional permit conditions pertaining to facilities subject to 40 CFR Subpart OOO that commenced construction, modification or reconstruction after April 22, 2008. However, at the time of the application submittals by Cal Portland, there was no equipment listed that would be subject to these additional regulations.

The additional permit conditions that were added are listed below.

- II.B.1.a.ii
- II.C.2
- II.D.1
- II.F.2