

TECHNICAL REVIEW AND EVALUATION

OF APPLICATION FOR

AIR QUALITY PERMIT SIGNIFICANT REVISION NO. 48171

I. INTRODUCTION

This significant revision to permit No. 29042 is for Vulcan Materials Company, for their portable Hot Mix Asphalt Plant (HMAP), currently located in Avondale, Maricopa County. Vulcan Materials Company plans to replace up to 15 percent of their aggregate and oils used in making hot mix asphalt with recycled asphalt (RAP). This change requires a significant permit revision under Arizona Administrative Code (A.A.C.) R18-2-320.B.1, because it requires a change to a limitation that was accepted under A.A.C. R18-2-306.01.

Company Information

Company Name:	Vulcan Materials Company
Mailing Address:	2526 E. University Drive Phoenix, AZ 85034
Facility Name:	Avondale Asphalt and C&S Plant
Facility Address:	5301 South Dysart Road Avondale, Maricopa County, AZ 85323

II. FACILITY DESCRIPTION

Vulcan Materials operates a Hot Mix Asphalt (HMA) Plant with a co-located Crushing and Screening Plant. The HMA Plant has a maximum production capacity of 400 tons per hour (tph). This Significant Revision pertains to the HMA Plant. Vulcan Materials Company plans to replace up to 15 percent of their aggregate and oils used in making hot mix asphalt with RAP.

III. EMISSIONS

No significant emission increases are anticipated from the use of RAP in the asphalt mix. EPA's Air Pollution Engineering Manual, AP-42, Fifth Edition, Chapter 11, states that while the possibility of an increase in VOC emissions when processing RAP in some asphalt plants exists, "the data supporting this hypothesis are very weak."

IV. APPLICABLE REGULATIONS

There are no new applicable regulations triggered by this permit revision.

V. LEARNING SITES

In accordance with ADEQ's Environmental Permits and Approvals Near Learning Sites Policy, the Department conducted an evaluation to determine if any nearby learning sites would be adversely impacted by the Avondale Asphalt and C&S Plant. Learning sites consist of all existing public schools, charter schools and private schools at the K-12 level, and all planned sites for schools approved by the Arizona School Facilities Board. The learning sites policy was established to ensure that the protection of children at learning sites is considered before a permit approval is issued by ADEQ.

No learning sites were identified within two miles of the facility.