ANNUAL REPORT

JULY 1, 2018 – JUNE 30, 2019

Maricopa County AIR QUALITY DEPARTMENT

Working to improve the air of Maricopa County so customers, residents, and visitors can live, work, and play in a healthy environment.

3800 North Central Avenue, Suite 1400
Phoenix, Arizona 85012

602-506-6010 – Main line (8am–5pm weekdays)
602-372-2703 – Report an air quality concern

Maricopa.gov/aq | CleanAirMakeMore.com

AIR MONITORING

57 AIR MONITORS

Total number of monitoring sites located across Maricopa County. In FY2019, monitors captured 26,520 readings per day.

86% GOOD AIR DAYS

Number of days where Maricopa County's air quality met the federal health standard for pollutants.

FINANCE

The department is primarily funded by permit fees and federal grants, and receives secondary sources of funding through the county's general fund, penalties, and donations.

FY2019 operating expenses were below budget, and revenue exceeded the budget due to the continued careful planning and stewardship of department resources.

$18,880,000 FUNDING SOURCES

PERMITS/RULES

FY 2018	FY 2019	
3,829	3,690	DUST PERMITS ISSUED
861	1,105	ASBESTOS NOTIFICATIONS
307	355	SUBCONTRACTOR REGISTRATIONS
313	1,315	GENERAL PERMITS ISSUED
399	429	NON–TITLE V PERMIT ACTIONS
8	11	TITLE V PERMIT ACTIONS

3.6% HEALTHY CONSTRUCTION ACTIVITY

Dust Control Permits provide a good barometer of economic activity. For the first time in seven years, the number of Dust Control Permits issued decreased. The decrease for FY2019 is 3.8% compared to FY2018, but is a 5.5% increase compared to FY2017. Based on this metric, economic activity is still strong, but moderating.

5 RULES ADOPTED

Rules were revised for clarity and to provide updated compliance requirements.

Rule 316 – Nonmetallic Mineral Processing
Rule 360 – New Source Performance Standards
Rule 370 – Federal Hazardous Air Pollutant Program
Rule 371 – Acid Rain
Appendix G – Incorporation Materials

4 RULES APPROVED INTO SIP

A state implementation plan (SIP) is required to demonstrate protection of the National Ambient Air Quality Standards. In FY2019, four rules were fully approved into the SIP and two rules were conditionally approved into the SIP.

620 PERMITTED FACILITIES

Number of permitted facilities that completed their annual emissions inventory report.

COMPLIANCE

The compliance division is responsible for inspecting facilities to determine compliance with applicable regulations and permit conditions.

FACILITIES FOUND IN COMPLIANCE

FACILITY INSPECTIONS

* FY2019 numbers represent routine/full inspections. Inspections prior to FY2019 also included partial inspections and site visits.

80 DUST CONTROL TRAINING CLASSES

Number of classes held on-site, off-site, and online totaling 4,539 participants in FY2019. Courses are offered in English and Spanish.

OUTREACH

96% CUSTOMER SERVICE

1,045 out of 1,187 customers rated their overall experience with the department OUTSTANDING and 94 rated their experience GOOD.

47,102 TOTAL APP DOWNLOADS

An increase of 6,449 downloads from FY2018.

2,767 FACEBOOK PAGE LIKES
3,336 TWITTER FOLLOWERS
267 INSTAGRAM FOLLOWERS

29,193 PEOPLE REACHED

Individuals reached by department participation in 110 outreach events and kiosk locations. Additionally, 3,052 people were reached through 86 presentations delivered.

13,221 STUDENTS REACHED

Number of students reached through classroom visits at 14 schools within 31 districts. Outreach included classes, educational resources, and STEM events.

52 COURTESY SITE VISITS

Business Assistance Program staff completed 52 courtesy site visits at the request of customers.

TRAVEL REDUCTION PROGRAM

1,207 PARTICIPATING EMPLOYERS AT **3,094** WORK & SCHOOL SITES

TOTAL PARTICIPANTS INCLUDED
666,164 EMPLOYEES
159,254 STUDENTS

4,948,291 DAILY COMMUTING MILES REDUCED

PREVENTED **7,014 TONS** OF POLLUTION IN FY2019

812,087 SURVEYED EMPLOYEES AND DRIVING-AGED STUDENTS

AIR POLLUTION REDUCTION PROGRAMS

MOWING DOWN POLLUTION

GAS POWERED LAWN MOWERS REPLACED WITH ELECTRIC OR BATTERY POWERED LAWN MOWERS

FY 2018	409
FY 2019	891

POLLUTION PREVENTED

FY 2018	58 tons of CO | 4 tons of VOCs
FY 2019	126 tons of CO | 9 tons of VOCs

CO = carbon monoxide
VOCs = volatile organic compounds

120 TOTAL HANDHELD DEVICES → **1.23 TONS OF CO .6 TONS OF VOCs** POLLUTION PREVENTED TO DATE

DIESEL EMISSIONS REDUCTION ACT (DERA)

73 VEHICLES FUNDED SINCE 2016

51 VEHICLES REPLACED OR RETROFITTED

with cleaner burning diesel fuel engines, liquefied petroleum gas (LPG) engines, or compressed natural gas (CNG) engines

TOTAL LIFETIME NO_x REDUCTIONS BY YEAR

NO_x = nitrogen oxide

PROPANE FIRE PIT PROGRAM

PROPANE FIRE PITS PURCHASED THROUGH PROGRAM

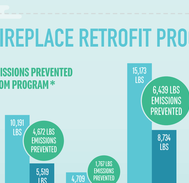
FY 2018	991
FY 2019	999

1,990 PROPANE FIRE PITS USED INSTEAD OF WOOD BURNING

5,970 POUNDS OF PM2.5 POLLUTION REDUCED ANNUALLY

FIREPLACE RETROFIT PROGRAM

EMISSIONS PREVENTED FROM PROGRAM *



* The maximum emissions prevented are based upon a residents' burning-habits survey, which contains a range of numbers.

Amount of PM2.5 that would have been emitted in over three seasons (2016–2019)

Total actual PM2.5 emissions in 2016–2019 from houses with retrofit

Total PM2.5 emissions prevented since retrofit

711 TOTAL RETROFITS as of June 30, 2019

480 GAS LOG SETS INSTALLED

231 AIR POLLUTION REDUCTION DEVICES INSTALLED