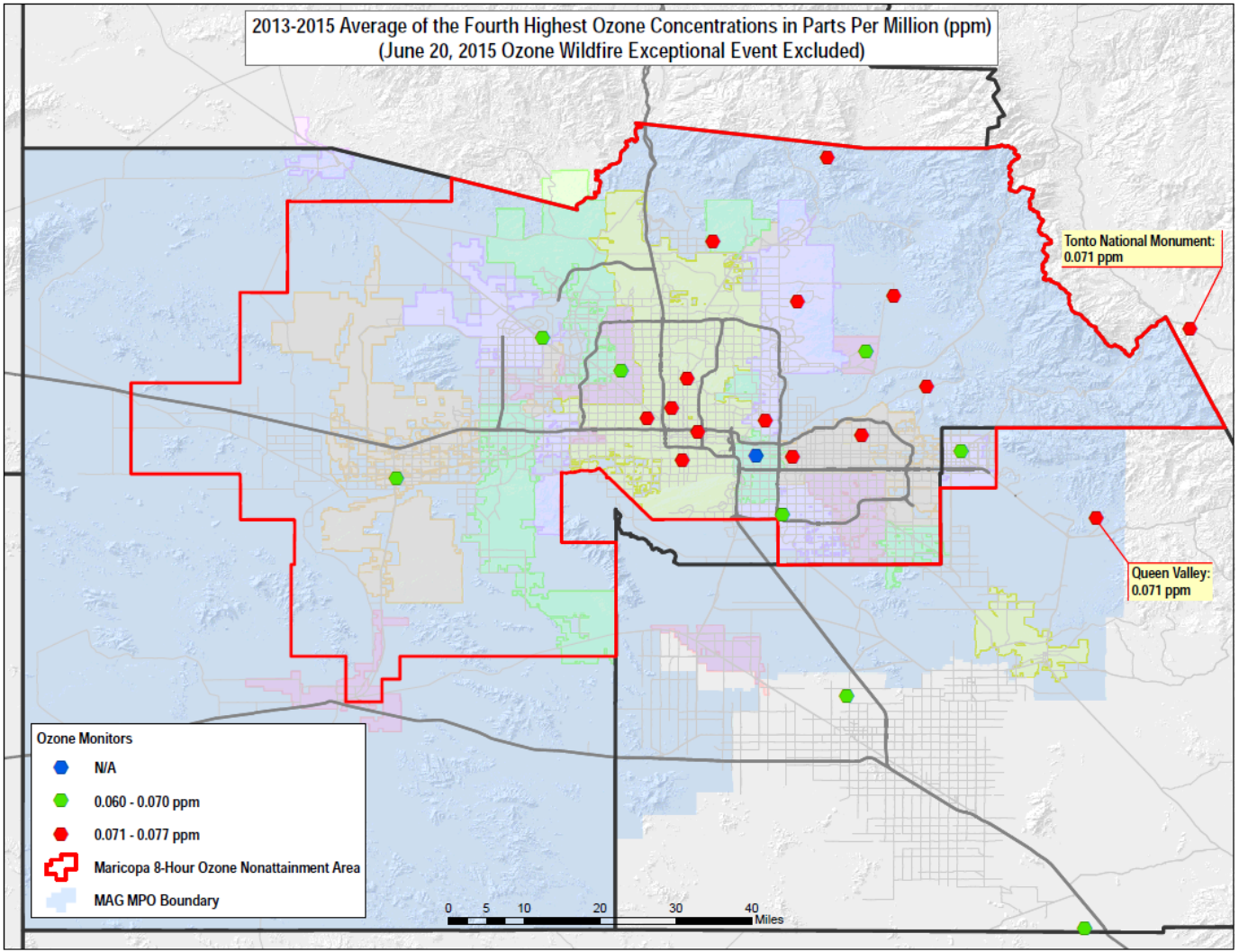
Ozone Boundary Designations

MAG Management Committee
September 14, 2016

MARICOPA ASSOCIATION of GOVERNMENTS

ENVIRONMENTAL PROGRAMS



ADEQ Maricopa Ozone Nonattainment Boundary Recommendation-May 23, 2016

- Four options would be recommended by the State to EPA by October 1, 2016.
- Allows for the consideration of newer, more recent air quality data, which may be cleaner.
  - EPA will be evaluating 2014-2016 data and possibly 2017 data and finalize the boundary designation by October 1, 2017.
- If the downward trend continues and the 2 monitors meet the standard, the boundary would not need to be expanded.
- Provides a streamlined approach rather than the State revising its recommendation after it is made.

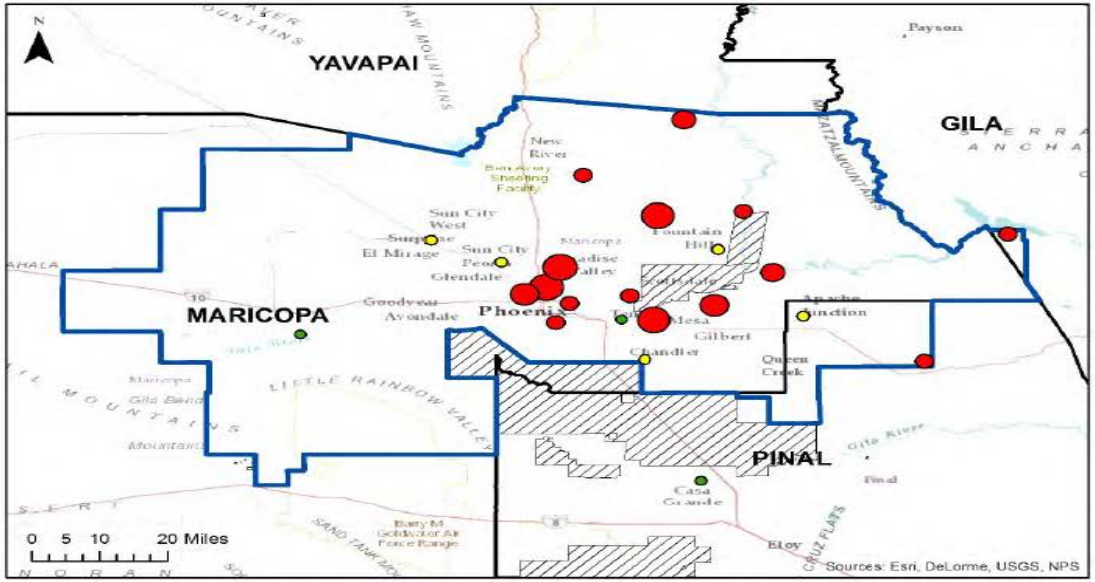
ADEQ Maricopa Ozone Nonattainment Boundary Recommendation-August 9, 2016 Stakeholder Meeting

- ADEQ reported that EPA did not look favorably upon submitting the current ozone boundary as the preferred option.
- ADEQ's primary recommendation will now be the expansion of the current boundary to include the Queen Valley monitor in Pinal County and the Tonto National Monument monitor in Gila County.
- 3 other alternatives will be presented to not expand the boundary if the Queen Valley and/or Tonto National Monument monitors meet the standard.
- Based upon 2014-2016 monitor data, both monitors are at 0.071 parts per million, slightly over the 0.070 parts per million standard.

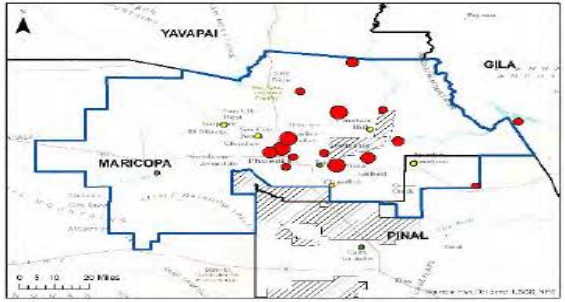
ADEQ Maricopa Ozone Nonattainment Boundary Recommendation-August 9, 2016 Stakeholder Meeting

- The Queen Valley monitor began violating the standard on May 31, 2016.
- Until recently, the Tonto monitor was meeting the standard. However, it was discovered that the monitor had shut down on June 22, 2015 in the evening due to a pump failure. Since the monitor had 6 hours of data over the standard, it would count as an exceedance, causing a violation.
- ADEQ has indicated that if the monitor had not failed and had the usual 8 hours of data, the monitor would not have violated the standard due to the declining ozone concentrations in the evening.

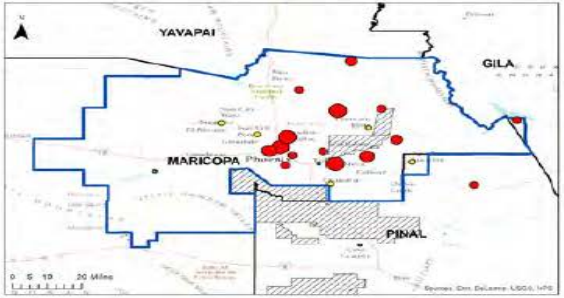
Final Recommendation and Alternatives



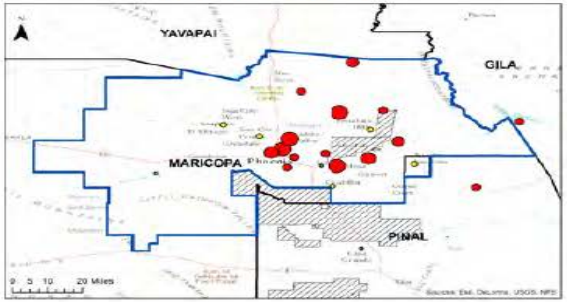
Alternative A



Alternative B



Alternative C

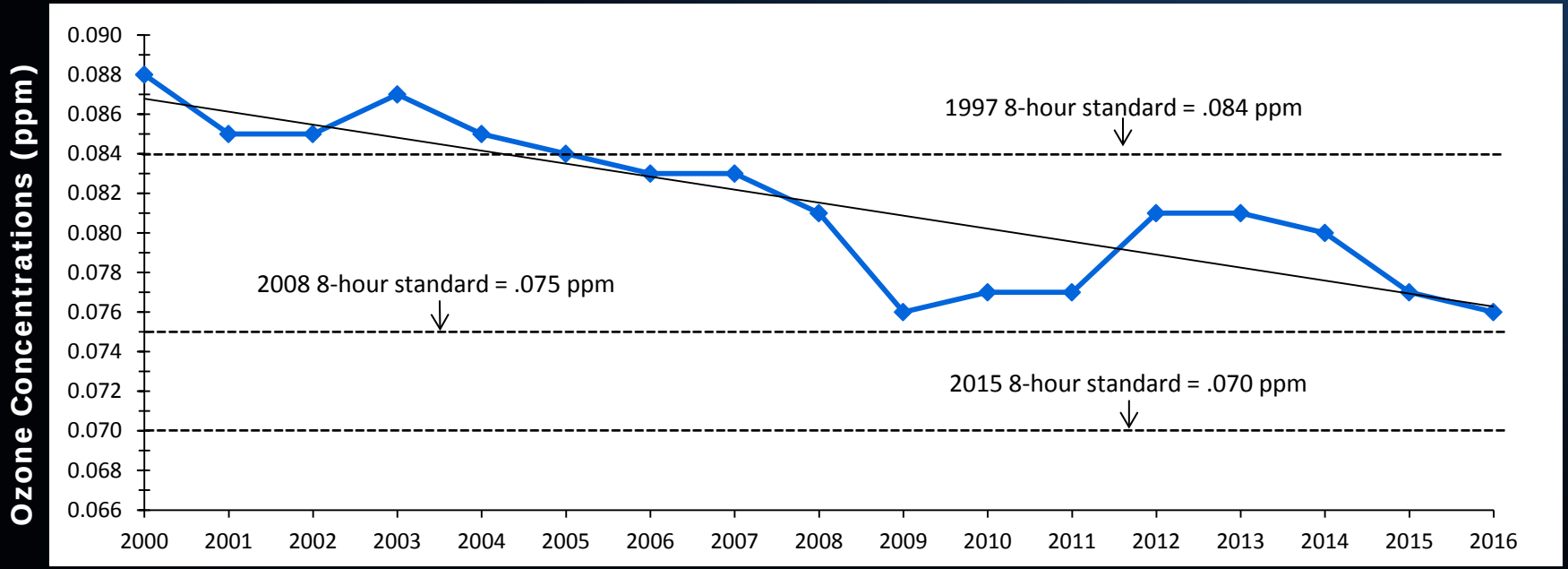


Issues With the ADEQ Primary Ozone Boundary Recommendation

- There will be tighter controls on business and industry inside the new area added.
- Transportation conformity requirements will apply.
- These requirements could have a negative impact on economic development in Pinal County.
  - Pinal County needs employment centers and job growth.
  - Employment centers could reduce the length of work trips and reduce ozone.

Eight-Hour Ozone Monitoring Data

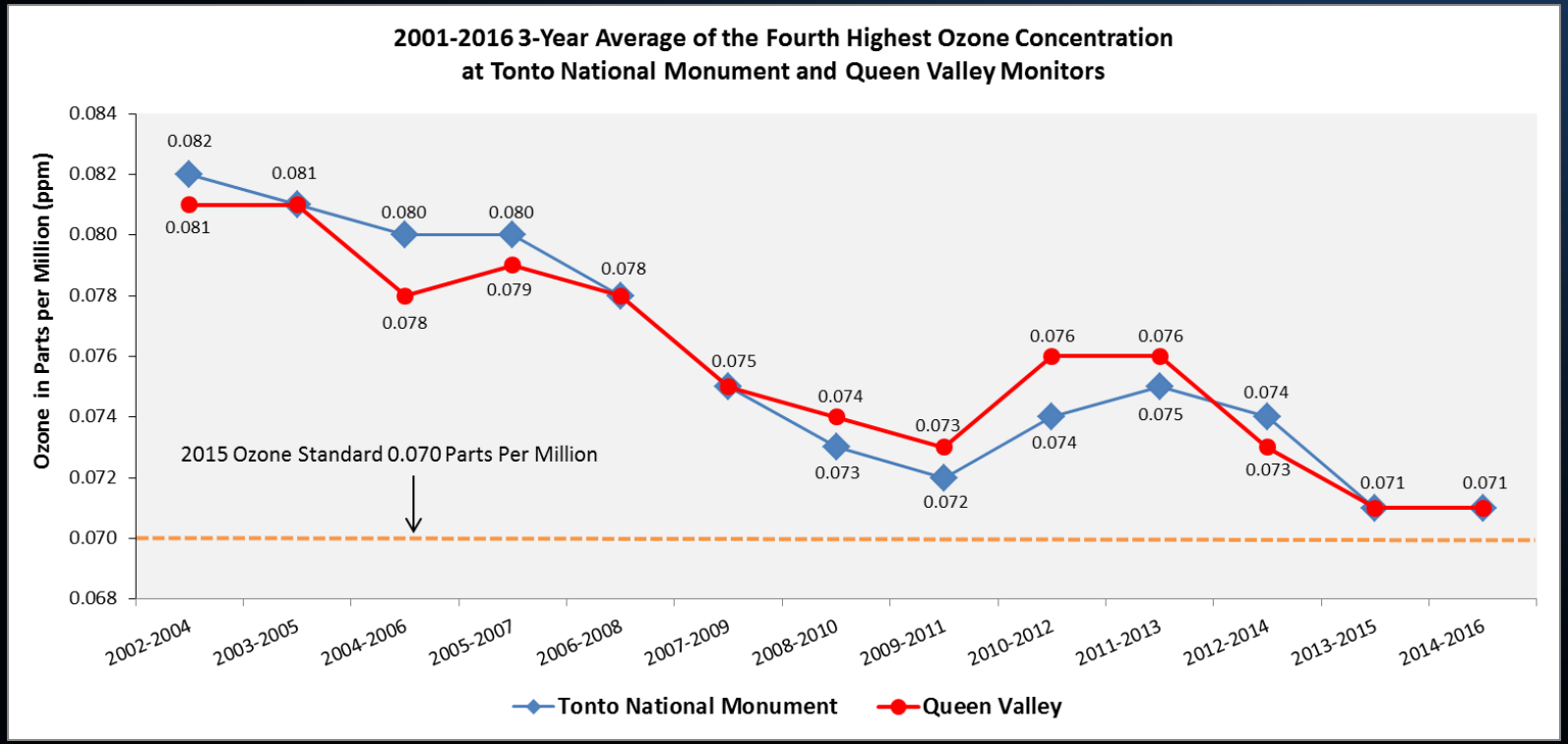
Highest 3-Year Average of the 4th Highest 8-Hour Ozone Concentration in the Maricopa Nonattainment Area



Notes:

- Data for 2015 excludes exceedances from a potential exceptional event that occurred on June 20, 2015.
- The 2016 values are based on preliminary data through August 22, 2016.
- To attain the eight-hour ozone standard, the 3 year average of the 4th highest daily maximum 8-hour concentration at each monitor per year must not exceed the standard.
- Due to mathematical rounding, values greater than or equal to .085 ppm are necessary to exceed the .08 ppm eight-hour ozone standard.
- Sources: 2000-2008: MAG Eight-Hour Ozone Redesignation Request and Maintenance Plan for the Maricopa Nonattainment Area, February 2009; 2009-2015: EPA Air Quality System; 2016: Maricopa County, Pinal County, Arizona Department of Environmental Quality.

Ozone Monitoring Trend Data at Queen Valley and Tonto National Monument



Notes:

- The June 20, 2015 exceedance of 0.079 ppm at the Tonto monitor is excluded from the data as an exceptional event caused by the Lake Fire in San Bernardino County, California.
- The 2016 values are based upon preliminary data through August 22, 2016.

EPA Authority to Delay Ozone Boundary Designations

- In the final notice for the 2015 ozone standard, EPA indicated that under some circumstances EPA may need an additional year for the designation process to ensure that air agencies and EPA base designations on complete and sufficient information.

- EPA has the authority to delay the boundary designations for up to one year (Clean Air Act Section 107(d)(1)(B)(i)).

- A one year delay would allow for the consideration of newer, more complete monitor data, which may be cleaner.

Arizona Department of Environmental Quality Boundary Designation Schedule

- Prepared draft designations document-May 31, 2016.
- Public review process-May, June 2016.
- Public hearing-July 1, 2016.
- Conducted a stakeholder meeting-August 9, 2016.
- Submit designations document to Governor-September 1, 2016.
- Governor submits to EPA-October 1, 2016.

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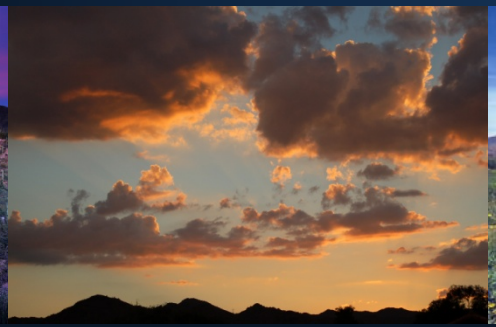

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