



# I-10 Dust Mitigation/Stabilization Projects

Arizona Department of Environmental Quality

March 5, 2019





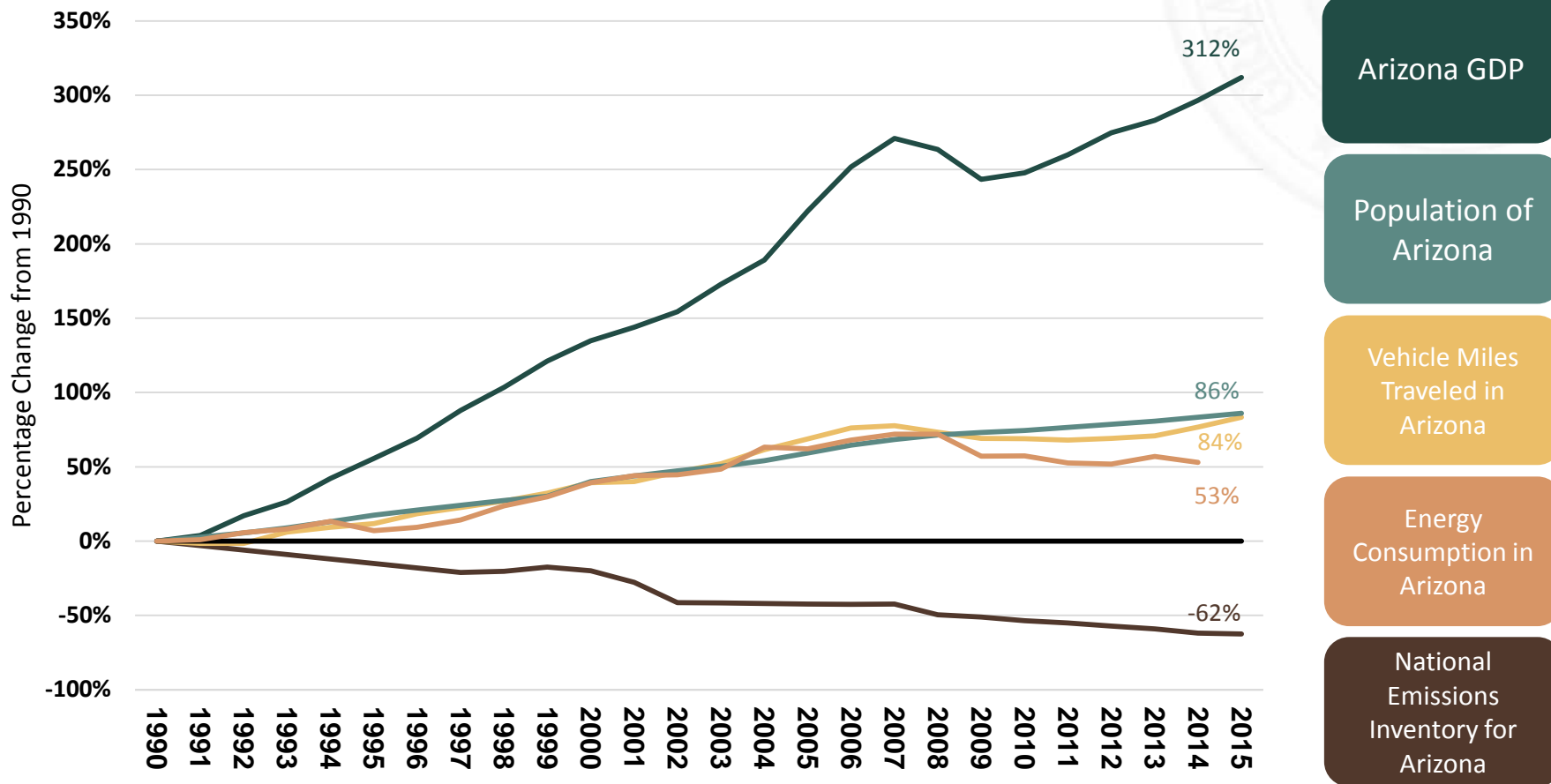
Air Quality Division

# MISSION

## Our Mission

To protect and enhance public health and the environment by ensuring that ambient air is healthy to breathe, visibility in national parks and forests is pristine, and air quality does not negatively impact environmental systems. AQD accomplishes that mission by controlling current and future sources of air pollution.

# Arizona Growth Factors & Emission Trends (1990-2015)



Sources

Gross Domestic Product for Arizona: U.S. Bureau of Economic Analysis  
 Vehicle Miles Traveled in Arizona: Arizona Department of Transportation  
 Population of Arizona: U.S. Census Bureau  
 Energy Consumption in Arizona: U.S. Energy Information Administration  
 National Emissions Inventory for Arizona: U.S. Environmental Protection Agency



Business  
Partners



Air Quality  
Agencies



Community-based  
Effort & Partnership

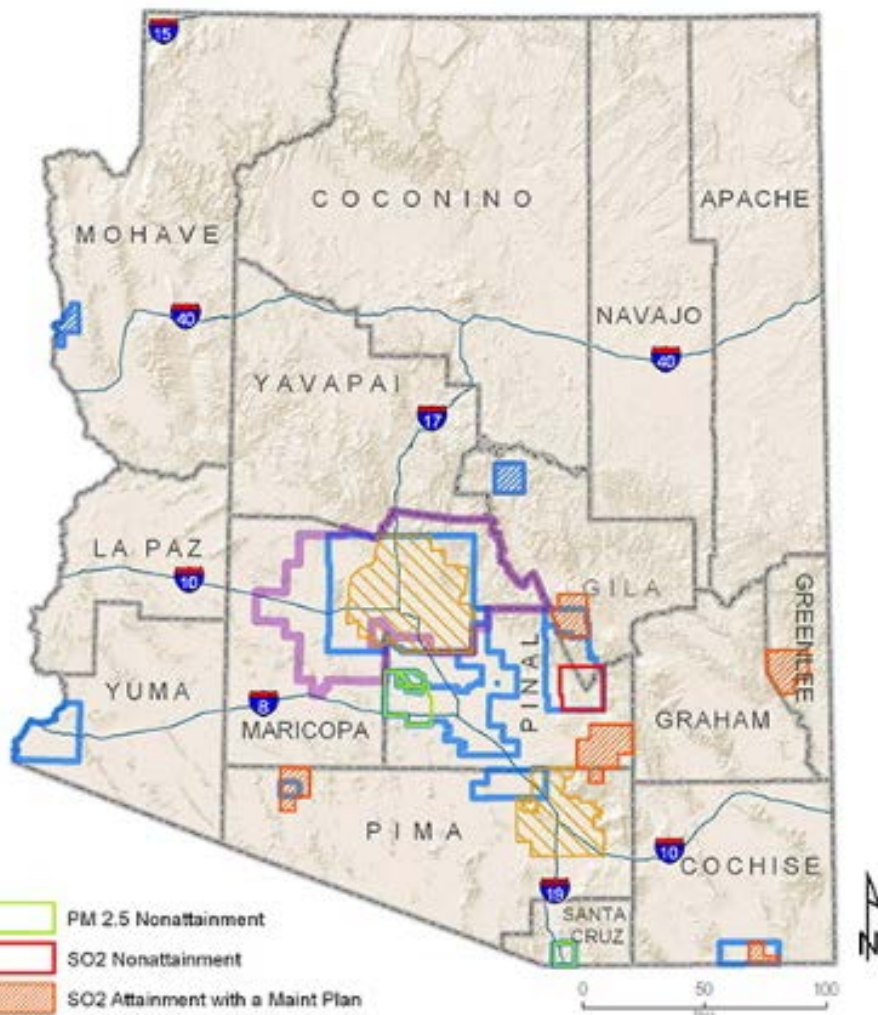


Community  
Leaders

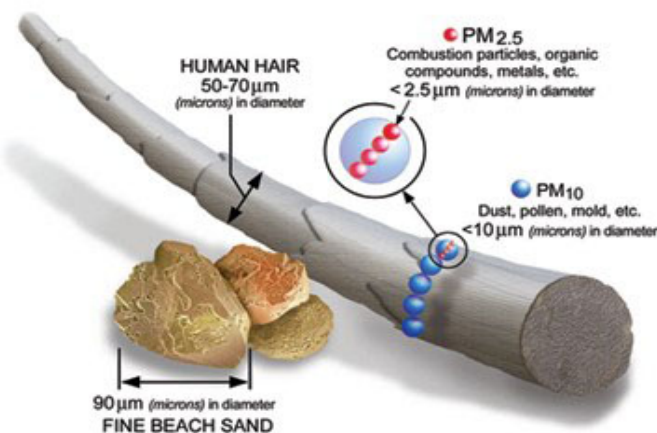
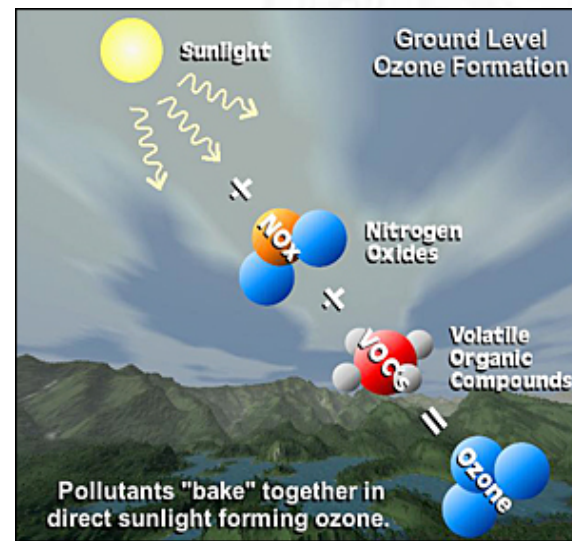


Non-Governmental  
Organizations

# Why Are Voluntary Programs Needed?



- PM 2.5 Nonattainment
- SO2 Nonattainment
- SO2 Attainment with a Maint Plan
- CO Attainment with a Maint Plan
- O3-8 hr Nonattainment
- PM10 Non Attainment Area
- PM10 Attainment with a Maint Plan



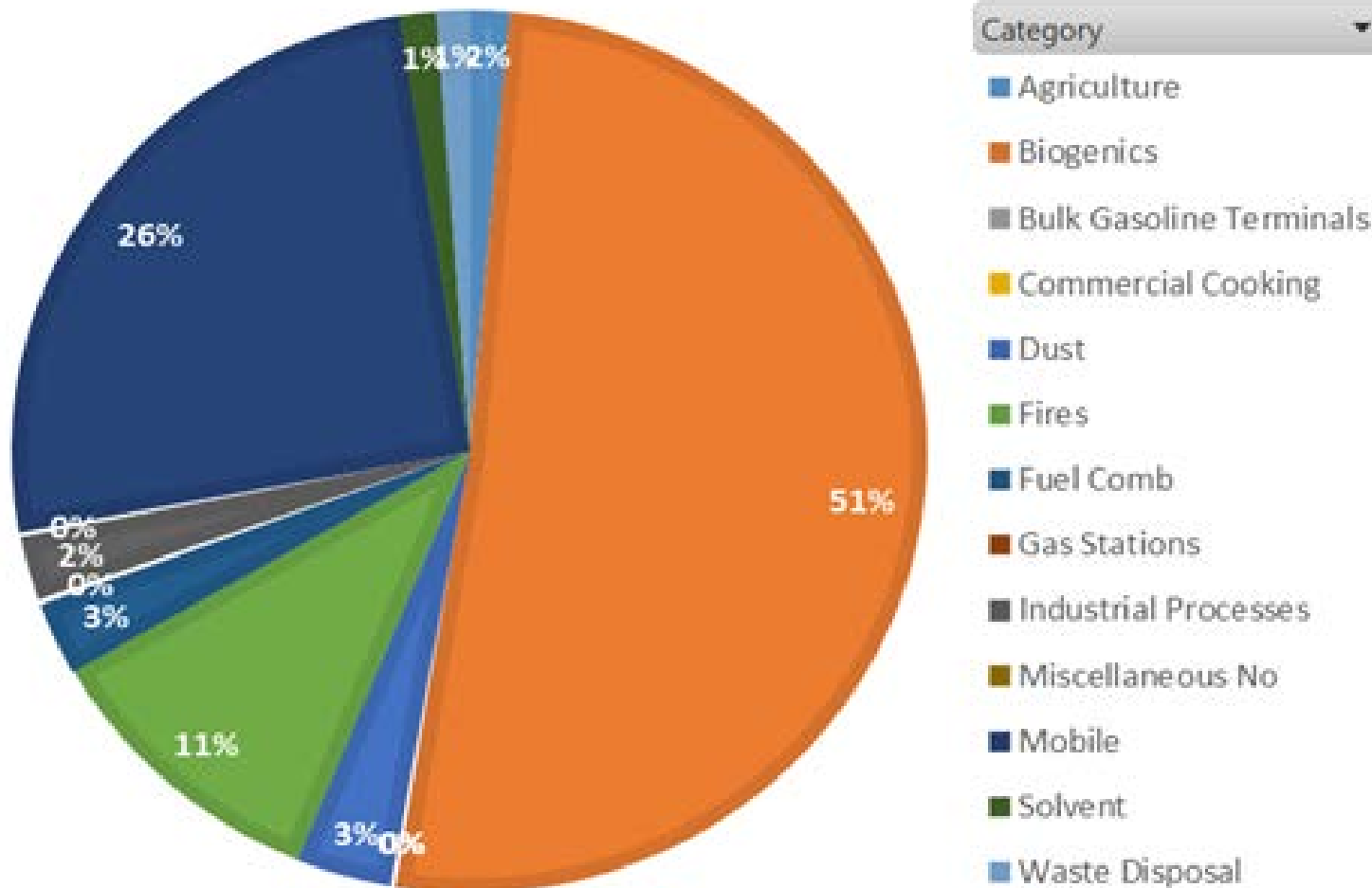


educate

## Air Pollution Reduction

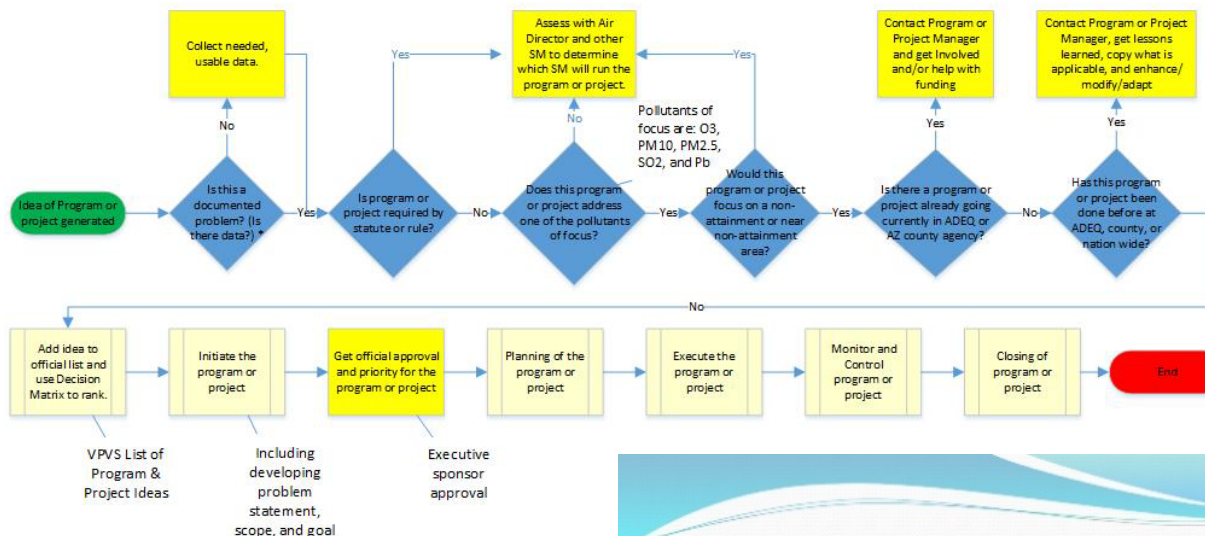


## Arizona National Emissions Inventory (NEI)



# Analyzing Voluntary Program & Project Ideas

Program or Project High Level Process for Voluntary Program Section



## Economic Analysis



## Effects of Air Pollution

### Human health



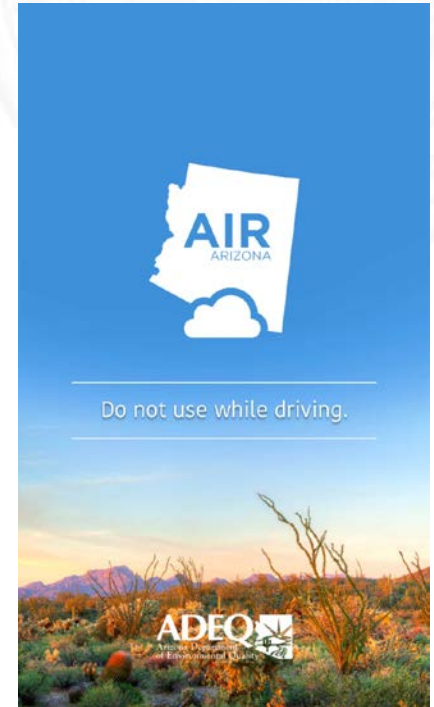
### Environmental



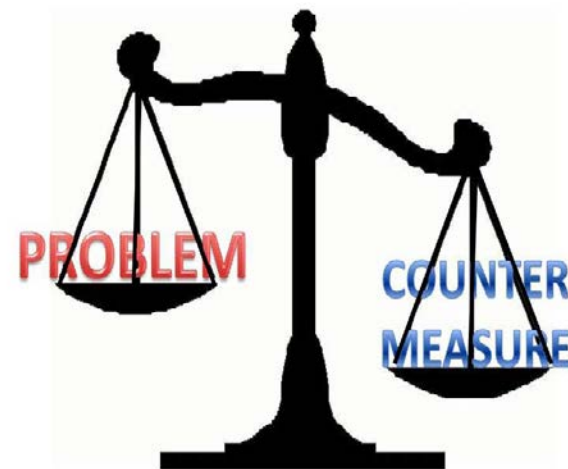
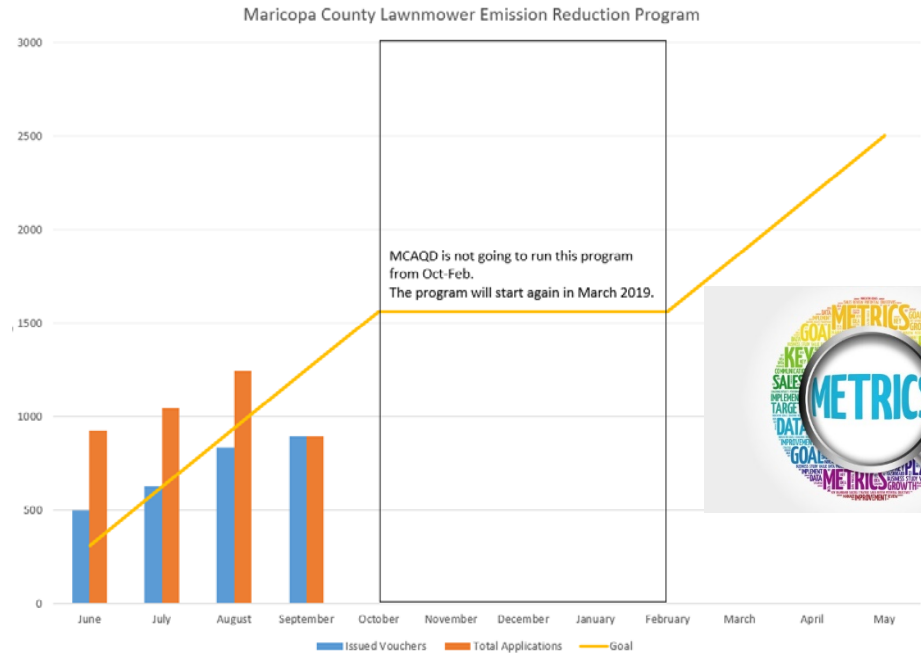


# Projects & Programs for Pollution Reduction

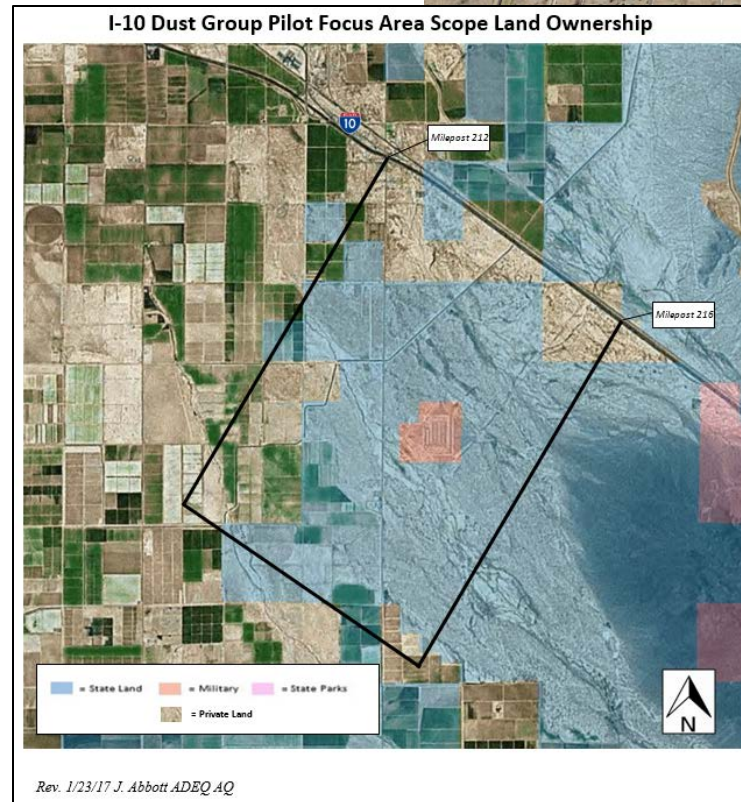
- I-10 Dust Mitigation/Stabilization
- Lawn & Garden – MCAQD & Pima
- DERA – School Bus Replacement Programs
- Air Quality Flag Program
- Idle Reduction Program
- Air Apps – Consolidation and Expansion
- ADEQ EV Chargers (Pilot)
- EV rebates
- Urban and Community Forestry Program



## Active management



- ADEQ Completed the MP214 and Smith Road Projects
- MP 214 Monthly sample collection
  - 10/18/17 – Installed
  - 11/20/17 – No accumulation
  - 12/18/17 – No accumulation
  - 1/30/18 – No accumulation



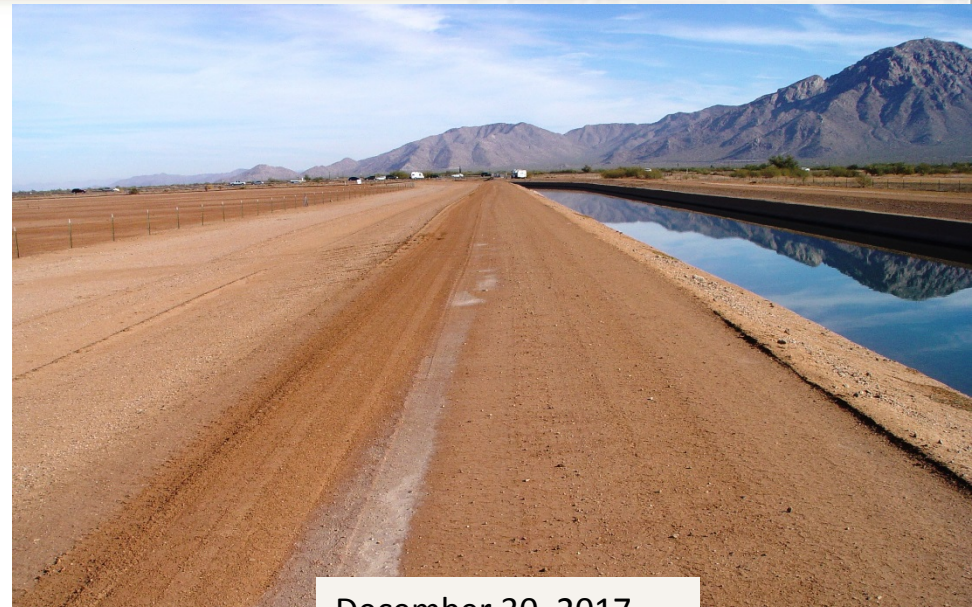
# MM 214 Pre-treatment



# MM 214 Post Treatment



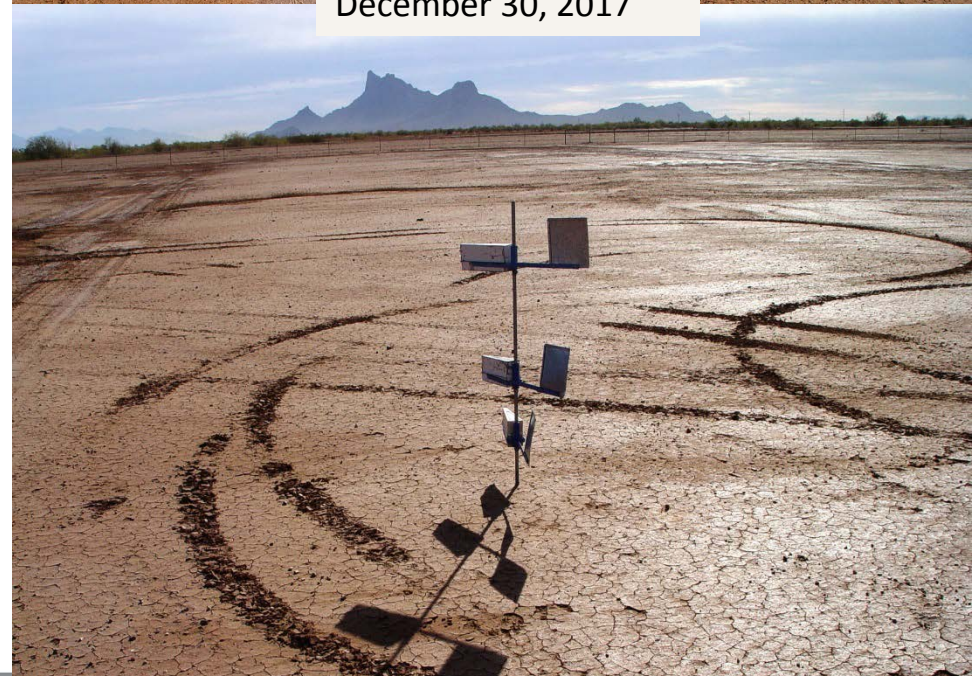
November 30, 2017



December 30, 2017



January 30, 2018



# MM 214 Post Treatment – Stable with vegetation



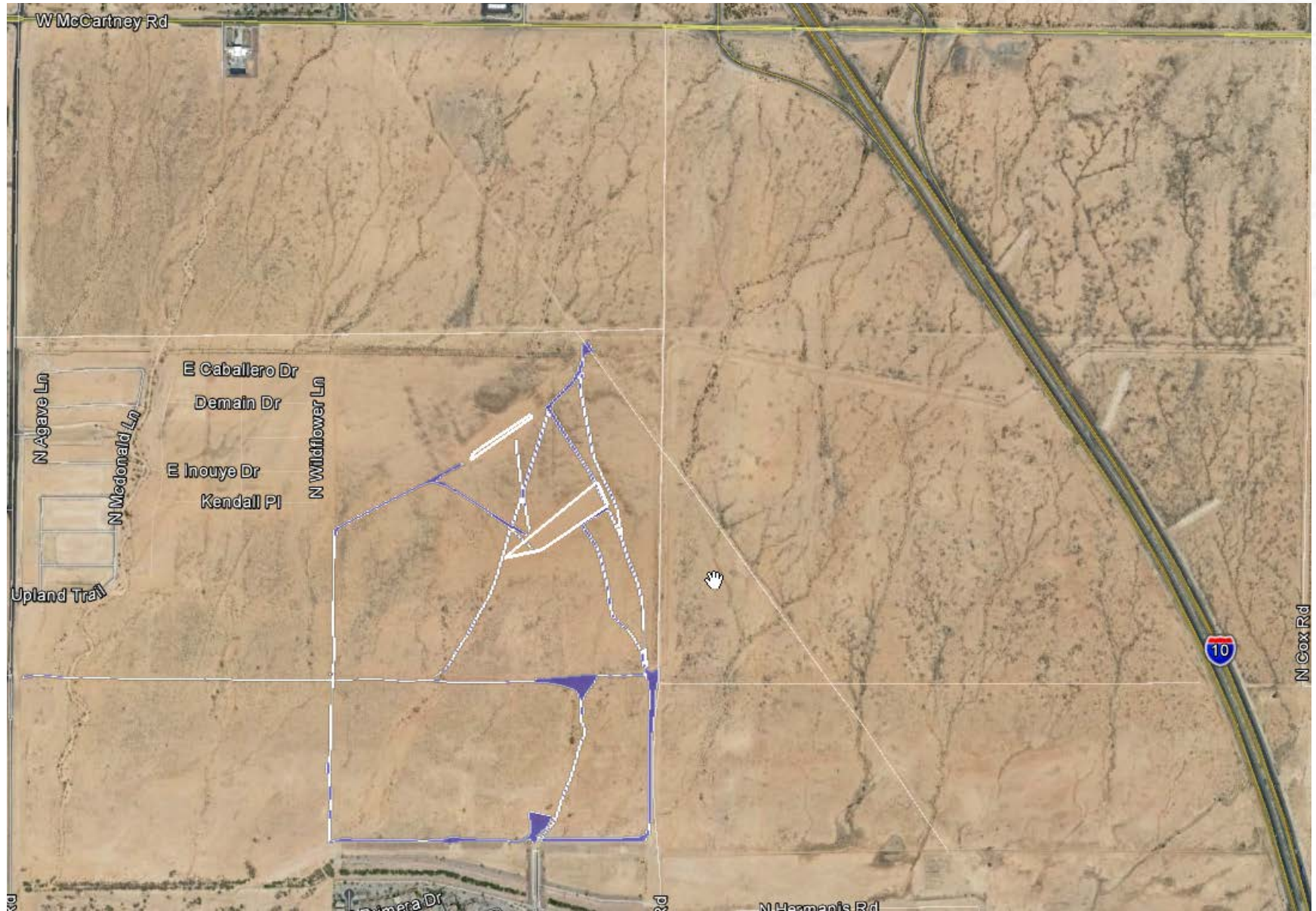
JUNE 5, 2018

Treated – annual  
vegetation cover

Untreated – Bare  
Loose soil



# Potential Projects – MP190 McCartney Rd



# Potential Projects – MP190 McCartney Rd





# Potential Projects – MP 220

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# Potential Projects – MP 220



- Determining areas of highest impact to highway
  - DPS incident reports on I-10
- Access Agreements
  - Public and Private
- Long Term Projects vs Short Term Stabilization
- Funding

# Questions?



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