I-10 Dust Group Update

2018 Arizona Dust Workshop

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What I Will Cover

- Brief History Summary
- 2017 Accomplishments
- I-10 Dust Group Process Moving Forward
- MM 214 Project Completed
- MM 214 Project Monitoring (Scott Dibiase, Pinal Co.)
## Participating Partners - I-10 Dust Group

### Group Member Agencies

<table>
<thead>
<tr>
<th>Agency</th>
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<tbody>
<tr>
<td>Arizona Department of Environmental Quality (ADEQ) – current lead</td>
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<tr>
<td>Arizona Department of Transportation (ADOT)</td>
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<td>AZ Department of Public Safety (DPS)</td>
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<td>National Weather Service (NWS) Phoenix &amp; Tucson</td>
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<td>Arizona Department of Agriculture (ADA)</td>
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<td>Pinal County Sherriff's Office</td>
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<td>USDA Natural Resource Conservation Service (USDA NRCS)</td>
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<td>Pinal County Air Quality</td>
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<tr>
<td>University of Arizona</td>
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<tr>
<td>National Oceanic and Atmospheric Administration (NOAA)</td>
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<tr>
<td>Gila River Indian Community (GRIC)</td>
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<tr>
<td>Tohono O’Odham Nation</td>
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<td>AZ State Lands Department</td>
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<td>New Mexico DOT <em>(added to email list Fall 2017)</em></td>
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Meeting Attendees

Oct-16: 10  
Nov-16: 13  
Jan-17: 18  
Mar-17: 14  
May-17: 15  
Jun-17: 15  
Aug-17: 16  
Oct-17: 15  

Attendees
Problem Being Solved:
Wind blown dust creates hazardous driving and health conditions along the I-10 corridor.
- Partners currently collecting data to confirm land activities and soil type in focus area.
- Identify root cause(s) of dust impacting I-10 in scope area. (January meeting)
- Identify solution projects to mitigate dust root cause(s) to be implemented. (February/March meeting)
  - Identify resource/funding needs and sources
  - Establish or determine existing private landowner/agency partnerships to assist in project implementation

= Items Completed in 2017
- ADEQ established a funding resource for mitigation projects
- Developed and began using the Dust Report Form
- Established I-10 Dust Group Process for Response and on the ground implementation of mitigation measures as appropriate
- Completed chemical dust stabilization pilot project at MM214
- Established monitoring pilot protocol for mitigation projects with chemical dust stabilization method used
### Dust Observation Form

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<tr>
<th>Observer Name</th>
<th>Agency</th>
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<th>Phone Number</th>
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**Observation Details:**

<table>
<thead>
<tr>
<th>Location</th>
<th>Land Description</th>
<th>Weather Conditions</th>
<th>Dust Description</th>
<th>Photo of Dust Observed</th>
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**Number of Dust Reports Received**

- May-17: 1
- Sep-17: 1
- Jan-18: 1
- Feb-18: 4

**Please email this form to I-10 Dust Group facilitators at ADEQ at jsp@azdeq.gov.**
1. Identify new project areas – USE DUST REPORT FORM

2. Implement process and collect more data on sources for localized dust events impacting I-10

3. Continue monitoring success of MM214 Project
MM 214 Project

Parcel #411-010-018F
Landowner: Louis Tsakiris
162.38 Acres

Canal Road
Treatment: 2 miles

56.24 Acre Project Treatment Area

Parcel #411-010-018F
Landowner: Louis Tsakiris
162.38 Acres
MM 214 Project

WHO: ADEQ Contract with Pinal County Dust Permit
Contractor: EarthCare Consultants

WHAT: Application of chemical dust stabilizer: Soil-Sement©

WHEN: September 15 – September 26, 2017

FUNDING: $108,138.96
MM 214 During Treatment
MILE POST 214
TREATMENT MONITORING

Scott DiBiase
Pinal County Air Quality Control
February 27, 2018
MP214
Pretreatment
Post application monitoring in coordination with U of A – Joey Blankenship & Jayson Fields

Goals:
- determine treatment longevity
- soil influx

BSNE (Big Spring Number Eight) passive saltation monitors

Gravimetric analysis after collection

6 Monitors deployed Fall 2017 (3 on treatment, 3 off treatment)
Results to Date

- Monthly sample collection
- 10/18/17 – Installed
- 11/20/17 – No accumulation
- 12/18/17 – No accumulation (water in samplers due to rain)
- 1/30/18 – No accumulation
QUESTIONS?