Community Workshop
Draft Particulate Matter Reduction Plan

May 1, 2019
South County Regional Center
AGENDA

- Workshop Introductions & Logistics
- APCD Discussion on 2018 Results
- Intro & Discussion on DPMRP & 2019 Mitigation Plantings
- Scientific Advisory Group (SAG) Technical Discussion
- CEQA Process and Annual Plan
- Oceano Community Monitoring Project

BREAK

- Question & Answer Period
QUESTIONS & ANSWERS

- Following the break will be a Question & Answer Panel.
- To ask a question, please submit **GREEN** question cards by the BREAK. You can place your card in the basket at the APCD Booth or you can hand it to an APCD Staff person.
- Questions will be organized and collated during the break and will then be addressed during the Question and Answer period.
- Additional questions can be addressed during the Q&A period if you hold up your question card or hand it to a staff person.
BREAK – 30 MINUTES

- Following the presentations, there will be a 30 minute break.
- APCD, State Parks and the Scientific Advisory Group will have booths where you can go and speak to representatives and ask specific questions.
COMMENTS ON THE PLAN

- APCD will be accepting comments on the PINK comment cards.
- These comments will not be read during the public workshop, however they will be scanned and posted to the SLOCleanAir.org website following this workshop.
- You may also submit comments until May 15, 2019 by emailing them to info@slocleanair.org
Dune Preserve
riding prohibited (orange)

ODSVRA
3,600 acres total (yellow)

Riding Area
1,500 acres (green dashes)

Oso Flaco Area
riding prohibited
2017: ~22 Acres of Mitigation

97 Exceedances at CDF

2018: ~112 Acres of Mitigation

47 Exceedances at CDF

State PM10 Standard: 24-hour average of 50 μg/m³
Days Exceeding State Standard Each Year

Wind or Mitigation?

No significant mitigation efforts

- 15 acres fencing
- 30 acres bales
- 40 acres fencing
- 6 acres reveg
- 40 acres fencing
- 6 acres reveg
- 22 acres
- 112 acres projects
General area of 2018 mitigations

- CDF
- Mesa2
- Oso Flaco

- Directly downwind of mitigations
- Partially downwind
- Not downwind
METEOROLOGY OR MITIGATION?

Oso Flaco vs CDF:
- Same meteorology, but only CDF is impacted by mitigations.
- Annual Trends in meteorology should have the same effect on CDF and Oso Flaco.
- Change in mitigations (i.e. going from ~20 to >100 acres) should affect CDF PM10, but not Oso Flaco PM10.

<table>
<thead>
<tr>
<th>Year</th>
<th>Event Day CDF/Oso Flaco PM10 ratio</th>
<th>Mitigations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td></td>
<td>~40 acres</td>
</tr>
<tr>
<td>2017</td>
<td></td>
<td>~20 acres</td>
</tr>
<tr>
<td>2018</td>
<td></td>
<td>&gt; 100 acres</td>
</tr>
</tbody>
</table>
QUANTITATIVELY...

- 2016 vs 2017: no significant difference
  - (40 vs 22 acres of mitigations)

- 2017 vs 2018: **statistically significant** 22% decrease in CDF PM10
  - (22 vs 112 acres of mitigations)

- For full details, see “SLO County APCD’s Preliminary Review Letter” of Park’s Draft PMRP, dated February 25, 2019.
  https://www.slocleanair.org/air-quality/oceano-dunes-efforts.php
CRYSTALLINE SILICA

- **ODSVRA beach sand is ~50% quartz, quartz is crystalline silica**
  - Respirable crystalline silica is known to cause lung cancer, silicosis, COPD, kidney disease

- **OSHA regulates respirable crystalline silica as a workplace hazard**
  - OSHA Standard: 8-hr average of 50 μg/m³
  - APCD does not enforce OSHA standards, and there is no standard for ambient silica

- **APCD collected 8 samples for silica analysis in 2017 & 2018**
  - All from CDF during windblown dust events when PM10 exceeded state standard.
  - None exceeded OSHA silica standard.
    - Silica detected in 6 of 8 samples; highest values was 20 μg/m³

- **Questions about sampling methodology**
  - See 2017 Annual Air Quality Report (Appendix B) for details
    - [https://www.slocleanair.org/library/air-quality-reports.php](https://www.slocleanair.org/library/air-quality-reports.php)

- **2019: Additional sampling with improved method**
  - 4 samples so far: none exceeded OSHA standard (24-hr samples)
Introduction & Discussion of DPMRP & 2019 Mitigation Plantings
Scientific Advisory Group
Technical Discussion
Presentation of CEQA Process & Annual Plan
OCEANO COMMUNITY MONITORING PROJECT

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WHY IS THE APCD PLACING AIR MONITORS IN THE OCEANO COMMUNITY?

► In March of 2018, a resident of Oceano nominated their community to the Community Air Protection Program.
  ► CARB established the CAP Program to focus on reducing exposure in low-income and disadvantaged communities
  ► A lack of ambient air quality monitoring was identified in the nomination
  ► To address this concern, the APCD is allocating CAP funding to purchase, install, and manage sensors to measure particulate matter concentrations in Oceano
WHERE ARE THE MONITORS LOCATED?

The APCD has deployed 5 monitors in Oceano at 3 locations:

- The OCSD is hosting an AirVisual, BAM 1020, and BX-895. One AirVisual is on 22nd Street and another is off of Christmas Tree Place.
WHAT TYPE OF MONITORS WERE DEPLOYED?

- AirVisual
- BX-895
- BAM 1020

Cost vs. Accuracy diagram
HOW CAN I ACCESS THE OCEANO MONITORING DATA?

Copy this link into your Browser: slocleanair.org/air-quality/oceano-dunes-efforts/oceano-monitoring.php
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WHERE ARE THE BAM MONITORS LOCATED?
HOW DOES THE OCEANO BAM MONITOR COMPARE TO THE BAM MONITOR AT MESA 2 AND CDF?

Date – April 9th through April 15, 2019

PM10 - Micrograms/Cubic Meter

- CDF BAM 1020
- Mesa 2 BAM 1020
- Oceano CSD BAM 1020

Date – April 9th through April 15, 2019
WHERE CAN I GET MORE INFORMATION?

- More information is displayed on our website:
  - [slocleanair.org/air-quality/oceano-dunes-efforts/oceano-monitoring.php](http://slocleanair.org/air-quality/oceano-dunes-efforts/oceano-monitoring.php)

- Come by our booth at the break!
BREAK
(30 Minutes)

Please submit all GREEN Question Cards to the APCD Booth now so that questions may be organized for the Q&A Panel following the break.
GREEN Question Cards have been organized to group similar questions together to avoid redundancy.

The questions will be read off of the cards and the appropriate panel member will answer the question.

We will get to as many questions as we can – however not all may be answered.

APCD will develop a Frequently Asked Questions paper following the workshop to address common questions and post to SLOCleanAir.org.

If you have additional questions, you can email us at info@slocleanair.org.
THANK YOU FOR ATTENDING

Next Steps

- APCD will work with State Parks and the Scientific Advisory Group to complete the final Particulate Matter Reduction Plan.
- A follow-up workshop will be announced in the Fall.