



Monterey Bay Air Resources District
BOARD OF DIRECTORS MEETING

STEVE MCSHANE, CHAIR

WEDNESDAY, OCTOBER 20, 2021 - 1:30 P.M.

REMOTE MEETING ONLY VIA ZOOM

Link to meeting: <https://us02web.zoom.us/j/86923520644>

Webinar ID: 869 2352 0644

By phone, audio only (webinar ID required): 1-669-900-6833

On September 16, 2021, Governor Newsom signed AB 361. This legislation amends the Brown Act to allow meeting bodies subject to the Brown Act to meet via teleconference during a proclaimed state of emergency in accordance with teleconference procedures established by AB 361 rather than under the Brown Act's more narrow standard rules for participation in a meeting by teleconference. The Monterey County Health Officer has issued a recommendation for social distancing in legislative body meetings, so the first meeting after September 30, 2021, may be held without making findings. If the Board of Directors desires to continue to meet remotely via teleconference after that first meeting, the Board is required to make certain findings under AB 361 no later than 30 days after the first teleconference meeting held pursuant to AB 361, and every 30 days thereafter. Members of the public that wish to participate in a meeting may do so by joining the Zoom Webinar ID. Should you have any questions, please contact Sirie Thongchua, Executive Assistant, at 831-718-8028 or by email at sirie@mbard.org.

To Provide Public Comment via Zoom teleconference/video conference: During the meeting live verbal public comments may be made by members of the public joining the meeting via Zoom. Zoom access information is provided above. Use the "raise hand" feature (for those joining by phone, press *9 to "raise hand") during the public comment period for the agenda item you wish to address. Members of the public participating via Zoom will be muted during the proceedings and may be unmuted to speak during public comment after requesting and receiving recognition by the Chair. Please clearly state your full name for the record at the start of your public comment.

Before the Meeting: Persons who wish to address the Board for public comment of an item not on the agenda are encouraged to submit comments in writing to Sirie Thongchua, Executive Assistant, at sirie@mbard.org by 5:00 p.m. on Monday, October 18, 2021. Comments received will be distributed to the Board prior to the meeting.

Summary of Actions

1. CALL TO ORDER – **The meeting was called to order by Chair McShane at 1:30 p.m.**
2. PLEDGE OF ALLEGIANCE
3. ROLL CALL - **Present:** Chris Lopez, Jack Dilles, Kollin Kosmicki, Mary Ann Carbone, Mike LeBarre, Sam Storey, Wendy Root Askew, Steve McShane, Zach Friend, John Phillips.
Arrived late: Ryan Coonerty.
4. PUBLIC COMMENT – **None.**
5. **RESOLUTION NO. 21-016: Adopted** a Resolution pursuant to AB 361 to find that as a result of the continuing COVID-19 pandemic state of emergency declared by Governor Newsom, holding Board of Directors' meetings in person would present imminent risks to the health or safety of attendees.
Motion: *Adopt the Resolution. Action: Approve. Moved by Zach Friend, Seconded by Wendy Root Askew.*
Vote: *Motion carried by roll call vote (summary: Yes = 9, No = 1, Abstain = 0).*
Yes: *Chris Lopez, Jack Dilles, John Phillips, Kollin Kosmicki, Mary Ann Carbone, Sam Storey, Steve McShane, Wendy Root Askew, Zach Friend.*
No: *Mike LeBarre.*
Absent: *Ryan Coonerty*
6. REPORTS BY COMMITTEE CHAIRS ON COMMITTEE MEETINGS
 - a. Budget, Personnel, and Nominating Committee
 - b. Advisory Committee (No meeting)
7. COMMENTS AND REFERRALS FROM CHAIR AND BOARD MEMBERS
8. REPORT FROM AIR POLLUTION CONTROL OFFICER

Richard Stedman, APCO, reported on the following:

Advisory Committee

- The Advisory Committee did not meet this month.
- New Member
- AB 361

District Business

Engineering

- On October 6, Inspector Shawn Boyle did a presentation at the CAPCOA Enforcement Managers meeting about the asbestos NESHAP and introduced a discussion on naturally occurring asbestos.
- Three of our inspectors attended training the week of October 11 in Ventura. The training included how to use an analyzer called a TVA 2020. This analyzer can detect methane and is useful to detect fugitive emissions at oil and gas facilities or landfills. The consent agenda includes a budget adjustment to purchase this analyzer for use in our air district.
- On October 18 and 19, our engineer Seong Kim conducted training on a software tool called Hotspots Analysis and Reporting Program (HARP) for other air district staff. HARP is used by air districts for emission inventories and estimating health risk.
- We conducted interviews for the open Engineer position on October 18 and will be moving candidates forward for a second interview.
- The Governor signed Assembly Bill 1346 prohibiting the production of new gasoline-powered small off-road engines by the later of January 1, 2024 or as soon as the California Air Resources Board (CARB) deems feasible. These engines are typically used in lawn and garden equipment such as lawnmowers or leaf blowers. The bill also calls upon CARB to identify incentive funding to support the transition to zero-emission equipment.
- Marina Odor Complaints – We have not received any complaints regarding odors in the area.

Planning and Air Monitoring

- The E-Bike Incentive program is now open. Two applications have been received so far. From the calls that we're receiving, there seems to be a lot of interest.
- The 2021-22 Woodstove Change Out Program launched on September 28. \$87,500 in local funds has been budgeted for this year's program.
- The Monterey Bay Electric Vehicle Incentive Program, which provides residents with an incentive to purchase new and used all-electric or plug-in electric vehicles is continuing with 57 applications received, \$73,300 obligated, and \$376,700 remaining.
- The San Lorenzo Valley seasonal air monitoring network, which measures elevated wintertime concentrations of wood smoke from fireplaces and wood stoves, was installed earlier this month.
- The San Lorenzo Valley Spare-the-Air Program will start in November. The STA Program notifies residents of deteriorating meteorological conditions in the SLV which could concentrate wood smoke. During a Spare the Air Alert, residents are asked to voluntarily choose devices that use fuels other than wood to heat their homes. The program will run through Spring when conditions for smoke dispersion improve.

- The Bonny Doon Elementary School just received an all-electric bus through the District's Zero Emission School Bus Program. This project was funded with Central Coast Community Energy funds and the District's AB 923 fund.

Outreach

- The District sponsored an Electric Vehicle Ride and Drive event at the Salinas Railroad Depot on Saturday October 3. The event, organized by Ecology Action through a grant from Electrify America, provided a platform to advance electrified mobility and sustainable transportation. There were many attractions at the event including electric cars, motorcycles, and bikes on display, activities for kids where they could receive a free bike helmet, a drawing to win an electric bike, and electric cars to test drive. District staff participated by setting up an informational booth and promoting both the Electric Vehicle and the E-Bike Incentive Programs.

Lastly

- Central Coast Community Energy (CCCE) is asking Member Agencies to identify roughly 1500 square feet or more of accessible space in which to locate a 1 MW to 5 MW Battery Energy Storage Systems (BESS) as part of CCCE's deployment of 100 Megawatt (MW) of distributed BESS spread throughout our service area. These front of the meter (FOM) distributed BESS resources enhance grid reliability by addressing the intermittency of renewable resources.
- How to Participate by November 15, 2021, please provide CCCE (at jkilligrew@3ce.org) with a list of potential site locations identified by street address, electric meter number, or maps with parcel number information. While all submitted sites will be evaluated, the ideal site is 1) close to critical facilities, 2) near the existing distribution system, and 3) periodically accessible for routine operational needs.

CONSENT AGENDA

Motion: Approve items on the Consent Agenda. **Action:** Approve. **Moved by** Sam Storey, **Seconded by** Kollin Kosmicki.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 11).

Yes: Chris Lopez, Jack Dilles, John Phillips, Kollin Kosmicki, Mary Ann Carbone, Mike LeBarre, Ryan Coonerty, Sam Storey, Wendy Root Askew, Zach Friend, Steve McShane.

9. **Accepted and Filed** Summary of Actions for the September 15, 2021, Board of Directors Meeting

10. **Received and Filed** Budget to Actual Report for the Three Months Ended September 30, 2021

11. **Accepted and Filed** Report of Summary of Mutual Settlement Program Actions for September 2021


12. **Approved** Director Storey's Recommended Appointment to the Advisory Committee
13. **Authorized** the Air Pollution Control Officer to Execute a Lease with the City of Watsonville for Office Space at Watsonville Civic Center Effective November 1, 2021
14. **Approved** the Air Pollution Control Officer to Accept Fiscal Year 21 Exchange Network Grant Agreement from the United States Environmental Protection Agency and Accept \$97,473 in Funding
15. **Approved** an Extension Request from the San Benito High School District for the AB2766 Grant 20-06 All-Electric Shuttle Bus Project
16. **RESOLUTION NO. 21-017: Adopted** a Resolution Authorizing the Air Pollution Control Officer to Enter into a Two-Year Agreement with Firato Service Co., Inc. for Janitorial Services effective November 1, 2021
17. **RESOLUTION NO. 21-018: Adopted** a Resolution Authorizing the Air Pollution Control Officer Accept Funding and Administer the Carl Moyer Program Year 24
18. **RESOLUTION NO. 21-019: Adopted** a Resolution Approving Fiscal Year 2021-22 Budget Revisions Per Attached Schedule A

REGULAR AGENDA

19. **Received** a Presentation from Guy Petraborg, Director of Engineering & Compliance, Monterey Regional Waste Management District
20. **Received** a Demonstration of the Accela Permit and Compliance Database
21. **Approved** Non-Discrimination Policy, Complaint Procedure, and Accessibility Policy
Motion: Approve the policies. **Action:** Approve. **Moved by** Mike LeBarre, **Seconded by** Jack Dilles.
Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 11).
Yes: Chris Lopez, Jack Dilles, John Phillips, Kollin Kosmicki, Mary Ann Carbone, Mike LeBarre, Sam Storey, Steve McShane, Wendy Root Askew, Zach Friend, Ryan Coonerty.
22. Adjournment – **The meeting adjourned at 2:35 p.m.**

Sirie Thongchua
Executive Assistant

Monterey Regional Waste Management District
Turning Waste Into Resources
Since 1951




HYDROGEN SULFIDE (H₂S) IN LANDFILL GAS (LFG) and SULFUR OXIDE (SO_x) EMISSIONS REDUCTION

MBARD BOARD Meeting
 October 20, 2021

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“WHAT”


➤ **Hydrogen Sulfide (H₂S)**

- Hydrogen sulfide (H₂S) is a colorless, flammable, highly toxic gas with a “rotten egg” smell. It is heavier than air and can collect in low-lying or poorly ventilated areas. It is lethal at low concentrations (immediate at 500ppm; >10 minutes at 50ppm). Found in natural gas, “swamp gas”, “sewer gas”, drain pipe gas, and landfill gas (LFG)

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PRESENTATION OUTLINE

- Introduce Monterey Regional Waste Management District (MRWMD)
- Causes of Hydrogen Sulfide (H₂S) in landfill gas (LFG)
- History of H₂S in LFG at the Monterey Peninsula Landfill
- History of H₂S treatment methods at Monterey Peninsula LF
- Summary of H₂S treatment and SO_x emissions reduction

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CONCENTRATION

A concentration of “1 part per million (ppm)” is 0.0001% that can be visualized as being similar to that of a single drop of water inside the volume of two (2) bath tubs



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MRWMD is a California Special District responsible for solid waste management for its 9 member agencies of Carmel, Del Rey Oaks, Marina, Monterey, Monterey County, Pacific Grove, Pebble Beach CSD, Sand City, and Seaside; serving the tri-county region with recycling, reuse, & non-hazardous municipal solid waste disposal services



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“HOW”


➤ **Causes of Hydrogen Sulfide (H₂S)**

- Hydrogen sulfide (H₂S) occurs naturally by the breakdown of organic matter (yard/food wastes, paper, cardboard) & human/animal waste (sewage). H₂S can be produced in landfills in two primary ways:
 - 1) from breakdown of organic materials; and
 - 2) from breakdown of gypsum-containing materials (wallboard/ sheetrock).
 The production of hydrogen sulfide can increase when materials are crushed, compacted or come in contact with rainwater – all of which commonly occur in landfills.

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“WHY is this important”

- **Hydrogen Sulfide (H₂S) & its combustion byproducts pollute**
- Hydrogen sulfide (H₂S) is destroyed by combustion but converts to Sulfur dioxide (SO₂), a colorless, bad-smelling, toxic gas, which is part of a larger group of chemicals known as sulfur oxides (SOx). SOx gases are emitted by the burning of fossil fuels containing sulfur (coal, oil, diesel) and during the regulatory required abatement of landfill gas (LFG) in enclosed flares, IC engine-generator sets, & other permitted abatement devices (minimum 98%-99% destruction efficiency abatement devices).
- SOx gases are not healthy; can harm trees and plants by damaging foliage and decreasing growth. SOx gases can contribute to acid rain which can harm watersheds and sensitive ecosystems.

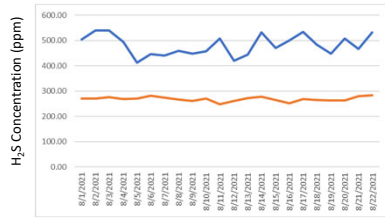
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Temporary Treatment System – H₂S Reduction Performance



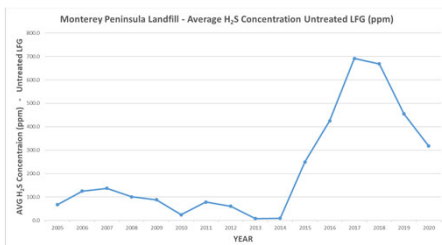
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History of H₂S in LFG at MPL



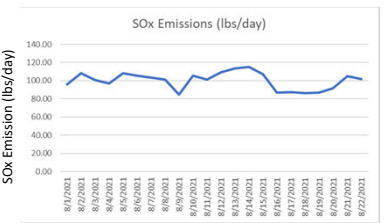
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Temporary Treatment System – SOx Emission Performance



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Temporary Treatment System 2018 – August 2021
 Two pairs of two units operated “in series”
 Each pair on a separate ‘half’ of the landfill’s GCCS; treats a portion of the LFG



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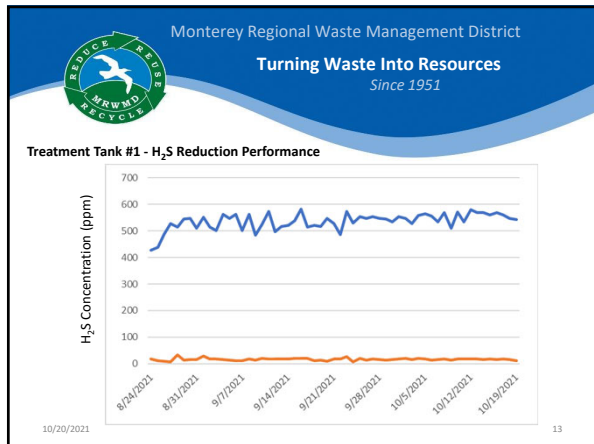


Permanent Treatment System – August 2021 start
 Two units operated “in parallel” with two units in “standby” mode
 Each unit treats ‘half’ of the LFG



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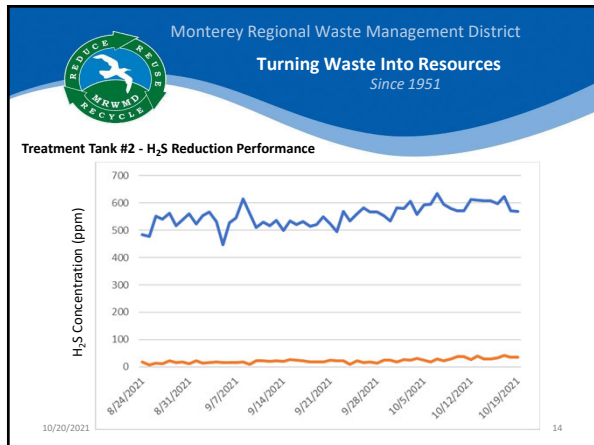
Acknowledgements

Monterey Bay Air Resources District

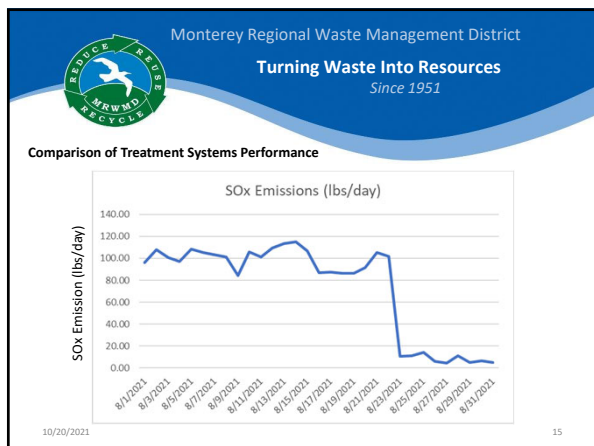
- EV CHARGING EQUIPMENT DONATION:
 - MBARD Monterey, CA
 - Richard Stedman, Executive Officer

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Demonstration of Accela Permit and Compliance Database

AMY CLYMO
ENGINEERING AND COMPLIANCE MANAGER
OCTOBER 20, 2021



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Database Needs

- Out of box solution
 - Small agency (30 employees)
 - No IT department (contracted IT services)
 - Capable of administration by agency staff
- Support routine permitting and compliance activities
 - Applications, inspections, violations, public complaints
- Online portal for application submission
- Monthly permit renewal billing process
- Cloud hosted

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Outline

- Background
- Database Needs
- Solution

2

Solution

- Accela Civic Platform - Environmental Health Module
- Cloud-hosted with ability for online customer interactions, permitting, inspections, and mobile device field inspections
- Similar basic processes - permitting and enforcement
- Leverage existing content and customize to air pollution
- Cloud-hosted, online customer resources, mobile inspection app

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Background (legacy database)

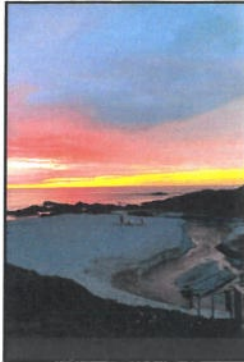
- Limited functionality
- Unable to accept online applications
- On-premise server
- Duplicative accounting database

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DATABASE DEMO

ID	Name	Date	Status	Location	Action
PERM-00001	Permit Application	10/15/2021	Pending	123 Main St	View
PERM-00002	Permit Application	10/16/2021	Approved	456 Oak St	View
PERM-00003	Permit Application	10/17/2021	Rejected	789 Pine St	View
PERM-00004	Permit Application	10/18/2021	Pending	101 Elm St	View
PERM-00005	Permit Application	10/19/2021	Approved	202 Maple St	View
PERM-00006	Permit Application	10/20/2021	Pending	303 Birch St	View
PERM-00007	Permit Application	10/21/2021	Approved	404 Cedar St	View
PERM-00008	Permit Application	10/22/2021	Rejected	505 Birch St	View
PERM-00009	Permit Application	10/23/2021	Pending	606 Birch St	View
PERM-00010	Permit Application	10/24/2021	Approved	707 Birch St	View

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Conclusions

- Go live July 19, 2021
- Improved efficiency
- Improved customer service options
- Agency staff administration

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Questions?



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Non-Discrimination Policies

AMY CLYMO
ENGINEERING AND COMPLIANCE MANAGER
OCTOBER 20, 2021



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40 C.F.R. Parts 5 and 7

- Part 5 - Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance
- Part 7 - Nondiscrimination in Programs or Activities Receiving Federal Assistance from the Environmental Protection Agency



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Outline

- Federal Requirements
- Review Policies



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MBARD Existing Policies

- Admin - Policies and Procedures - Policy C.4.c
- Accessibility - see Board agendas
- Website
 - Google translate option
 - Host Streamline - built in accessibility
- Translation - Spanish
 - Press releases
 - Radio and TV advertisements
 - AQI video
 - Staff support

This meeting is open to the public. The Monterey Bay Air Resources District does not discriminate against individuals with disabilities. For request for reasonable accommodations please contact the District and email accommodations@mbard.org or phone call (831) 474-6444 or contact ambard@mbard.org



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Federal Requirements

- US EPA's implementing non-discrimination regulations in 40 C.F.R. Parts 5 and 7 address the following federal non-discrimination laws:
 - Title VI of the Civil Rights Act of 1964,
 - Section 504 of the Rehabilitation Act of 1973,
 - Age Discrimination Act of 1975,
 - Section 13 of Federal Water Pollution Control Act of 1972,
 - Title IX of the Education Amendments of 1972.



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Non-Discrimination Policy

- Fair and equal access to benefits of programs and activities MBARD's administers
- Complaint procedure
- Complaint form available in English and Spanish



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New Policies


- Non-Discrimination Policy and Complaint Procedure
- Accessibility Policies



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Accessibility Policies


- Disability Accommodations
- Website Accessibility
- Language Assistance



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Notice of Nondiscrimination

The Monterey Bay Air Resources District (MBARD) does not discriminate on the basis of race, national origin, ethnic group identification, ancestry, religion, age, sex, sexual orientation, gender identity, gender expression, color, genetic information, medical condition, or mental or physical disability, or any other attribute or belief protected by law.



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Questions?



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