



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

BOARD OF DIRECTORS
REGULAR MEETING
MARCH 1, 2017

A meeting of the Bay Area Air Quality Management District Board of Directors will be held at 9:45 a.m. in the 1st Floor Board Room at the Air District Headquarters, 375 Beale Street, San Francisco, California 94105.

**Questions About
an Agenda Item**

The name, telephone number and e-mail of the appropriate staff Person to contact for additional information or to resolve concerns is listed for each agenda item.

Meeting Procedures

The public meeting of the Air District Board of Directors begins at 9:45 a.m. The Board of Directors generally will consider items in the order listed on the agenda. However, any item may be considered in any order.

After action on any agenda item not requiring a public hearing, the Board may reconsider or amend the item at any time during the meeting.

This meeting will be webcast. To see the webcast, please visit <http://www.baaqmd.gov/about-the-air-district/board-of-directors/resolutionsagendasminutes> at the time of the meeting.

Public Comment Procedures

Persons wishing to make public comment must fill out a Public Comment Card indicating their name and the number of the agenda item on which they wish to speak, or that they intend to address the Board on matters not on the Agenda for the meeting.

Public Comment on Non-Agenda Matters, Pursuant to Government Code Section 54954.3 For the first round of public comment on non-agenda matters at the beginning of the agenda, ten persons selected by a drawing by the Clerk of the Boards from among the Public Comment Cards indicating they wish to speak on matters not on the agenda for the meeting will have three minutes each to address the Board on matters not on the agenda. For this first round of public comments on non-agenda matters, all Public Comment Cards must be submitted in person to the Clerk of the Boards at the location of the meeting and prior to commencement of the meeting. The remainder of the speakers wishing to address the Board on non-agenda matters will be heard at the end of the agenda, and each will be allowed three minutes to address the Board at that time.

Members of the Board may engage only in very brief dialogue regarding non-agenda matters, and may refer issues raised to District staff for handling. In addition, the Chairperson may refer issues raised to appropriate Board Committees to be placed on a future agenda for discussion.

Public Comment on Agenda Items After the initial public comment on non-agenda matters, the public may comment on each item on the agenda as the item is taken up. Public Comment Cards for items on the agenda must be submitted in person to the Clerk of the Boards at the location of the meeting and prior to the Board taking up the particular item. Where an item was moved from the Consent Calendar to an Action item, no speaker who has already spoken on that item will be entitled to speak to that item again.

Up to ten (10) speakers may speak for three minutes on each item on the Agenda. If there are more than ten persons interested in speaking on an item on the agenda, the Chairperson or other Board Member presiding at the meeting may limit the public comment for all speakers to fewer than three minutes per speaker, or make other rules to ensure that all speakers have an equal opportunity to be heard. Speakers are permitted to yield their time to one other speaker; however no one speaker shall have more than six minutes. The Chairperson or other Board Member presiding at the meeting may, with the consent of persons representing both sides of an issue, allocate a block of time (not to exceed six minutes) to each side to present their issue.

BOARD OF DIRECTORS REGULAR MEETING AGENDA

WEDNESDAY
MARCH 1, 2017
9:45 A.M.

BOARD ROOM
1ST FLOOR

CALL TO ORDER

Chairperson, Liz Kniss

1. **Opening Comments**
Roll Call
Pledge of Allegiance

The Chair shall call the meeting to order and make opening comments. The Clerk of the Boards shall take roll of the Board members. The Chair shall lead the Pledge of Allegiance.

PUBLIC COMMENT ON NON-AGENDA MATTERS

2. **Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3**

For the first round of public comment on non-agenda matters at the beginning of the agenda, ten persons selected by a drawing by the Clerk of the Boards from among the Public Comment Cards indicating they wish to speak on matters not on the agenda for the meeting will have three minutes each to address the Board on matters not on the agenda. For this first round of public comments on non-agenda matters, all Public Comment Cards must be submitted in person to the Clerk of the Board at the location of the meeting and prior to commencement of the meeting.

COMMENDATIONS/PROCLAMATIONS/AWARDS

3. *The Board of Directors will recognize outgoing Director Jan Pepper for her service, leadership, and dedication to protecting air quality in the Bay Area.*

CONSENT CALENDAR (ITEMS 4 – 9)

Staff/Phone (415) 749-

4. Minutes of the Regular Board of Directors Meeting of February 1, 2017

Clerk of the Boards/5073

The Board of Directors will consider approving the draft minutes of the Regular Board of Directors Meeting February 1, 2017.

5. Board Communications Received from February 1, 2017 through February 28, 2017

J. Broadbent/5052

jbroadbent@baaqmd.gov

A copy of communications directed to the Board of Directors received by the Air District from February 1, 2017 through February 28, 2017, if any, will be at each Board Member's place.

6. Air District Personnel on Out-of-State Business Travel J. Broadbent/5052
jbroadbent@baaqmd.gov

In accordance with Section 5.4 (b) of the Air District's Administrative Code, Fiscal Policies and Procedures Section, the Board is hereby notified that the attached memorandum lists Air District personnel who have traveled on out-of-state business in the preceding month.

7. Notices of Violations Issued and Settlements in Excess of \$10,000 in the month of January 2017 J. Broadbent/5052
jbroadbent@baaqmd.gov

In accordance with Resolution No. 2012-08, the Board of Directors will receive a list of all Notices of Violations issued, and all settlements for amounts in excess of \$10,000 during the month of January 2017.

8. Quarterly Report of the Executive Office and Division Activities for the Months of October 2016 – December 2016 J. Broadbent/5052
jbroadbent@baaqmd.gov

A summary of Board of Directors, Hearing Board and Advisory Council meeting activities for the fourth quarter is provided for information only. Also included is a summary of the Executive Office and Division Activities for the months of October 2016 – December 2016.

9. Consider Authorization to Execute Contract Amendments for My Air Online Development Services in Amounts in Excess of \$100,000 J. Broadbent/5052
jbroadbent@baaqmd.gov

The Board of Directors will consider authorizing the Executive Officer/APCO to execute contract amendments to extend four (4) contracts for the development of the permitting and compliance systems in an amount not to exceed \$923,074.

COMMITTEE REPORTS

10. Report of the **Advisory Council** Meeting of February 6, 2017 J. Broadbent/5052
jbroadbent@baaqmd.gov
BOARD LIAISON: R. Sinks

The Council will receive the following reports:

A) Advisory Council Deliberation on the Key Question

1) None; receive and file.

B) Presentation on Regulation 13, Rule 1: Refinery Carbon Intensity Cap

1) None; receive and file.

C) **Advisory Council Deliberation on the Draft 2017 Clean Air Plan/Regional Climate Protection Strategy**

1) None; receive and file.

11. Report of the **Budget and Finance Committee** Meeting of February 22, 2017

CHAIR: C. Groom

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Committee received the following reports:

A) **Discussion of Projects and Funding Priorities Relevant to the Fiscal Year Ending (FYE) 2018 Budget**

1) None; receive and file.

12. Report of the **Executive Committee** Meeting of February 22, 2017

CHAIR: L. Kniss

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Committee received the following reports:

A) **Hearing Board Quarterly Report: July – September 2016 and October – December 2016**

1) None; receive and file.

B) **Bay Area Regional Collaborative (BARC) Update**

1) None; receive and file.

C) **Technology Implementation Office (TIO) Update**

1) None; receive and file.

D) **Advisory Council Opinion on Greenhouse Gas (GHG) Caps at Bay Area Refineries**

1) None; receive and file.

13. Report of the **Mobile Source Committee** Meeting of February 23, 2017

CHAIR: K. Mitchoff

J. Broadbent/5052

jbroadbent@baaqmd.gov

The Committee received the following reports:

A) **Projects and Contracts with Grant Awards over \$100,000**

1) Approve Carl Moyer Program (CMP) projects with proposed grant awards over \$100,000 as shown in Attachment 1; and

- 2) *Authorize the Executive Officer/APCO to enter into all necessary agreements with applicants and partners for the recommended projects.*

B) Air District Grant Programs Overview

- 1) *None; receive and file.*

C) Participation in Year 19 of the Carl Moyer Program and Approval of the 2017 Caltrain Funding Plan

- 1) *Adopt a resolution authorizing the Executive Officer/APCO to execute all necessary agreements with the California Air Resources Board (ARB) relating to the Air District's receipt of Carl Moyer Program (CMP) funds for fiscal year 2016-2017 (Program Year 19);*
- 2) *Allocate \$3 million in Mobile Source Incentive Funding to provide the required match funding and additional monies for projects eligible for funding under the CMP guidelines; and*
- 3) *Approve the proposed 2017 funding plan for the Caltrain Electrification project.*

PRESENTATION

14. Draft 2017 Clean Air Plan: Spare the Air, Cool the Climate

J. Broadbent/5052
jbroadbent@baaqmd.gov

The Board of Directors will receive an overview of the Draft 2017 Clean Air Plan: Spare the Air, Cool the Climate.

CLOSED SESSION

15. **EXISTING LITIGATION (Government Code Section 54956.9(a))**

Pursuant to Government Code Section 54956.9(a), a need exists to meet in closed session with legal counsel to consider the following cases:

- A. **California Building Industry Association v. Bay Area AQMD**, Alameda County Superior Court, Case No. RG-10548693; California Court of Appeal, First Appellate District, Case No. A135335; California Supreme Court, Case No. S213478

16. **CONFERENCE WITH LEGAL COUNSEL**

ANTICIPATED LITIGATION (Government Code Section 54956.9 (d)(2))

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Section 54956.9: two potential cases.

OPEN SESSION

PUBLIC COMMENT ON NON-AGENDA MATTERS

17. Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3

Speakers who did not have the opportunity to address the Board in the first round of comments on non-agenda matters will be allowed three minutes each to address the Board on non-agenda matters.

BOARD MEMBERS' COMMENTS

18. *Any member of the Board, or its staff, on his or her own initiative or in response to questions posed by the public, may: ask a question for clarification, make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter or take action to direct staff to place a matter of business on a future agenda. (Gov't Code § 54954.2)*

OTHER BUSINESS

19. Report of the Executive Officer/APCO

20. Chairperson's Report

21. Time and Place of Next Meeting:

Wednesday, March 15, 2017, at 375 Beale Street, San Francisco, CA 94109 at 9:45 a.m.

22. Adjournment

The Board meeting shall be adjourned by the Board Chair.

CONTACT:

MANAGER, EXECUTIVE OPERATIONS
375 BEALE STREET, SAN FRANCISCO, CA 94105
mmartinez@baaqmd.gov

(415) 749-5016
FAX: (415) 928-8560
BAAQMD homepage:
www.baaqmd.gov

- To submit written comments on an agenda item in advance of the meeting. Please note that all correspondence must be addressed to the “Members of the Board of Directors” and received at least 24 hours prior, excluding weekends and holidays, in order to be presented at that Board meeting. Any correspondence received after that time will be presented to the Board at the following meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- Any writing relating to an open session item on this Agenda that is distributed to all, or a majority of all, members of the body to which this Agenda relates shall be made available at the District’s offices at 375 Beale Street, Suite 600, San Francisco, CA 94105, at the time such writing is made available to all, or a majority of all, members of that body.

Accessibility and Non-Discrimination Policy

The Bay Area Air Quality Management District (Air District) 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.

It is the Air District’s policy to provide fair and equal access to the benefits of a program or activity administered by Air District. The Air District will not tolerate discrimination against any person(s) seeking to participate in, or receive the benefits of, any program or activity offered or conducted by the Air District. Members of the public who believe they or others were unlawfully denied full and equal access to an Air District program or activity may file a discrimination complaint under this policy. This non-discrimination policy also applies to other people or entities affiliated with Air District, including contractors or grantees that the Air District utilizes to provide benefits and services to members of the public.

Auxiliary aids and services including, for example, qualified interpreters and/or listening devices, to individuals who are deaf or hard of hearing, and to other individuals as necessary to ensure effective communication or an equal opportunity to participate fully in the benefits, activities, programs and services will be provided by the Air District in a timely manner and in such a way as to protect the privacy and independence of the individual. Please contact the Non-Discrimination Coordinator identified below at least three days in advance of a meeting so that arrangements can be made accordingly.

If you believe discrimination has occurred with respect to an Air District program or activity, you may contact the Non-Discrimination Coordinator identified below or visit our website at www.baaqmd.gov/accessibility to learn how and where to file a complaint of discrimination.

Questions regarding this Policy should be directed to the Air District’s Non-Discrimination Coordinator, Rex Sanders, at (415) 749-4951 or by email at rsanders@baaqmd.gov.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
375 BEALE STREET, SAN FRANCISCO, CALIFORNIA 94105
FOR QUESTIONS PLEASE CALL (415) 749-5016 or (415) 749-4941

EXECUTIVE OFFICE:
MONTHLY CALENDAR OF AIR DISTRICT MEETINGS

MARCH 2017

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	1	9:45 a.m.	1 st Floor Board Room
Board of Directors Climate Protection Committee <i>(Meets on the 3rd Thursday of Every Other Month)</i> – RESCHEDULED TO MONDAY, MARCH 20, 2017 AT 9:30 A.M.	Thursday	2	9:30 a.m.	1 st Floor Board Room
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	15	9:45 a.m.	1 st Floor Board Room
Board of Directors Climate Protection Committee <i>(Meets on the 3rd Thursday of every other Month)</i> – RESCHEDULED TO THURSDAY, MARCH 2, 2017	Thursday	16	9:30 a.m.	1 st Floor Board Room
Board of Directors Executive Committee <i>(Meets on the 3rd Monday of each Month) - CANCELLED</i>	Monday	20	9:30 a.m.	1 st Floor Board Room
Board of Directors Climate Protection Committee <i>(Meets on the 3rd Thursday of Every Other Month)</i>	Monday	20	9:30 a.m.	1 st Floor Board Room
Board of Directors Stationary Source Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	20	10:30 a.m.	1 st Floor Board Room
Board of Directors Budget & Finance Committee <i>(Meets on the 4th Wednesday of each Month)</i>	Wednesday	22	9:30 a.m.	1st Floor, Yerba Buena Room #109
Board of Directors Mobile Source Committee <i>(Meets on the 4th Thursday of each Month)</i>	Thursday	23	9:30 a.m.	1 st Floor Board Room
Board of Directors Personnel Committee <i>(Meets At the Call of the Chair)</i>	Friday	24	9:30 a.m.	1 st Floor Board Room

APRIL 2017

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Advisory Council Mtg. <i>(Meets on the 1st Monday of Every Other Month)</i>	Monday	3	10:00 a.m.	1 st Floor Board Room
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	5	9:45 a.m.	1 st Floor Board Room
Board of Directors Executive Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	17	9:30 a.m.	1 st Floor Board Room
Board of Directors Stationary Source Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	17	10:30 a.m.	1 st Floor Board Room

APRIL 2017

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	19	9:45 a.m.	1 st Floor Board Room
Board of Directors Budget & Finance Committee <i>(Meets on the 4th Wednesday of each Month)</i>	Wednesday	26	9:30 a.m.	1st Floor, Yerba Buena Room #109
Board of Directors Mobile Source Committee <i>(Meets on the 4th Thursday of each Month)</i>	Thursday	27	9:30 a.m.	1 st Floor Board Room

MAY 2017

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	3	9:45 a.m.	1 st Floor Board Room
Board of Directors Executive Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	15	9:30 a.m.	1 st Floor Board Room
Board of Directors Stationary Source Committee <i>(Meets on the 3rd Monday of each Month)</i>	Monday	15	10:30 a.m.	1 st Floor Board Room
Board of Directors Regular Meeting <i>(Meets on the 1st & 3rd Wednesday of each Month)</i>	Wednesday	17	9:45 a.m.	1 st Floor Board Room
Board of Directors Climate Protection Committee <i>(Meets on the 3rd Thursday of every other Month)</i>	Thursday	18	9:30 a.m.	1 st Floor Board Room
Board of Directors Budget & Finance Committee <i>(Meets on the 4th Wednesday of each Month)</i>	Wednesday	24	9:30 a.m.	1st Floor, Yerba Buena Room #109
Board of Directors Mobile Source Committee <i>(Meets on the 4th Thursday of each Month)</i>	Thursday	25	9:30 a.m.	1 st Floor Board Room

HL – 2/23/17 (4:10 p.m.)

G/Board/Executive Office/Moncal

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Minutes of the Board of Directors Regular Meeting of February 1, 2017

RECOMMENDED ACTION

Approve the attached draft minutes of the Board of Directors Regular Meeting of February 1, 2017.

DISCUSSION

Attached for your review and approval are the draft minutes of the Board of Directors Regular Meeting of February 1, 2017.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

Attachment 4A: Draft Minutes of the Board of Directors Regular Meeting of February 1, 2017.

AGENDA 4A – ATTACHMENT

Draft Minutes - Board of Directors Regular Meeting of February 1, 2017

Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 4105
(415) 749-5073

Board of Directors Regular Meeting
Wednesday, February 1, 2017

DRAFT MINUTES

*Note: Audio recordings of the meeting are available on the website of the
Bay Area Air Quality Management District at
<http://www.baaqmd.gov/about-the-air-district/board-of-directors/resolutionsagendasminutes>*

CALL TO ORDER:

1. **Opening Comments:** Chairperson Liz Kniss called the meeting to order at 9:53 a.m. Director Pauline Russo Cutter, Mayor of San Leandro, and Director Pete Sanchez, Mayor of Suisun City, were introduced.

Roll Call:

Present: Chairperson Liz Kniss; Vice Chair Dave Hudson; Secretary Katie Rice; and Directors Teresa Barrett, David J. Canepa, Cindy Chavez, Pauline Russo Cutter, John Gioia, Carole Groom, Scott Haggerty, Tyrone Jue, Rebecca Kaplan, Doug Kim, Nate Miley, Karen Mitchoff, Mark Ross, Pete Sanchez, Rod Sinks, Jim Spring, and Brad Wagenknecht,

Absent: Directors John Avalos, Eric Mar, Jan Pepper, and Shirlee Zane.

2. **PUBLIC COMMENT ON NON-AGENDA MATTERS**

Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3

Public comments were made by Tom Lewis, East County National Association for the Advancement of Colored People (NAACP).

CONSENT CALENDAR (ITEMS 3-5)

3. **Minutes of the Special Board of Directors Meeting/Retreat of January 18, 2017**
4. **Board Communications Received from January 18, 2017 through January 31, 2017**
5. **Extension of Contracts for Website Development and Maintenance**

Public Comments:

No requests received.

Board Comments:

None.

Board Action:

Director Canepa made a motion, seconded by Vice Chair Hudson, to **approve** the Consent Calendar Items 3 through 5, inclusive; and the motion **carried** by the following vote of the Board:

AYES: Barrett, Canepa, Chavez, Cutter, Gioia, Groom, Haggerty, Hudson, Jue, Kaplan, Kim, Kniss, Mitchoff, Rice, Sanchez, Sinks, Spring, and Wagenknecht,
NOES: None.
ABSTAIN: None.
ABSENT: Avalos, Mar, Miley, Pepper, Ross, and Zane.

COMMITTEE REPORTS

6. Report of the Budget and Finance Committee Meeting of January 25, 2017

Budget and Finance Committee Chair Groom read the following Committee report:

The Committee met on Wednesday, January 25, 2017 and approved the minutes of December 16, 2016, with an amendment made by Director Mitchoff, regarding the incorrect date of the next Committee meeting.

The Committee reviewed and discussed the presentation Air District Financial Audit Report for Fiscal Year Ending 2016.

The Committee then reviewed and discussed the staff presentation Second Quarter Financial Report, Fiscal Year Ending 2017.

Finally, the Committee reviewed and discussed the staff presentation Overview of Current Fiscal Year Ending 2017.

The next meeting of the Budget and Finance Committee will be held on Wednesday, February 22, 2017, at 9:30 a.m., at the Bay Area Air Quality Management District office, 375 Beale Street, San Francisco, CA 94105. This concludes the Chair Report of the Budget and Finance Committee.

NOTED PRESENT: Director Ross was noted present at 10:00 a.m.

Public Comments:

No requests received.

Board Comments:

None.

Board Action:

None; receive and file.

7. **Report of the Mobile Source Committee Meeting of January 26, 2017**

Mobile Source Committee Chair Mitchoff read the following Committee report:

The Committee met on Thursday, January 26, 2017 and approved the minutes of December 15, 2016.

The Committee reviewed and discussed the staff presentation, Projects and Contracts with Proposed Grant Awards Over \$100,000. The Committee recommends the Board approve:

- 1. Carl Moyer Program projects with proposed grant awards over \$100,000 as shown in Attachment 1; and*
- 2. Authorization of the Executive Officer/Air Pollution Control Officer to enter into agreements with applicants for the recommended projects.*

The Committee then reviewed and discussed the staff presentation Overview of Transit and Shuttle Trends in the Bay Area.

Finally, the Committee reviewed and discussed the staff presentation Update Efforts to Further Reduce Emissions at the Port of Oakland.

The next meeting of the Mobile Source Committee will be held on Thursday, February 23, 2017, at 9:30 a.m., at the Bay Area Air Quality Management District Office, 375 Beale Street, San Francisco, California 94105.

I move that the Board approve the Mobile Source Committee's recommendations. This concludes the Chair Report of the Mobile Source Committee.

NOTED PRESENT: Director Miley was noted present at 10:02 a.m.

Public Comments:

No requests received.

Board Comments:

Committee Chair Mitchoff requested that Director Gioia, in his capacity as a CARB Board member, advocate that the District receive an increase from vehicle fees so that the District may enhance its TFCA Regional Fund, which helps implement eligible projects that achieve reductions in criteria pollutant emissions from on-road mobile sources within the boundaries of the Air District's jurisdiction.

Board Action:

Director Mitchoff made a motion, seconded by Director Kaplan, to **approve** the recommendations of the Mobile Source Committee; and the motion **carried** by the following vote of the Board:

AYES: Barrett, Canepa, Chavez, Cutter, Gioia, Groom, Haggerty, Hudson, Jue, Kaplan, Kim, Kniss, Mitchoff, Rice, Ross, Sanchez, Sinks, Spering, and Wagenknecht,
NOES: None.
ABSTAIN: None.
ABSENT: Avalos, Mar, Miley, Pepper, and Zane.

8. Report of the Stationary Source Committee Meeting of January 30, 2017

As the Stationary Source Committee Chair, Director Gioia reported that staff made a presentation to the Committee on rule development updates on January 30, 2017. Jack Broadbent, Executive Officer/Air Pollution Control Officer, gave a brief background on the rules currently under development, for the benefit of the two new Board members. Greg Nudd, Rule Development Manager, gave the staff presentation *Rule Development Update*, including: overview; refinery rulemaking history- Board Resolution 2014-07, progress, work on Draft Rule 12-16; Draft Rule 12-16; Draft Rule 13-1 – first rule of combustion strategy; comparison of Draft Rules 12-16 and 13-1; Draft Rule 11-18; schedule; and next steps.

Stationary Source Committee Chair Gioia read the following Committee report:

The Committee met on Monday, January 30, 2017, and approved the minutes of September 19, 2016.

The Committee reviewed and discussed the staff presentation Rule Development Updates.

The next meeting of the Committee is on Monday, March 20, 2017, at 10:30 a.m., at the Bay Area Air Quality Management District Office, 375 Beale Street, San Francisco, California 94105. This concludes the Chair report of the Stationary Source Committee.

Public Comments:

Public comments were made by Steven Yang, Chevron; Richard Quiroz, Chevron; Ron Espinoza, United Steelworkers Local 12; Mike Miller; Phillips 66; Bob Brown, Western States Petroleum Association; Paul Adler, Phillips 66; and Tom Lewis, East County NAACP.

Board Comments:

The Board and staff discussed the compatibility of Draft Rules 12-16 and 13-1 with the AB32 Cap and Trade Program, depending on the Program's extension past 2020; the need to align District and California Air Resources Board (CARB) goals; how often staff should report to the Stationary Source Committee on rule development and if a Stationary Source Committee meeting was needed prior to the May 15th Board meeting; the likelihood of when the adoption of Draft Rule 13-1 would occur, and why its adoption cannot be accelerated to May 2017; how Draft Rule 13-1 might impact the original rule adoption schedule for Draft Rules 12-16 and 11-18, and the public's expectation that staff will honor its commitment to the original adoption schedule; the need to publicize District workshops in advance so that the public can take proper notice of them; a letter from CARB Executive Director, Richard Corey, that the District anticipates receiving regarding the future of Cap and Trade and CARB's input on the District's current rule development, the fact that public District workshops need to be held in the evenings and in fence line communities, and the need for being cognizant of the

Board member's locations and schedules so that the public may see the Board members active at the workshops; the Board's concern that the District's anticipated Health Risk Assessment workload will take more than one year; the Board's request for a non-technical, visual, distilled version of the comparison between Draft Rules 12-16, 11-18, and 13-1, what CARB is doing, and how these draft rules interact with CARB's actions; the importance of monitoring stationary source impacts on fence line communities, versus monitoring their global impacts; why the District's goal is to reduce facility risk action level from 100 in a million to 10 in a million within Draft Rule 11-18; the prospect of requiring facilities with diesel generators that will be affected by the implementation of Draft Rule 11-18 to have biodiesel access plans; the Board's request for the list of Draft Rule 11-18-affected facilities, including type, degree of impact by the Rule, and language that the District sent to the facilities, informing them of Draft Rule 11-18; and the need for special outreach to publicly owned treatment works facilities regarding how the District's rule development might impact their operations.

Board Action:

None; receive and file.

9. **Report of the Ad Hoc Building Oversight Committee**

Ad Hoc Building Oversight Committee Chair Kniss read the following Committee report:

The Committee met on Wednesday, February 1, 2017, and approved the minutes of November 16, 2016.

The Committee reviewed and discussed the staff presentation 375 Beale Street Acquisition: Transfer of Funds. The Committee recommends the Board approve:

- 1. The authorization of the transfer of \$9 million dollars from General Fund reserves to complete the purchase of the Air District's portion of 375 Beale Street.*

The next meeting is at the call of the Chair. I move that the Board approve the Ad Hoc Building Oversight Committee's recommendation. This concludes the Chair Report of the Ad Hoc Building Oversight Committee.

Public Comments:

No requests receive.

Board Comments:

The Board and staff discussed the District's negotiations with the Bay Area Headquarters Authority regarding punch list items at 375 Beale Street and the District's purchase of the building.

Board Action:

Chair Kniss made a motion, seconded by Vice Chair Hudson, to **approve** the recommendations of the Ad Hoc Building Oversight Committee; and the motion **carried** by the following vote of the Board:

- AYES: Barrett, Canepa, Chavez, Cutter, Gioia, Groom, Haggerty, Hudson, Jue, Kaplan, Kim, Kniss, Miley, Mitchoff, Rice, Ross, Sanchez, Sinks, Spring, and Wagenknecht.
- NOES: None.
- ABSTAIN: None.
- ABSENT: Avalos, Mar, Pepper, and Zane.

PUBLIC COMMENT ON NON-AGENDA MATTERS

10. Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3

No requests received.

BOARD MEMBER COMMENTS

11. Board Member Comments

Director Hudson raised the question of whether or not there would be enough new business for the Board to discuss by February 15, 2017, the date of the scheduled upcoming Board meeting. The consensus of the Board members present eliminated the need for the February 15, 2017 Board meeting, but staff was directed to notify the Board if any new business warranted a Board meeting on February 15, 2017.

OTHER BUSINESS

12. Report of the Executive Officer / APCO

Mr. Broadbent's summary of ozone seasons from 2013 to 2016 has been posted on the District's website.

13. Chairperson's Report

Chair Kniss has nothing to report.

14. Time and Place of Next Meeting

Wednesday, February 15, 2017, at 375 Beale Street, San Francisco, CA 94109 at 9:45 a.m.

17. Adjournment

The meeting adjourned at 11:47 p.m.

Marcy Hiratzka
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Board Communications Received from February 1, 2017 through February 28, 2017

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

Copies of communications directed to the Board of Directors received by the Air District from February 1, 2017, through February 28, 2017, if any, will be at each Board Member's place at the March 1, 2017, Board meeting.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marjorie Villanueva
Reviewed by: Maricela Martinez

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Air District Personnel on Out-of-State Business Travel

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

In accordance with Section 5.4 (b) of the Air District's Administrative Code, Fiscal Policies and Procedures Section, the Board is hereby notified of District personnel who have traveled on out-of-state business.

The report covers the out-of-state business travel for the month of January 2017. The monthly out-of-state business travel report is presented in the month following travel completion.

DISCUSSION

The following out-of-state business travel activities occurred in the month of January 2017:

- Chengfeng Wang, Supervising Staff Specialist, attended the Electric & Hybrid Marine World Expo, Tampa, Florida, January 15, 2017 – January 19, 2017.
- Jack Broadbent, Executive Officer/APCO, attended the A&WMA Board of Directors Annual Meeting, Pittsburgh, Pennsylvania, January 19, 2017 – January 22, 2017.
- Daniel Alrick, Air Quality Meteorologist II, attended the American Meteorological Society Annual Conference, Seattle, Washington, January 22, 2017 – January 27, 2017.
- Charles Knoderer, Supervising Air Quality Meteorologist, attended the American Meteorological Society Annual Conference, Seattle, Washington, January 22, 2017 – January 27, 2017.
- Jack Broadbent, Executive Officer/APCO, attended the National Council for Science and the Environment's (NCSE) Conference Workshop, Arlington, Virginia, January 23, 2017 – January 26, 2017.

- Eric Stevenson, Director of Technical Services, attended NACAA's Monitoring Steering Committee, Memphis, Tennessee, January 23, 2017 – January 28, 2017.
- Elaine Ko, Air Quality Engineer II, attended the Measurement Technology Workshop, Durham, North Carolina, January 23, 2017 – January 26, 2017.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Stephanie Osaze
Reviewed by: Rex Sanders

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Notices of Violations Issued and Settlements in Excess of \$10,000 January 2017

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

In accordance with Resolution No. 2012-08, attached to this Memorandum is a listing of all Notices of Violations issued, and all settlements for amounts in excess of \$10,000 during the calendar month prior to this report.

BUDGET CONSIDERATION/FINANCIAL IMPACT

The amounts of civil penalties collected are included in the Air District's general fund budget.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Brian C. Bunger

Attachment 7A: Notices of Violations for the Month of January 2017

AGENDA: 7A ATTACHMENT

NOTICES OF VIOLATION ISSUED

The following Notice(s) of Violation were issued in January 2017:

Alameda						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
California Reflections	B0288	Livermore	A56691A	1/19/17	2-1-302	Issued for Reg 2 Rule 1 Section 302. Facility operated with an expired permit
Carlos/Maria Flores	X0471	Castro Valley	A57097A	1/4/17	6-3-301	Burning on WSTA
City Of Hayward, Facilities Division	A2422	Hayward	A55858A	1/12/17	1-302	regulation 2-1-302, the permit to operate expired 11/1/2014
Donley-Uitti	Y4891	Oakland	A57098A	1/4/17	6-3-301	Wood Smoke Violation
Harold Pattie Jr & Marlene Heilpattie	Y4884	Castro Valley	A57108A	1/9/17	6-3-301	Wood Smoke Violation
R&B Equipment, Inc	L4085	Hayward	A56881A	1/19/17	11-2-401.3	Didn't start work on start date
Restoration Management Company	R2288	Hayward	A56982A	1/25/17	11-2-303	Containment Breach and not a clean work site
Restoration Management Company	R2288	Hayward	A56982B	1/25/17	11-2-304	RACM not in sealed leak tight labeled containers
Robyn L Dondero	Y4873	Oakland	A57094A	1/4/17	6-3-301	Burning on WSTA
Tesla Motors Inc	A1438	Fremont	A55779A	1/25/17	2-6-307	A-1008, Direct Flame Afterburner, failed to meet 50 ppmvd NOX @15% O2 limit during source test. Dev #4669
Vladimir & Kristina Galante	Y4872	Castro Valley	A57096A	1/4/17	6-3-301	Burning on WSTA

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Contra Costa						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Air Liquide Large Industries US LP	B7419	Rodeo	A56359A	1/10/2017	2-6-307	Carbon Monoxide emissions exceeded Title V permit limit
Chevron Products Company	A0010	Richmond	A56822A	1/23/17	6-1-302	Visable emissions from NISO flare
Chevron Products Company	A0010	Richmond	A56823A	1/23/17	2-6-307	Visable emissions from NISO flare
Chevron Products Company	A0010	Richmond	A56823B	1/23/17	6-1-301	Visable emissions from NISO flare
Phillips 66 Company - San Francisco Refinery	A0016	Rodeo	A56360A	1/10/17	10	Missed Cylinder Gas Audits at SO2 CEM, 40 CFR 60.13 (a), Deviation 4458
Phillips 66 Company - San Francisco Refinery	A0016	Rodeo	A56361A	1/10/17	10	Missed Cylinder Gas Audits at SO2 CEM, 40 CFR 60.13 (a), Deviation 4458
Phillips 66 Company - San Francisco Refinery	A0016	Rodeo	A56362A	1/10/17	10	Missed Cylinder Gas Audits at SO2 CEM, 40 CFR 60.13 (a), Deviation 4458
Precision Auto Body	E2462	Antioch	A56692A	1/19/2017	2-1-302	Failure to renew Permit to Operate, Facility operated without P/O since April, 2015
Tesoro Refining & Marketing Company LLC	B2758	Martinez	A56217A	1/13/17	9-1-309	SAP; SO2 excess > 300ppm (4hr startup avg.). RCA #06X43

Marin						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Michael/Melinda Wilkerson	W3122	Fairfax	A57089A	1/3/17	6-3-301	Burning on WSTA

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Recipient	W3983	Forest Knolls	A57090A	1/3/17	6-3-301	Burning on WSTA
Resident	T2467	Woodacre	A57091A	1/3/17	6-3-301	Burning on WSTA
Resident	Y4789	San Geronimo	A57092A	1/3/17	6-3-301	Burning on WSTA
Resident	Y4887	Lagunitas	A57093A	1/4/17	6-3-301	Wood Smoke Violation

San Francisco						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
CPM Environmental, Inc	U6147	San Francisco	A56882A	1/18/17	11-2-401.5	Notified as SFD instead of COM
San Francisco, City & County, PUC	A4116	San Francisco	A56559A	1/27/17	2-1-307	Digester gas released to the atmosphere (PC #3292.1 & RCA #06Y93)
San Francisco, City & County, PUC	A4116	San Francisco	A56560A	1/27/17	2-1-307	Digester gas released to the atmosphere (PC #3292.1 & RCA #06Z24)
San Francisco, City & County, PUC	A4116	San Francisco	A56561A	1/27/17	2-1-307	Digester gas released to the atmosphere (PC #3292.1 & RCA #06Z32)
SFDPW - City and County of San Francisco	B1965	San Francisco	A56936A	1/9/17	2-1-302	PO expired 4/1/2011
Sunny Dry Cleaners	B1582	San Francisco	A56666A	1/10/2017	1-410	No registration expired registration

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San Mateo						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Armor Electric	E0647	Millbrae	A56509A	1/11/17	2-1-302	Expired Permit to Operate in February 2015
Georges Holiday Cleaners	B4937	Burlingame	A56665A	1/9/2017	1-410	Expired Permits
James Hogan	Y4913	Half Moon Bay	A57102A	1/5/17	6-3-308	Visible Emissions Violation
Recipient	W3042	Half Moon Bay	A57086A	1/3/17	6-3-301	Burning on WSTA
Resident	Y4886	Atherton	A57088A	1/3/17	6-3-301	Wood Smoke Violation
Sharp Park Golf Course	Y4949	Pacifica	A56928A	1/13/17	2-1-302	NPS:106694. Permit expired 8/1/2011

Santa Clara						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Equilon Enterprises LLC-San Jose Terminal	A0064	San Jose	A55687A	1/19/17	8-5-322.1	Rips & cracks in secondary seal (Breakdown 07A97)
Lehigh Southwest Cement Company	A0017	Cupertino	A56530A	1/12/2017	6-1-301	Visible emissions violation on S-154 (P-166) Precalciner kiln system; exceeding 10% standard, 0900-1000 hr on Jan. 11 2017
Loren Alberico	Y4885	Monte Sereno	A57109A	1/9/17	6-3-301	Wood Smoke Violation

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Wolf Finishing	B6614	San Jose	A55707A	1/23/17	2-1-302	Permit to Operate Expired 1/1/2015
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Solano						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
John & Barbara Christianson	Y4912	Fairfield	A57101A	1/5/17	6-3-301	Wood Smoke Violation
Kathleen Henderson	Y4875	American Canyon	A57103A	1/9/17	6-3-301	Wood Smoke Violation
Michael & Ada Donnoe	Y4901	Fairfield	A57100A	1/5/17	6-3-301	Wood Smoke Violation
Resident	Y4876	Vallejo	A57105A	1/9/17	6-3-301	Wood Smoke Violation
Resident	Y4878	American Canyon	A57106A	1/9/17	6-3-301	Wood Smoke Violation
Resident	Y4881	Benicia	A57107A	1/9/17	6-3-301	Wood Smoke Violation
Schall Ruth A Estate	Y4894	Fairfield	A57099A	1/5/17	6-3-301	Wood Smoke Violation
Solano Community College	A2284	Fairfield	A56061A	1/26/17	2-1-307	S-10, Boiler 1 – No annual source test, no daily fuel usage records or monthly records of number and duration of shutdowns and startups,, boiler operated >8 hrs./24-hr day
Solano Community College	A2284	Fairfield	A56062A	1/26/17	2-1-307	Site# A2284, S-11, Boiler 2 – No annual source test, no daily fuel usage records or monthly records of number and duration of shutdowns and startups

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The Ideal Body Shop	A8720	Vallejo	A56111A	1/4/17	2-1-302	P/O Expired 12/1/16
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Sonoma						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Michael D. Mascarenas	Y4755	Sebastopol	A57087A	1/3/17	6-3-301	Bruning on WSTA
Morris M & Charlotte Pimentel	Y4914	Sebastopol	A57110A	1/11/17	6-3-301	Burning on WSTA
NOV Site occur	L2721	Kenwood	A56980A	1/23/17	11-2-303.1	No wetting during removal
NOV Site occur	L2721	Kenwood	A56981A	1/23/17	11-2-303.1	No wetting during removal
Sonoma Developmental Center	A1941	Eldridge	A56090A	1/12/17	9-7-403	violation for 9-7-403. failure to perform initial source test on boilers greater than 10 mbtu
Sonoma Developmental Center	A1941	Eldridge	A56091A	1/12/17	9-7-403	violation for 9-7-403. failure to perform initial source test on boilers greater than 10 mbtu
Sonoma Developmental Center	A1941	Eldridge	A56092A	1/12/17	9-7-403	violation for 9-7-403. failure to perform initial source test on boilers greater than 10 mbtu

SETTLEMENTS FOR \$10,000 OR MORE REACHED

There were 5 settlement(s) for \$10,000 or more completed in January 2017.

- 1) On January 5, 2017, the District reached settlement with Quanta Computer USA Inc. for \$15,000, regarding the allegations contained in the following 1 Notice of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A48970A	4/26/16	3/27/08	2-1-301	No permit wipe clean opn; Using non compliant solvent
A48970B	4/26/16	3/27/08	8-4-313	No permit wipe clean opn; Using non compliant solvent
A48970C	4/26/16	3/27/08	2-1-302	No permit wipe clean opn; using non compliant solvent

- 2) On January 8, 2017, the District reached settlement with Crockett Cogeneration for \$10,000, regarding the allegations contained in the following 1 Notice of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A54433A	3/3/16	12/21/15	2-6-307	CO in excess of p/c #14970 part 20b. BAAQMD DEV #4400.

- 3) On January 8, 2017, the District reached settlement with Russell City Energy Co. LLC for \$30,000, regarding the allegations contained in the following 2 Notices of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A50218A	9/22/15	10/22/14	2-1-307	PSD PC #23763 Pt 59 & 60 >39.3 metric ton CO2E
A56628A	6/21/16	11/14/15	2-1-307	PC 23763 Pts 19 (d) + 19 (c) - CO excess

- 4) On January 18, 2017, the District reached settlement with Blaze Fireplace of Northern California Inc. for \$30,000, regarding the allegations contained in the following 2 Notices of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A11340A	7/31/12	6/4/12	1-441	failure to provide required information

AGENDA: 7A ATTACHMENT

A48792A	5/15/14	7/9/13	6-3-303	6-3-303.1 Sale & installation of non EPA Phase II Certified wood burning device.
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5) On January 25, 2017, the District reached settlement with VA Palo Alto Health Care System for \$20,000, regarding the allegations contained in the following 1 Notice of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments from Enforcement
A53671A	1/6/16	11/24/15	9-7-307	Excessive NOx during Source Test

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Quarterly Report of the Executive Office and Division Activities for the Months of
October 2016 – December 2016

**ADMINISTRATIVE RESOURCES DIVISION
R. SANDERS, DIRECTOR**

Human Resources

The Human Resources (HR) Office coordinated 12 recruitment exams including exams for Air Quality Inspector, Air Quality Technician, Assistant Manager, High School Intern, Legal Office Services Specialist, Manager, Secretary, Supervising Air Quality Engineer, Temporary Air Quality Chemist, Temporary Human Resources Technician, and Temporary Office Assistant. In addition, the HR Office offered 3 training sessions, including: Presentation Skills, Build Strong Working Relationship, and Project Management for Administrative Professionals. The HR Office continues to administer payroll, benefits, safety, labor/employee relations, and wellness activities. There are currently 325 regular employees, 12 temporary employees and interns, and 40 vacant positions. There were 9 new employees, 3 promotions, and 8 separations from October to December 2016.

Business Office

The Business Office issued 361 purchase orders. Fleet services outsourced 4 vehicles for maintenance and/or body shop repairs. There were a total of 262 vehicle requests (14 from ABAG staff, 73 from MTC staff, and 175 from District staff). 237 pool vehicles were loaned out and 25 Enterprise car rentals were issued. There are currently 121 fleet vehicles: 1 electric, 1 hydrogen, 19 plug-in hybrids, 24 gas, 17 CNG, and 59 hybrids. The department executed 63 contracts and 1 lease. There were 2 request for proposals/qualifications during this period.

Strategic Facilities Planning Office**375 Beale Street Condominium:**

On December 27, 2016, the Declaration of Covenants, Conditions and Restrictions ("CCRs") for 375 Beale Street were finalized and recorded with the City and County of San Francisco. The next steps involve closing the Air District's sale transaction.

Major Construction Activities include:**Electric Vehicle (EV) Charging Stations**

A Request for Proposals has closed to add 21 Level 2 (240V) dual port and one DC Fast (440v) EV Charging Stations in the parking garages for use by staff, building occupants and the public. Once the vendor is selected, a separate procurement will be initiated to select a contractor to install the electrical infrastructure necessary to support the selected system. Depending on the complexity of the system, the desire is to have the entire EV system fully operational by Summer 2017.

Resource Center ("The Hub") and Ada's Cafe

HUB (Resource Center) located in the main lobby of the building began operations January 11, 2017. The HUB will provide resources for the three agencies; providing information on transportation, air quality permitting, asbestos, FastTrak customer service, vendor for Clipper cards, and bike sharing program. ADA's Café opened January 25, 2017.

The HUB and Ada's Café operating hours are from 7:00 a.m. – 6:00 p.m. Monday – Friday and Saturday from 9:00 a.m. – 1:00 p.m. The hiring process for employee to staff the HUB is underway.

Streetscape/Rincon Place

Tishman Speyer continues Streetscape/Rincon place work. Concrete foundations for walls and ramps in Rincon Place were installed at the end of December. Streetscape work along Beale, Main, and Harrison Streets continues slowly. Work on Main and Harrison Streets is being held up due to coordination between Tishman Speyer and the City on final lane striping. Rincon Place construction completion date is slated for February timeframe; however, rain continues to cause delay.

**COMPLIANCE AND ENFORCEMENT DIVISION
W. KINO, DIRECTOR**

Enforcement Program

Air District staff documented 259 air pollution violations that resulted in Notices of Violation and responded to 1205 general air pollution complaints. These activities addressed noncompliance with applicable federal, state and air district regulations and provided a mechanism for the public to voice their concerns about air pollution issues that might be in noncompliance. Additionally, highlighted enforcement activities for the quarter are as follows:

- From October 1 – December 31, 2016, staff received and investigated more than 400 air pollution complaints for odorous emissions in the greater Milpitas area, a 31% reduction from 4th quarter 2015.
- Staff observed no offsite odor impacts from the 5-week long biosolids transfer operation from the San Jose / Santa Clara Regional Wastewater Facility to Newby Island landfill, which was completed on October 25, 2016. Staff worked closely with both facilities to ensure that each

one closely monitored their operational conditions and implemented best management practices to prevent offsite odor impacts.

- On October 20, 2016, staff participated at the South Bay Odor Stakeholders Group (SBOSG) meeting. The group meets quarterly and serves as a forum for municipal leaders, private industry, state and local regulators, and community members to collaborate in identifying and resolving odor issues in the greater Milpitas area. Of special interest to staff was the presentation by the San Jose Local Enforcement Agency (LEA) on its jurisdiction and authority over composting operations, complaint response and investigations related to Newby Island Resource Recovery Park and Zero Waste Energy Development Company.
- Staff participated at the Lehigh Southwest Cement Intra-agency meeting on November 3, 2016 hosted by Santa Clara County's Planning Department. The meeting, which is held semi-annually, provides a forum for all regulatory agencies (local, state, and federal) to discuss ongoing compliance issues at the Lehigh cement and quarry facility located in Cupertino.
- Staff participated in a multi-agency inspection on October 6, 2016 in the 1200-1300 block of Carroll Avenue, Bay View Hunters Point, SF to address local businesses' dust control, illegal dumping and roadway conditions. The area was adjacent to public housing and a housing redevelopment construction site with naturally occurring asbestos. The Carroll Avenue location was a frequent complaint of the environmental justice community.
- On November 16, 2016, staff participated at the second annual, Lehigh Southwest Cement community informational meeting hosted by Santa Clara County Supervisor Joe Simitian and attended by various local, state and federal agency officials. Lehigh is a large Portland cement manufacturer and quarry in Cupertino. Staff answered air pollution related questions from Supervisor Simitian and the public. There were more than 100 people in attendance.
- On November 23, 2016, the Air District's Hearing Board denied Shell Oil Products (San Jose Terminal) emergency variance request based on staff's investigation findings that tears on the secondary seal of its premium unleaded gasoline tank were not beyond the facility's reasonable control and was not unforeseeable. Staff will serve a Notice of Violation to Shell Oil Products for the violation 1st quarter 2017.
- On December 5, 2016, staff attended the San Jose Planning Commissioners meeting on the permit appeal of the planned development permit for the expansion of the Newby Island Landfill. The appeal was denied allowing the expansion of Newby Island.
- The second season of the Air District's Agricultural Waste Chipping Program ended December 31, 2016. The approximate 10,000 cubic yards of material chipped instead of burned from the 23 projects funded by the program avoided 3.1 tons of particulate emissions being released into Bay Area skies.

Compliance Assurance Program

Air District staff conducted over 2,946 inspections including permitted facilities, gasoline stations, asbestos, open burning, portable equipment and mobile sources. Additionally, highlighted inspection activities for the quarter are as follows:

- Staff attended the October 5-6, 2016 Enforcement Symposium in Sacramento hosted by the California Air Pollution Control Officers Association (CAPCOA) and the California Air Resources Board (CARB). The event brought together air pollution staff from throughout the state of California to learn keys to successful compliance through collaboration and consistency. Two members of our staff led modules entitled “the Air District’s Onboard Training Program for New Inspectors” and “Inspection Tools and Techniques.”
- On Thursday September 15, 2016 the Air District received a 14-person petition complaint from neighbors regarding the Bowl’D Restaurant in Albany. The neighbors were primarily complaining of nuisance smoke from the restaurant during the lunch and dinner hours of the day. Air District staff contacted the complainants and explained the District’s jurisdiction over restaurant smoke. In addition, Air District staff contacted the City of Albany Buildings Department and Alameda County Environmental Health in regards to this situation. Air District staff have not documented a violation at this time but are continuing to monitor this situation.
- On Monday, September 26, 2016, the Air District received 50 odor complaints from the Richmond, San Pablo, & El Sobrante communities. The odor description ranged from compost to sewer & bad garbage. Air District staff confirmed the odors to be coming from the West Contra Costa County Sanitary Landfill (WCCCSL), in Richmond, owned and operated by Republic Services. WCCCSL was ordered by Contra Costa County Environmental Health Department, the Local Enforcement Agency (LEA) to remove the excess compost material that had accumulated at the facility. The LEA and the Air District determined the material was no longer composting and was no longer windrowing the material therefore fell under the Air District’s jurisdiction. A Public Nuisance violation was documented by Air District staff.
- On Tuesday and Wednesday of October 4 and 5, 2016, the Air District received approximately 100 odor complaints from the Richmond, San Pablo, & El Sobrante communities. Air District staff documented two days of Public Nuisance violations associated with WCCCSL. The sour material was spread over the top portion of the WCCCSL site as erosion control material. These Public Nuisance violations are in addition to one documented on September 26th. In addition, the Contra Costa County Environmental Health Services, the Local Enforcement Agency (LEA), issued a Cease & Desist order to Republic Services on October 4, 2016 that prohibited any further use of the sour compost material at WCCCSL. The order also required WCCCSL to submit a plan for LEA approval regarding the removal of the remaining sour material.
- On Friday October 28, 2016 Shell Refinery Martinez called a level 1 (on site, possible offsite, no health impact expected) into the Contra Costa County Community Warning System as a result of flaring at the Flexicoker Flare. Flaring was caused by interrupted steam flow into the heater at Hydrogen Plant 1 (HP1). The unit was automatically shut down and the facility was able to start up by the evening of October 29, 2016. The flaring event was under the District’s 500,000 Standard Cubic Feet limit and therefore not a reportable flaring event and no District Regulations were violated.

- On Monday November 7, 2016, Shell Refinery Martinez reported a Level 1 event (on site, possible offsite, no health impact expected), into the Contra Costa County Community Warning System. The event was a result of an unexpected shutdown of the Fluidized Catalytic Cracking Unit (FCCU). Three Carbon Monoxide Boilers (COB's) associated with the FCCU experienced opacity excesses on their Continuous Emission Monitors (CEM). No visible emissions were observed by Air District staff. The unit was started up the following day.
- On Tuesday November 15, 2016 Air District and the Department of Toxics Substance Control (DTSC) staff conducted a joint inspection at the Sims Scrap Metal facility in Richmond. Air District staff discovered an un-permitted small gasoline tank used for recovered fuel from scrapped cars. The facility is in the process of obtaining a permit to operate.
- On Wednesday December 7, 2016 Air District staff met with the Point Richmond Neighborhood Council to discuss progress at WCCCSL to eliminate odors from composting operations. Representatives from the Contra Costa County Environmental Health Department (LEA) and the City of Richmond Code Enforcement also attend the meeting.
- On Monday December 12, 2016, at approximately 7:35 am a fire broke out at Deal Auto Wrecking located at the intersection of West Gertrude Avenue and the Richmond Parkway in Richmond. Richmond and Chevron Refinery Fire departments responded. Chevron Refinery Fire Department positioned a foam truck inside the wrecking yard's lot at about 8:21am and began to extinguish the fire. Contra Costa County Hazardous Materials issued a Shelter in Place Advisory at 8:27 am for Richmond and the advisory was cleared at approximately 10:00 am. No smoke complaints were received by the District regarding this incident. Staff are continuing to investigate the cause of this fire and determine if any violations of District Regulations occurred.
- On Monday December 19, 2016, Air District staff responded to an incident at the Shell Martinez Refinery. The facility reported a level 2 (expected offsite impact, may have adverse health effects to sensitive populations) into the Contra Costa County Community Warning System as a result of flaring at the Light Oil Processing (LOP) Flare and the Operations Central Hydrocarbon (OPCEN) Flare. Flaring was caused by a partial power outage and resulted in the shutdown of several units within the refinery. The flaring exceeded the District's 500,000 standard cubic foot (scfs) limit which requires the facility to report the flaring event to the District. The facility has reported five emission excesses for visible emissions (3) and Sulfur Dioxide (SO₂) (2) as a result of the incident. Air District staff received and confirmed two odor complaints from the community and is currently conducting an ongoing investigation of this incident.
- Air District Staff continue to conduct the Heavy Liquid Study at the Tesoro Refinery in Martinez, California. At the current screening rate, staff project that the Tesoro heavy liquid component screening will be completed in January 2017.

Compliance Assistance and Operations Program

Air District staff received and evaluated over 1,875 plans, petitions, and notifications required by the asbestos, coatings, open burn, tank and flare regulations. Staff received and responded to over 63 compliance assistance inquiries and green business review requests. Additionally, highlighted compliance assistance activities for the quarter are as follows:

- On November 14, 2016, staff participated at a Compliance Seminar hosted by the Sonoma County Farm Bureau in Santa Rosa and gave a presentation covering the Air District’s open burning and agricultural waste chipping programs.
- The Stubble Burn Season (September 1 to December 31) ended. Staff received and approved 2 stubble burn projects in Sonoma County. A total of 130 acres were actually burned for the season.
- Air District staff approved 1 prescribed burn smoke management plans in Marin County.
- The *Winter Spare the Air* season began November 1. The 877-4NO-BURN line was switched to the winter messaging notifying callers of the daily burn forecast. Staff mailed out 112 informational packets to residences that received complaints regarding wood burning. During the last quarter of 2016, the Air District received 24,797 calls to the 1-877-4NO-BURN line, and 916 complaints regarding wood burning.
- Air District staff conducted 232 inspections for the Strategic Incentives Division (SID).
- Air District staff attended and presented at the CAPCOA Enforcement Symposium that took place October 4 – 5, 2016 in Sacramento.

(See Attachment for Activities by County)

**ENGINEERING DIVISION
J. WILLIAMS, DIRECTOR**

Permit Activity Statistics

The following table summarizes permit activity in the 4th quarter:

Permit Activity			
New applications received	275	New facilities added	108
Authorities to Construct issued	200	Permit Exemptions (entire applications deemed exempt)	2
Permits to Operate issued (new and modified)	440	Annual update packages completed	983
Registrations (new)	37		

Health Risk Analysis (HRA): 61 HRAs were completed during the reporting period.

Energy Projects

Staff continues to work with regulatory agencies and community groups to discuss permitting issues associated with proposed energy projects including Shore Terminal/NuStar Biofuels project, Phillips 66 Marine Terminal III project and Chevron Long Wharf Maintenance and Efficiency Project.

Shore Terminal/NuStar Biofuels Project (Crockett): The proposed project will allow the facility to receive biodiesel, CARB diesel and other renewal fuels by marine vessels, rail and/or existing pipeline into its Selby Terminal and deliver out by truck. The goal of the project is to supply facilities with fuels that meet the lower carbon intensity fuel standard. The proposed project involves physical changes to the dock, rail unloading area, storage tanks, truck loading bay and installation of new pipeline under San Pablo Avenue. Shore Terminals submitted application on June 14, 2016 to obtain the necessary operating permits for this project, which is currently under review. The Contra Costa County Planning Commission continues to review the project to determine CEQA requirements.

Phillips 66 Marine Terminal III Project (Rodeo): The facility is requesting an increase in the amount of crude oil/gas oil that may be unloaded at the marine terminal from 51,182 barrels per day to 130,000 barrels per day. The project does not require any physical modifications or construction. The Air District will be the lead agency for CEQA. Phillips submitted the application on August 2, 2013. Air District staff met with Phillips 66 to discuss the project on June 30, 2016. A previous permit application 22904 was approved on March 13, 2013 to increase the amount of crude oil/gas oil that may be unloaded at the marine terminal from 30,682 barrels per day to 51,182 barrels per day. The Air District acted as the lead agency for CEQA for the project. The current CEQA analysis will evaluate the increase in ship emissions from the activity level prior to application 22904 to 130,000 barrels per day. The Air District will act as the lead agency for CEQA for this project and has hired a CEQA Review Consultant to conduct the CEQA review.

Chevron Long Wharf Maintenance and Efficiency Project (Richmond): The proposed project would allow Chevron Products Company to implement modifications to the Richmond Refinery Long Wharf, including seismic retrofits to berths, adding mooring equipment, and installing piles and over water structures, in order to meet Marine Oil Terminal Engineering and Maintenance Standards (MOTEMS) requirements and improve reliability. Staff met with the California State Lands Commission (SLC) and Chevron to discuss its September 13, 2016 comment letter on the Draft Initial Study and Mitigated Negative Declaration (IS/MND) for this project. The SLC is the CEQA lead agency on this project. In its October 2016 Recirculated IS/MND, the SLC has addressed the Air District's comment letter. On December 6, 2016, the SLC adopted the MND and Mitigation Monitoring Program for the Chevron Long Wharf Maintenance and Efficiency Project. The SLC also consented for Chevron to commence the Project and MOTEMS compliance-related renovations.

CEQA Projects

Vallejo Marine Terminal (VMT) and Orcem Project: The proposed project consists of two main components: (1) The VMT component would reestablish industrial uses on the VMT site through the removal of the deteriorated timber wharf and construction of a modern deep-water terminal (2) The Orcem component would involve construction and operation of an industrial facility for the production of a high performance, less polluting alternative for traditional portland cement. Orcem would import most of the raw materials used in the manufacturing process via ships docking at the wharf proposed by VMT. Staff sent comments on the DEIR to the City of

Vallejo, the CEQA Lead Agency, on November 2, 2015 and participated in a conference call with the project proponent to discuss them. The Air District has received a permit application for the Orcem project, but not for the VMT project. Representatives from both ORCEM and VMT came to the Air District in October to provide information on the project to both Engineering and Planning. There has been a delay in the release of the Final EIR due to 1) incorporation of the applicant's proposed changes to the project, including the removal of VMT's Phase 2 dike, and 2) the additional coordination with the Air District, San Francisco Bay Conservation & Development Commission, Solano County Department of Resource Management, State CEQA Clearinghouse, State Department of Fish & Wildlife, and State Department of Transportation (District 4). In order to follow the City of Vallejo's practice of providing the decision-makers and the public three weeks to review the staff report and related materials for complex projects, the Planning Commission hearing was rescheduled from December 2016 to February 2017.

Syar Napa Quarry Project: On November 18, 2015, the Napa County Planning Commission adopted a resolution with required CEQA and Surface Mining Permit (SMP) Findings to approve the Syar Napa Quarry Expansion Project to allow the following: a) An approximate 106-acre expansion of the current surface mining and reclamation plan for a 35 year term; b) An increase in production of aggregate materials from approximately 1 million tons per year to 1.3 million tons per year; c) To add Reclaimed Asphalt Pavement (RAP) handling equipment to the existing asphalt batch plant and an increase in asphalt production up to 300,000 tons per year. Both the Environmental Impact Report (EIR) certification and SMP decisions have been appealed to the Napa County Board of Supervisors. The Board of Supervisors conducted public hearings on February 9th, March 22nd, April 26th, May 10th and July 11th. At the July 11, 2016 hearing, Napa County supervisors tentatively decided in favor of the project. They voted unanimously to uphold the project's EIR and voted 4-1 to back the expansion. At the October 18, 2016 hearing, the Board of Supervisors voted unanimously to deny the appeals and to back the expansion. A permit application for RAP handling equipment was submitted to the Air District on February 5, 2016 and is currently incomplete. No permit application has been received for the proposed aggregate production increase at this time. Syar met with Air District staff on August 23, 2016 to discuss potential modifications of grandfathered equipment. On September 12, 2016, the Air District sent a letter to Syar to summarize the remaining information needed to complete the application and to clarify altered vs. modified sources. On December 14, 2016, Syar submitted an application in order for the blue smoke system to be handled separately from the RAP handling equipment application. An NOE will be filed for the blue smoke application, and an NOD will be filed for the RAP handling equipment application.

Permits and Projects

Gillig: This facility is proposing to move their bus manufacturing operation from Hayward to Livermore. The Air District was ready to issue the Authority to Construct in May 2016, when Gillig revised coating throughputs at the various spray booths. Staff revised the Health Risk Assessment and Engineering Evaluation Report, including a new Best Available Control Technology review. Gillig has provided both banked offsets from the closure of their Hayward facility and purchased emission reduction credits to offset the POC increases at the new facility. The Air District issued the Authority to Construct and filed the Notice of Determination with the Alameda County Clerk during the week of November 7, 2016.

Schnitzer Steel Products Company (Oakland): On November 10, 2016, the Air District issued an Authority to Construct to Schnitzer Steel Products Company (SSPC) for an upgraded enclosure and abatement system for the automobile and appliance shredding operations at SSPC's

Oakland, CA facility. The enclosure is designed to capture fugitive emissions that are currently not controlled. The captured fugitive emissions will be controlled by two new venturi scrubbing systems.

C&C Property Management (Oakland): On July 18, 2016, C&C submitted an application for a sub-slab depressurization system at 345 12th Street, Oakland. AMethod Middle School, and Oakland Charter High School are at the site. DTSC prohibited occupation of the site by the schools because concentrations of trichloroethylene in the school were above levels allowed by DTSC for occupation by the students and the staff. The school was not able to find another site that would be available before the start of the school year on August 24, 2016. Since there are two other schools in the area that must be notified, staff was not able to expedite a permit for the sub-slab depressurization system. Instead, Engineering staff assisted Legal Division staff in the preparation of an Enforcement Agreement. The permit application was processed normally including public notification and a Permit to Operate was issued on December 2, 2016.

Regulation 2 Permitting Rules: Revisions to our New Source Review permitting rules were adopted by the Board of Directors in December 2012, but the revised rules did not become effective until EPA approved them for inclusion in the State Implementation Plan. On August 28, 2015, EPA published in the Federal Register a proposed limited approval and limited disapproval of our rules. Comments on EPA's proposed action were due Nov. 12, 2015. Staff provided comments to EPA on key areas of concern. The most significant issue is EPA's position that a facility must provide offsets more than once for the same emissions. On June 3, 2016, EPA Region 9 Acting Regional Administrator Alexis Strauss signed a Federal Register Notice, finalizing the limited approval/limited disapproval of revisions of the Air District's New Source Review (NSR) Program. Certain sections of the rule contain deficiencies that must be corrected within 18 months to avoid Clean Air Act sanctions. The EPA's Final Notice was published in the Federal Register on August 1 and the rule revisions became effective on August 31, 2016. On November 4, Engineering met with EPA staff to discuss issues related to the potential requirement of offsetting of the same emissions multiple times and the creation of an equivalency demonstration. Staff continues to work with EPA to resolve these issues.

Regulation 2, Rule 5, New Source Review (NSR) of Toxic Air Contaminants: On December 7, 2016, Air District's Board of Directors adopted amendments to the Toxic NSR rule. The rule was amended to (1) implement the State's revised Health Risk Assessment and Risk Management Guidelines for Stationary Sources; (2) incorporate new and revised toxic air contaminant emission rate trigger levels for health risk assessment requirements; (3) revise TAC emission calculation procedures for older modified sources and add net project health risk limits for projects including these older modified sources; (4) extend the related application period from two years to three years; (5) add exemptions from health risk assessment for sources with no increases in toxicity weighted emissions and for engines smaller than 50 brake-horsepower; and (6) update regulatory language for consistency with State guidelines. Overall, these rule revisions will increase the stringency of the Air District's Toxic NSR Program.

Regulation 11, Rule 18, Reduction of Risk from Air Toxic Emissions at Existing Facilities: Staff participated in six open houses to discuss and gather comments regarding this proposed new regulation: Richmond on November 9, Oakland on November 10, San Francisco on November 14, San Jose on November 15, Martinez on November 16 and Fremont on November 17. This proposed new rule will require that existing facilities reduce their health risk impacts on the surrounding community below 10 in a million cancer risk or use best available retrofit control technology for toxics on all significant sources of risk.

EPA’s Proposed Revisions to the Petition Provisions of the Title V Permitting Program: NACAA has drafted comments on EPA’s proposed rule, “Revisions to the Petition Provisions of the Title V Permitting Program”. The Air District staff is reviewing the NACAA draft comment letter. On August 24, 2016, EPA published in the Federal Register (81 Fed. Reg. 57822) the proposed revisions to the petition provisions of the Title V permitting program. The publication opened the 60-day public comment period, which closed on October 24, 2016. The proposal would, among other things, require permitting authorities to respond in writing to significant comments received on draft permits and to submit their response to comments documents to EPA for a 45-day review period; establish mandatory Title V petition content requirements and standard formatting for petitions; and provide direction on how petitions are to be submitted to EPA. The proposal also includes guidance on “recommended practices” for permitting authorities and sources to help ensure the completeness of administrative records.

Small Business Ombudsman/Environmental Assistance Report for 2015: Per ARB’s request, staff coordinated the Air District’s submittal of the BAAQMD Small Business Ombudsman/Environmental Assistance Report for 2015. Annually, ARB compiles and submits information on California’s small business outreach and compliance assistance to U.S. EPA. U.S. EPA’s Office of Small Business is required by Section 507 of the Clean Air Act to compile the information into a national report for the Administrator who makes it available to Congress and other interested entities. Once the California report is compiled, ARB’s Ombudsman shares it with interested air districts, ARB Board members, the Governor’s Office of Business and Economic Development, California legislators, and business organizations.

NACAA Permitting and New Source Review Committee Conference Call: Staff participated in the meeting on November 9, 2016. EPA provided an update on its Final PSD Permit Rescission Rule, which does not appear to impact the Air District. EPA also provided an update on the Permitting Electronic Notice Final Rule. The Air District staff is assessing whether any amendments to the current public notice requirements in Regulation 2 will be necessary. EPA also presented guidance on Incorporating Consent Decree Terms into State-Issued Federally Enforceable Permits. The guidance may result in a few changes to the Air District’s process for incorporating consent decree terms into the Air District’s Title V permits.

CAPCOA Engineering Managers Committee Meeting: Staff participated in the meeting on October 24-25, 2016. ARB and EPA provided updates on their programs and rulemaking activities. The committee discussed issues including the following: Portable ATCM and PERP changes, Air curtain incinerators, GHG rules for landfills, Mobile refueling operations, Wine barrel toasting permits, and CAPCOA GHG Rx Protocols. Staff provided an update on its review of the proposed GHG Rx protocol for Compost Additions to Grazed Grasslands (avoidance of anaerobic decomposition) and discussed steps to move the review forward for CAPCOA Board consideration.

CAPCOA GHG Rx Protocol Review: Staff is leading the review of the protocol that provides methods to quantify GHG emission reductions that are associated with avoiding anaerobic decomposition of organic material used in the compost production from the American Carbon Registry’s protocol titled “Methodology for Compost Additions to Grazed Grasslands, Version 1.0, October 2014. Adding compost to Grazed Grasslands can be an effective way to increase soil carbon sequestration and avoid emissions related to the anaerobic decomposition of organic waste material in landfills. In addition to climate benefits, adding compost stimulates forage growth and can improve the quality of soils. This protocol contains methodologies to account for

the carbon sequestration and avoided GHG emissions related to compost additions to Grazed Grasslands. One of the methodologies is for quantifying the reductions of methane (CH₄) emissions that result from anaerobic decomposition of the organic material used in the production of compost under baseline conditions – for example, when the organic matter is buried in landfills – can be avoided by composting and applying compost on Grazed Grasslands. On December 10, 2014, the CAPCOA Board approved the protocol methodologies for “Marin Carbon Project” Process 2 (Direct increase in soil organic carbon content) and Process 3 (Indirect increase in SOC sequestration) for listing in the CAPCOA GHG Rx. Process 1 (Avoidance of anaerobic decomposition) was not evaluated at that time and is the subject of this current evaluation. Staff reviewed and provided comments on the San Joaquin Valley APCD’s evaluation of the Climate Action Reserve U.S. Livestock Project Protocol Version 4.0 (January 23, 2013). The Climate Action Reserve U.S. Livestock Project Protocol Version 4.0 provides methods to quantify and report greenhouse gas (GHG) emission reductions that are associated with the installation of biogas control systems to capture gas from uncontrolled anaerobic manure management systems on dairy cattle and swine farms. The methane (CH₄) in the captured biogas can be destroyed (e.g. combusted) on-site, transported off-site for use that results in destruction, or used as fuel for vehicles. Centralized digesters that include manure from more than one livestock operation also qualify to use this protocol.

CAPCOA-ARB 111(d)/Landfill Work Group: Staff participated in the kickoff meeting of this workgroup, which was formed to discuss and consider ARB’s proposals for the state to comply with new EPA New Source Performance Standards/Emission Guidelines (NSPS/EG) requirements. On July 15, 2016, EPA released final revisions to the municipal solid waste landfill NSPS and EG to reduce both GHG and criteria pollutant emissions from these types of facilities. The new EG requires each affected state to submit to EPA by May 30, 2017, a compliance plan detailing how it will meet these new requirements, unless the state is granted an extension by EPA. Staff reviewed and compared the U.S. EPA database list of Bay Area landfills subject to the new Emission Guidelines (EG) or NSPS versus BAAQMD-regulated landfills, and provided corrections to the ARB on the list. On July 15, 2016, U.S. EPA released final revisions to the municipal solid waste landfill NSPS and EG to reduce both greenhouse gas and criteria pollutant emissions from these types of facilities. Additionally, the new EG requires each affected state to submit to U.S. EPA a compliance plan detailing how it will meet these new requirements. This database list review/correction is part of the ARB’s compliance plan preparation effort.

LEGAL DIVISION
B. BUNGER, DISTRICT COUNSEL

The Air District Counsel’s Office received 196 violations reflected in Notices of Violation (NOVs) for processing.

Mutual Settlement Program staff initiated settlement discussions regarding civil penalties or passing the Wood Smoke Awareness Course for 80 violations reflected in NOVs. In addition, 8 Final 30 Day Letters were sent regarding civil penalties for 9 violations reflected in NOVs. Finally, settlement negotiations resulted in collection of \$116,950 in civil penalties for 84 NOVs.

Counsel in the District Counsel’s Office initiated settlement discussions regarding civil penalties for 8 violations reflected in NOVs. Settlement negotiations by counsel resulted in collection of \$303,750 in civil penalties for 49 violations reflected in NOVs.

(See Attachment for Penalties by County)

COMMUNICATIONS AND PUBLIC INFORMATION DIVISION L. FASANO

News Releases

The Air District issued 29 press releases and/or media advisories during the last quarter:

10/3/2016	SB 773 signed by Governor Brown
10/4/2016	Annual youth conference encourages action for clean air
10/06/2016	Air District issues Spare the Air Alert
10/06/2016	Air District offers \$250,000 in community grants
10/07/2016	Air District issues Spare the Air Alert
10/09/2016	Air District issues Spare the Air Smog Alert for TODAY
10/11/2016	Permissive burn season closes for fall marsh management fires
10/12/2016	Media Advisory: Air District hosts Climate Forward Bay Area: A Leadership Forum
10/13/2016	Air District seeking public input on rule to reduce public health risks
10/24/2016	Air District settles case with Valero Refining Co.
10/25/2016	Permissive burn periods for orchard pruning and attrition fires and forest management fires open
10/26/2016	Record-breaking Spare the Air season comes to an end
10/27/2016	Air District announces \$1.18 million in new grant awards
10/31/2016	Winter Spare the Air season begins November 1
11/01/2016	Media Advisory: Call for applications for new Spare the Air Leadership Award
11/02/2016	Air District to host open houses on health risk reduction rule
11/03/2016	Media Advisory: Air District holding Richmond and Oakland open houses
11/09/2016	Media Advisory: Air District holding San Jose open house
11/10/2016	Media Advisory: Air District holding San Francisco open house
12/7/2016	Air District honors former Berkeley Mayor Tom Bates with Lifetime Achievement Award
12/16/2016	Air District inspectors respond to Richmond Deal Auto Wrecking fire
12/18/2016	First Winter Spare the Air Alert of the season called for December 19
12/19/2016	Two-day Winter Spare the Air Alert called for December 20 and 21
12/20/2016	Media Advisory: REMINDER - Winter Spare the Air Alert called again for December 21
12/21/2016	Winter Spare the Air Alert called for December 22
12/23/2016	Media Advisory: Be mindful during the holidays about fireplace use
12/27/2016	Permissive burn season closes for stubble fires
12/29/2016	Air District investigating potential sources of rotten-egg odor in SF & Richmond
12/30/2016	Air District & Contra Costa Health Services collaborating to determine source of rotten-egg odor in SF & Richmond

Media Inquiries

Staff responded to 69 media inquiries during this quarter. Topics included:

- Air monitoring
- Air Quality
- Chevron violations
- Commuter Benefits program
- End of the Summer Spare the Air season
- EPA
- Loma Fire smoke impacts
- Mantanos Coffee odors
- Newby Island landfill
- NSR Offset Court Ruling
- Phillips 66
- Phillips 66 violations
- PSC permit
- Refinery air monitoring
- Refinery flaring rules
- Refinery incidents
- Republic composting
- Richmond car wrecking fire
- Richmond compost odors
- Rule 11-18
- Rule 12-16
- Shell flaring
- South Coast Reclaim program
- Spare the Air
- Sulfur smell in San Francisco
- Tesla expansion
- Title V
- Toxic thresholds
- Valero settlement
- Vineyard burning
- Wells Fargo connections
- Winter Spare the Air
- Wood burning
- Woodsmoke incentive

Media Highlights

The Air District and/or Spare the Air was mentioned in approximately 1,360 print/online stories and 632 video clips in the last quarter. Below are the last quarter's media coverage highlights:

- [**Vallejo Times Herald**: Update: Vallejo lifts shelter-in-place order, sheen found on water](#)
- [**KQED.org**: Officials Investigate Whether Phillips 66 Refinery Tied to San Pablo Bay Oil Spill](#)
- [**East Bay Times**: Coast Guard investigating Rodeo refinery tanker leak](#)
- [**Los Angeles Times**: Bay Area refinery shuts down operations after oil sheen is spotted in San Pablo Bay](#)
- [**KRON4.com**: Pittsburgh school district urges parents to turn off cars](#)
- [**ABC7News.com**: Spare the Air Alert in effect Monday](#)
- [**Patch.com**: Air District issues Spare the Air Smog Alert](#)

- [NBCBayArea.com: Unseasonably High Temperatures Set Records in Bay Area, Heat Advisory in Effect](#)
- [Napa Valley Register: Spare the Air alert, heat advisory called for Bay Area on Monday](#)
- [CaliforniaLandUseDevelopmentLaw.com: Bay Area Air Quality Management District's CEQA Guidelines on Pollution Impacts to Project Occupants and Users Are Invalid](#)
- [SFGate.com: Day 2 of Bay Area heat wave could topple more records](#)
- [East Bay Times: Spare the Air alert issued for Sunday](#)
- [East County Today: Pittsburg Unified School District Becomes First East Bay School District to Create "Idle Free Zones"](#)
- [San Francisco Chronicle: Fast-moving fire threatening homes in Santa Cruz Mountains](#)
- [Patch.com: Excessive Heat, Car Exhaust Prompts 'Spare the Air' Alert for East Bay](#)
- [SFGate.com: Day 2 of Bay Area heat wave could topple more records](#)
- [Marin Independent Journal: Marin feels 'toasty' temperatures, but no records](#)
- [Almanac News: Air quality district issues another Spare the Air alert for Tuesday](#)
- [San Francisco Chronicle: Loma Fire spreads in a remote community often visited by flames](#)
- [Pleasanton Weekly: Air district issues 3rd straight 'Spare the Air' alert for today](#)
- [Los Altos Town Crier: Heat wave exacerbates smog in Los Altos and beyond](#)
- [IndyBay.org: Milpitas Residents Say No to Urban Landfill Expansion](#)
- [Patch.com: Heat Wave Prompts Another 'Spare the Air' Alert in Redwood City](#)
- [San Francisco Chronicle: California leading nation, world, to a clean-energy economy](#)
- [NBCBayArea.com: Wildfire in Santa Cruz Mountains Prompts Evacuations, Threatens 300 Structures](#)
- [SFBay.ca: Evacuation orders lifted for Loma fire victims](#)
- [KRON4.com: Smoke Advisory for South Bay due to Loma Fire](#)
- [Santa Cruz Sentinel: UPDATE: Loma Fire stands 22 percent contained at 3,865 acres](#)
- [Patch: Loma Fire: Blaze Grows To 4,474 Acres With Containment at 66% \[LATEST\]](#)
- [NPR: After Record Heat, California Fires Burn Into The Fall](#)
- [PRNewswire.com: Annual youth conference encourages action for clean air](#)
- [MassTransit.org: Environmental Program for Youths Wins Statewide Award](#)
- [SanFrancisco.CBSLocal.com: Ocean Beach Bonfires To Be Prohibited From November To February](#)
- [East Bay Times: Sunday Streets Berkeley celebrates walking, skating, music, dance and play](#)
- [Daily Republic: Fairfield, Bay Area see 27th air quality warning of season](#)
- [Pleasanton Weekly: Record 26th 'Spare the Air' alert called for today](#)
- [East County Today: Spare the Air Alert Issued for Saturday in the Bay Area](#)
- [Mercury News: Bay Area sees record 26th Spare the Air alert issued for Saturday](#)
- [Napa Valley Register: Saturday is another Bay Area Spare the Air Day](#)
- [KRON4.com: Spare the Air Alert for Saturday, breaking record for alerts in a season](#)
- [Patch.com: Air District issues Spare the Air Smog Alert for TODAY](#)
- [Patch.com: Conference Coming Up For Pacifica, Area Teens Interested In Climate Change, Sustainability](#)
- [East Bay Times: Richmond: Environmental activist takes on Big Oil](#)
- [DanvilleSanRamon.com: Officials lift burn permit suspension in Contra Costa County](#)
- [San Francisco Chronicle: Valero refinery fined nearly \\$200,000 over Suisun Bay spill](#)
- [CalWatchdog.com: Fee increases at air quality regulator fund expensive trips and more while consumer costs increase](#)

- [Mercury News: Bay Area Bike Share to offer cash payments, reduced fares to low-income cyclists](#)
- [Napa Valley Register: Napa supervisors pass final Syar expansion approvals as lawsuit looms](#)
- [Patch.com: Your Input Sought On Proposed Rule For Toxic Emissions](#)
- [Napa Valley Register: Napa supervisors pass final Syar expansion approvals as lawsuit looms](#)
- [Patch.com: Your Input Sought On Proposed Rule For Toxic Emissions](#)
- [San Francisco Chronicle: Valero to pay \\$249,000 for Benicia refinery air violations](#)
- [Sonoma State Star: Electric charging stations being built near Green Music Center](#)
- [Ozy.com: Think China's Pollution Is Bad? Try Northern California](#)
- [San Francisco Chronicle: Why Bay Area's poorest, most polluted cities stand to lose grants](#)
- [Times Herald: Valero settles case with Bay Area Air Quality Management District](#)
- [KTVU: Summer Spare the Air season ends with record number of alerts](#)
- [Napa Valley Register: Record-breaking Spare the Air season ends](#)
- [Pleasanton Weekly: Spare the Air season ends with record number of alerts](#)
- [Patch.com: Bay Area Air District Scores \\$1.18 Million In New Grants](#)
- [Martinez Tribune: Valero to pay \\$249,000 in air quality violations](#)
- [Marin Independent Journal: Marin enters new season of fireplace restrictions](#)
- [Patch.com: Winter Spare the Air season begins November 1](#)
- [Napa Valley Register: New fireplace rules kick in with start of Winter Spare the Air season](#)
- [East Bay Times: Proposed air pollution rule could affect up to 1,000 Bay Area businesses](#)
- [ABC 7: New spare the air initiatives issued to protect Bay Area air quality](#)
- [Patch.com: Air District To Host Open Houses In San Jose, SF On Proposed Rule For Toxic Emissions](#)
- [Danville San Ramon: New wood-burning rules in effect as winter 'Spare the Air' season starts](#)
- [Almanac: New wood-burning rules as winter Spare the Air season starts](#)
- [East Bay Times: Fireplace installing and remodeling restrictions take effect](#)
- [Times Herald: Air district proposes toxics rule could affect 1,000 industries and businesses](#)
- [WaterOnline.com: Oil Refinery Spills Over A Million Gallons Of Industrial Wastewater Into Bay](#)
- [Mercury News: Milpitas: City report shows fewer odor complaints from earlier in the year](#)
- [Mercury News: Milpitas Letters to the Editor for Nov. 11:](#)
- [Kenwood Press: Open burning allowed with permits](#)
- [Los Altos Town Crier: Lehigh plant meeting scheduled tonight](#)
- [East Bay Times: Commentary: Port of Oakland expansion project must address pollution](#)
- [East Bay Times: Air board refrains from Wells Fargo business over bank account scandal](#)
- [Mercury News: Cupertino: Residents get update on Lehigh Cement Plant from Supervisor Simitian](#)
- [SFBay.ca: Marin Transit experiments with zero-emission buses](#)
- [KRON4.com: California State Sen. Steve Glazer to examine Wells Fargo's illegal practices in hearing](#)
- [Los Altos Town Crier: Annual public meeting on Lehigh draws sizable crowd](#)

- [Napa Valley Register: Our oaks, our children](#)
- [San Francisco China Press: Winter spare the air alert of the Bay area to start](#)
- [Marin Independent Journal: Marin communities asked to endorse refinery emissions caps](#)
- [Planetizen: Choking Air Pollution in Paris Prompts Driving Restrictions and Free Transit](#)
- [Press Release Point: U.S. EPA Awards \\$6.3 Million to Reduce Diesel Emissions in the Pacific Southwest](#)
- [SFGate.com: Lots of smoke, flames from junkyard fire in Richmond](#)
- [Marin Independent Journal: Marin fireplace users receive 1st burn ban of season](#)
- [San Francisco Chronicle: 1st Winter Spare the Air alert bans fireplace, wood stove Monday](#)
- [KQED: New Vallejo Mayor Wants Oil Industry to Pay for Air Monitors](#)
- [Mercury News: Season's first Spare the Air day declared for Monday](#)
- [SFGate.com: 1st Winter Spare the Air alert bans fireplace, wood stove Monday](#)
- [East Bay Times: Spare the Air: First alert of Winter Season issued](#)
- [Napa Valley Register: First winter Spare the Air burn ban declared for Monday](#)
- [San Francisco Chronicle: Richmond junkyard fire poses no major health issue, officials say](#)
- [ThePress: Winter spare the air alert in effect](#)
- [ABC7news.com: SPARE THE AIR ALERT IN EFFECT FOR MONDAY, TUESDAY](#)
- [NBCBayArea.com: Spare the Air Wood-Burning Ban Issued For Next 2 Days](#)
- [The Almanac: First winter 'Spare the Air' alert issued](#)
- [East Bay Times: Tuesday, Wednesday are 'Spare the Air' days in Bay Area](#)
- [San Francisco Examiner: First winter Spare the Air day issued](#)
- [East County Today: Winter Spare the Air Alert in Effect for Monday](#)
- [SingTaoUSA: 當局發首個「愛惜空氣日」警告](#)
- [ABC7news.com: Spare the Air Alert in effect for Tuesday, Wednesday](#)
- [Mountain View: Spare the Air alerts for Tuesday, Wednesday](#)
- [Daily Republic: Sooty air prompts 3 days of Solano air pollution alerts](#)
- [East Bay Times: Weather conditions mean 'Spare the Air' again on Thursday](#)
- [Marin Independent Journal: Spare the Air alert for Dec. 22](#)
- [San Mateo Daily Journal: Wood burning banned in Bay Area Thursday](#)
- [East County Today: Fourth Straight Spare the Air Alert Issued](#)
- [San Francisco Examiner: Bay Area air quality enforcers remind public to use fireplaces mindfully this holiday](#)
- [KQED: Shell's Martinez Refinery Sent Close to 20 Tons of Gas to its Flares During Monday Outage](#)
- [Times Herald: James Cisney: Drilling down on the Orcem facts](#)

Public Inquiries

Staff responded to the following phone calls and emails from the public:

Phone Calls 313

Community Events

10/7-10/9/2016	California Home, Garden and Design Show	San Jose
10/13-10/14/2016	Climate Forward Bay Area: A Leadership Forum	San Francisco
10/15/2016	Ashland Cherryland FamFest	Ashland
10/15-10/16/2016	Half Moon Bay Art and Pumpkin Festival	Half Moon Bay
10/16/2016	Sunday Streets, Excelsior	San Francisco
10/16/2016	WOBO Sunday Streets Berkeley	Berkeley
10/29-10/30/2016	San Jose Fall Home Show	San Jose
11/11-11/13/2016	SF Green Festival	San Francisco
11/13/2016	Sunday Streets, Embarcadero	San Francisco
12/3/2016	WSTA Door to Door	Cotati, Mtn.View
12/9/2016	WSTA Door to Door	San Mateo, Pittsburg
12/17/2016	WSTA Door to Door	Berkeley

Programs

Spare the Air Everyday

Spare the Air Everyday ads ran on Comcast, digital ads, and at gas stations. The Treasure Island banner remained on display through the end of the summer season.

Bike Outreach occurred October 4 at the Concord farmer's market.

A discount code for carpool apps, Carzac, Duet, Müv, and Scoop was promoted at STACommuteTips.org. Over 56,000 unique users visited the STACommuteTips.org site since the May 2016. In the same time period last year, 47,000 unique users visited the site.

Staff worked with contractors to develop the final report.

Staff worked with grant recipients and advertisers to gather specifications, finalize contracts, develop wrap images and work with agencies to wrap 4 Broadway Shuttle buses in Oakland and 7 wrapped LAVTA Wheels Buses in the Tri-Valley area. Buses were expected to be wrapped by early 2017.

Spare the Air Resource Teams

Over 5,000 Facebook impressions were recorded for the Facebook LIVE video of staff's interviews with school leaders, scholars and parents.

Winter Spare the Air

Contractors sent the Winter Spare the Air media recommendations to staff for review along with the final media buy package.

The Treasure Island banner was switched to the Winter Spare the Air campaign on November 1.

Contractors ran four themed posts weekly on the Winter Spare the Air social media pages: alerts, Wordless Wednesday, Wednesday Wisdom and Tuesday Tips.

Outdoor, online, streaming radio, print and transit Winter Spare the Air advertisements ran beginning in November, in addition to Spanish, Mandarin, Cantonese, Vietnamese and Tagalog in-language ads.

12 bike outreach events reached thousands of residents this quarter, from farmer's markets with 100 to 200 attendees as well as larger events like the Petaluma Veterans Day Parade that had more than 40,000 attendees.

Staff approved Winter Spare the Air door-to-door outreach locations in Berkeley, Pittsburg, Mountain View, Cotati and San Mateo. Originally scheduled from late November to early December, some dates were reschedule due to rain.

Door-to-door outreach resulted in 789 visited homes, 72 in-person surveys and 35 mailed surveys as of December 12.

Four Spare the Air Alerts were called this quarter. No exceedances were recorded.

Contractors set up a presentation in March to reveal the Winter Spare the Air and Spare the Air Every Day survey results.

Employer Program

Contractors tabled two events on behalf of the Employer Program; the North Bay Leadership Council hosted a luncheon on November 4 and the Best and Brightest Places to Work in San Francisco presented awards to outstanding employers on November 9.

Conferences and Workshops

275 people attended the **Climate Forward Bay Area: A Leadership Forum** on October 13 & 14, where they heard from speakers Mary Nichols, Dr. Chris Field, state Senator Fran Pavley, Cisco DeVries, Google's Brendan Harrington, Green For All's Vien Truong and keynote speaker Van Jones. Feedback from attendees was positive and generated thoughtful discussions.

Rule 11-18 Workshops

Staff assisted in securing venues, preparing materials and organizing a dry run for the series of 6 public workshops and 2 scoping meetings for Rule 11-18.

CAPCOA POC Conference

Staff hosted the quarterly conference of the CAPCOA Public Outreach Committee for two days. The itinerary included a legislative update, a Clean Air Plan update and an off-site tour of the GoMentum station in Concord.

Publications

Clean Air Plan

Staff worked with Envall Design and the Planning division to design imagery and layout the Clean Air Plan. The content was reviewed by Executive Management staff for final edits.

Staff also submitted the Clean Air Plan communications strategy to Executive Management staff for review.

Air Currents

Staff published the November 1 edition, which included stories on the governor's signing into law of the Commuter Benefits program and the series of workshops and open houses that will provide information on the Air District's new draft rule designed to reduce toxic health risks.

Videography/Photography

Staff presented the 25th Spare the Air Anniversary video at the October Public Engagement Committee meeting.

Staff began shooting footage for the Winter Spare the Air video and completed the Spare the Air Minute video, which was subsequently uploaded to the Spare the Air website and social media accounts.

Finally, videos of the three plenary sessions and the Van Jones keynote address from the Climate Forward Bay Area Summit were uploaded to YouTube and the files were linked to the Climate Summit website.

Social Media

Staff boosted the Facebook post about the Climate Forward Forum, which reached 910 users.

Staff kicked off the Winter Spare the Air campaign on Facebook and received mostly positive and supportive messages from other users.

The social media plan was edited to include feedback from social media savvy employees of various divisions. A letter was drafted to accompany the plan as it circulated for executive staff to review.

Posts about Winter Spare the Air alerts on Facebook each reached more than 3,300 Facebook users.

Staff worked with contractors to interview CPMC doctors for a podcast emphasizing the harmful effects of wood smoke on youth.

**COMMUNITY ENGAGEMENT DIVISION
J. ROGGENKAMP, DEPUTY EXECUTIVE OFFICER**

OUTREACH PROGRAMS***Spare the Air Youth***

- **Monday, October 3 – San Jose Green Vision Resource Team Meeting, Conference Call** – Staff attended the conference call and provided the Air District update. The team received an update on the Stop Junk Mail San Jose project, discussed the Green Commute Champions Program with San Jose City employees and brainstormed ways to expand the Green Commute Champions Program throughout the City of San Jose.
- **Tuesday, October 4 – Tri-Valley Resource Team Meeting, Pleasanton** – Staff attended the meeting and provided the Air District update. The team received an update on the outreach for the Idle Free Tri-Valley project, discussed the “Air Quality Impact Award” project to determine the winner and plan outreach for next year’s award cycle and brainstormed new team projects.
- **Monday, October 10, Thursday, October 13 and Monday, October 17 - Student Advisory Committee, Conference Calls** – YES Conference student planning committees

and subcommittees met by phone and discussed sponsorship and promotion opportunities for the 2017 YES Conference.

- **Wednesday, October 19** – Staff attended the Spare the Air Youth Technical Advisory Committee (STAY TAC) meeting to present information on the upcoming 2017 YES Conference, discuss the results from the STAY Regional Resources Survey and participate in Walt and Roll to School Day information sharing. The Spare the Air Youth Conference is scheduled for Saturday, February 25, 2017.
- **Wednesday, October 19** – Staff attended the California Transportation Commission’s meeting in San Jose to accept the 2016 Excellence in Transportation Award in the Public Awareness Campaigns category for the Spare the Air Youth program and 2016 YES Conference.
- **Wednesday, November 30** – Community Engagement staff met with MTC staff to discuss the future of the Spare the Air Youth program and upcoming program funding options.
- **Tuesday, December 6** – Staff along with MTC staff attended the Caltrans D4 Branch Chief’s meeting in Oakland to receive an award. Spare the Air Youth was the winner in the category of “Public Awareness Campaign” in the 2016 Excellence in Transportation Awards.
- **Tuesday, December 6** – Community Engagement staff met with MTC staff to discuss the 2017 YES Conference, logistics and planning.
- **Monday, December 5 and 12, Thursday, December 15** - Students involved as YES Conference Student Advisory Council members or YES Ambassadors met in their subcommittees and as a group by Google Hangout/conference call to discuss YES conference outreach and promotion as well as fund development/sponsorships.

Spare the Air Resource Team Meetings

- **Wednesday, October 12 – Meeting with Community Focus, Conference Call** – Staff met with the Spare the Air Resource Team facilitators to introduce the Community Engagement Team’s new Public Information Officer, Azibuike Akaba, to Community Focus staff. Community Focus staff provided Azibuike an overview of the Southern Alameda, Tri-Valley and Contra Costa Spare the Air Resource Teams.
- **Friday, October 14 – Sonoma County Resource Team Meeting, Santa Rosa** – Staff attended the meeting and provided the Air District update. The team received an update on the Go Sonoma website and Facebook page and brainstormed new team projects.
- **Monday, December 7 – San Jose Green Vision Resource Team Meeting, conference call** – Staff attended the San Jose Green Vision Resource Team Meeting and provided the Air District update. The team discussed the San Jose City Environmental Services Division, Catalogue Choice project to opt out the catalogues they do not need.

- **Friday, December 9 – Sonoma County Resource Team Meeting** – Staff attended and participated in the Sonoma County Resource Team meeting.
- **Saturday, December 17 – Spare the Air Door-to-Door Outreach, Berkeley** – Staff participated in door-to-door outreach for the Spare the Air Winter Season in Berkeley (Alameda County). Staff knocked on more hundred doors and spoke with at least 30 residents about the health impacts of wood smoke.
- **Wednesday, December 28 – Tri-Valley Spare the Air Resource Team** – has selected a recipient for the Air Quality Impact Award. The date for the press release has yet to be determined.

Community Meetings, Workshops and Site Visits

- **Monday, October 3 – Youth for a Cool Earth Meeting, San Jose** – Staff attended the Youth for a Cool Earth meeting hosted by Breathe CA of the Bay Area. Staff promoted the YES Conference, high school internships and the Air District’s Community Science grants. 25 students attended the event.
- **Monday, October 3 – Mamas Unidas Para Empleo Meeting, San Francisco** – Staff attended the Mamas Unidas Para Empleo/Mothers United for Employment meeting hosted by the Excelsior HUB in San Francisco. Staff discussed general Air District activities including STEM career pathways. 30 parents attended the event.
- **Monday, October 4 – Berkeley Technology Academy, Berkeley**– Staff met with Principal and Assistant Principal of Berkeley Technology Academy. Staff promoted the YES Conference, high school internships and the Air District’s Community Science grants.
- **Thursday, October 6 – Cumulative Impact Forum Follow-up / Community Stakeholder Meeting on Proposed Rule 11-18, Air District Offices** – Staff organized and facilitated the Community Stakeholder Meeting on Proposed Rule 11-18. Staff provided an overview of the rule and timeline and answered general questions about the rule. Approximately fifteen attendees participated remotely in the meeting and ten community representatives attended in person.
- **Tuesday, October 11 – Santa Clara Youth Commission, Santa Clara** – Staff attended the City of Santa Clara’s Youth Commission meeting and talked about the 2017 YES Conference. 12 Commissioners representing different middle and high schools in Santa Clara and 2 parents attended the meeting.
- **Tuesday, October 11 – Saratoga Youth Commission, Saratoga** – Staff attended the City of Saratoga’s Youth Commission meeting and talked about the 2017 YES Conference. 14 Commissioners representing different middle and high schools in Saratoga and 1 parents attended the meeting.
- **Wednesday, October 12 – Menlo-Atherton High School, Atherton** – Staff presented to three classes of AP Environmental Science classes at Menlo-Atherton High School. Staff

promoted the YES Conference, high school internships and the Air District's Community Science grants. 65 students were present.

- **Wednesday, October 12 – Strategic Incentives & Community Engagement Meeting, Air District Offices** – Staff met with Strategic Incentives Management about organizing Air District grant overview/update presentations to community groups and resource teams in late January.
- **Wednesday, October 12 – Community Science Ad Hoc Meeting, Air District Offices** – Staff convened staff from different divisions (planning and monitoring) as well as Community Science staff from EPA Region 9 to discuss potential collaboration on new air quality studies in the area, and ways to provide technical assistance to researchers and community members who are partnering and planning to apply for the Community Science Grant program.
- **Thursday and Friday, October 13 and 14 – Climate Forward Conference, San Francisco** – Staff attended the Air District's "Climate Forward Bay Area" Conference at the UCSF Campus in Mission Bay, San Francisco. Staff assisted with event logistics, attended various breakout sessions and addressed air quality issues.
- **Thursday, October 20 – Community Science Grant Program Workshop, Air District Offices** – Staff held a webinar and in-person meeting to give an overview of the Community Science Grant Program and answer any questions from researchers and community members who are partnering and planning to apply for the Community Science Grant program. 12 prospective applicants attended in person and 20 participated via phone/online.
- **Tuesday, November 29 – Proposed Draft Regulation 11, Rule 18 Workshop/Open House Debrief, Air District Offices** – Staff met to formally debrief on the past Rule 11-18 public workshops/open houses. Staff discussed meeting logistics, workshop attendees and necessary follow-up actions.
- **Tuesday, December 6 – East Oakland Boxing Association, Oakland** – Staff tables at and participated in town hall convening/listening session forum and discussed issues around community grants, green infrastructure support and general air quality issues.
- **Wednesday, December 7 – Vallejo Residents Meeting** – Staff met with a group of residents from Vallejo who are concerned about a proposed cement mill in their community (ORCEM Project).

- **Wednesday, December 7 and 14 – Proposed Draft Clean Air Plan/Regional Climate Protection Strategy Workshop/Open House Series, Air District Offices** – Staff met to formally discuss rule schedule, meeting logistics, workshop attendees and necessary follow-up actions.
- **Wednesday, December 7 – Teen Advisory Council Presentation, Sunnyvale** – Staff attended the City of Sunnyvale’s Teen Advisory Council meeting and presented information about the YES conference, high school internships and the Community Science Grants program. 12 students representing different Sunnyvale high schools were in attendance.
- **Wednesday, December 7 – Teen Leadership Council Presentation, San Rafael** – Staff attended the meeting of the Teen Leadership Council from Redwood, San Rafael and Drake High Schools in Marin County. Staff presented information about the YES conference, high school internships and the Community Science Grants program. 10 students and teachers were in attendance.
- **Monday, December 12 – Sustainable Silicon Valley Sponsorship Update** – Staff and our Executive Office met with representatives from Sustainable Silicon Valley to get an update about the 2016 Air District-funded project, and explore possibility of a next round of funding.
- **Tuesday, December 13 (or 12/20) – Rule 12-16 meeting with Community Based Organizations** – Staff worked to arrange a meeting with representatives from CBE, 350 Bay Area, Sunflower Alliance, Sierra Club, California Nurses Association, APEN, RPA, Greenaction, and others, to search for common ground on mutual goals, review staff’s analysis, and discuss potential implications of the recently released ARB Draft Scoping Plan for 2030.
- **Tuesday, December 13 – Terra Linda High School & Miller Creek Middle School, Marin County** – Staff presented information about general Air District programs and activities including the YES conference, RCPS, high school internships and the Community Science Grants program to two classes. 60 students and teachers were in attendance.
- **Thursday, December 15 – “Spare the Air, Cool the Climate” Messaging Meeting** – Staff met with Climate and Communications staff to plan a robust communication and messaging strategy for the upcoming Clean Air Plan/Regional Climate Protection Strategy – Spare the Air, Cool the Climate.
- **Thursday, December 15 – MTC, Strategic Incentives Division and Community Engagement Meeting** - Staff from the Air District’s SID and Engagement programs met with MTC staff to discuss potential avenues for collaboration.
- **Thursday, December 15 – Napa County Resource Conservation District Presentation, Napa** – Staff attended the meeting of the Napa County Resource Conservation District and presented information about general Air District activities,

including the YES conference, high school internships and the Community Science Grants program. 30 students and teachers were in attendance.

- **Friday, December 16** – Staff confirmed the Ground breaking Brookfield Elementary Urban Greening Project in East Oakland.
- **Monday, December 19** – Staff hosted a Community Science Working Group meeting to discuss the review of 10 community grants under review.
- **Monday, December 19** - Staff attended an EPA hosted Webinar entitled Effective Sound Wall Vegetation Combination.
- **Tuesday, December 20 – Rule 12-16 meeting with Community Based Organizations** - Staff worked to arrange a meeting with representatives from CBE, 350 Bay Area, Sunflower Alliance, Sierra Club, California Nurses Association, APEN, RPA, Greenaction, and others, to search for common ground on mutual goals, review staff's analysis, and discuss potential implications of the recently released ARB Draft Scoping Plan for 2030.
- **Tuesday, December 20** – Staff joined a conference call with South Coast AQMD staff to discuss their Community Engagement program. Both departments shared program strengths and weaknesses. Staff identified opportunities to collaborate on future programs.

Events

- **Saturday, October 15 – Half Moon Bay Art & Pumpkin Festival, Half Moon Bay** – Staff participated in the Half Moon Bay Pumpkin Festival next to the Family Stage and provided general air district information. Approximately 200 residents visited the Air District booth.

Tuesday, November 29 – Air District Career Fair – Staff attended the second annual Air District Career Fair and provided general information on the Community Engagement Office to prospective job candidates. Staff answered questions on the job descriptions, career backgrounds and daily office tasks. Approximately 100 attendees visited the Community Engagement table.

- **Saturday, December 3 – Spare the Air Door-to-Door Outreach, Cotati** – Staff participated in door-to-door outreach for the Spare the Air Winter Season in Cotati (Sonoma County). Staff knocked on a hundred doors and spoke with at least 30 residents about the health impacts of wood smoke.

Other

- **CalEnviroScreen 3.0 Community Engagement** – During this period staff met with Tom Addison to plan outreach to key communities no longer included in CalEnviroScreen in the Bay Area. The goal is to raise awareness about the importance of making sure the map/tool adequately reflects all disadvantaged communities.
- **Rule 11-18 Outreach Planning** – Community Engagement staff have been coordinating outreach efforts for Rule 11-18 throughout the Bay Area. Six open houses/workshops are

being planned for November 9-17. Staff from rule development, communications, engineering, compliance and enforcement and planning are playing roles in the outreach effort. Planning includes a risk communications training for all staff that will participate in public workshops.

- **CORO Fellow** – Community Engagement hosted a CORO Fellow during this reporting period. The Fellow, Monica Ayers, assisted Community Engagement with the Rule 11-18 outreach plan.
- **DRAFT CalEnviroScreen 3.0 Outreach** – Staff reached out to communities and local jurisdictions throughout the Bay Area to encourage submission of comment letters that highlight deficiencies with the draft tool used to identify disadvantaged communities in our region for the purposes of cap and trade investment funds.
- **Wednesday, November 30 – Interagency Public Information Officers Meeting** – Staff informally met with Public Information Officers from ABAG, BCDC and MTC to meet and discuss agency communications/outreach programs. Future meetings will include opportunities for joint collaboration.
- **Thursday, December 8 – Planning for International Visitor (Abu Dhabi)** – Staff met with Compliance and Enforcement Division staff about hosting delegates from Abu Dhabi for potentially two weeks mid-summer 2017.
- **Staff Recruitment** – Staff conducted interviews for the YES Conference high school intern position.
- **Staff onboarding** – Staff on boarded new acting staff for Public Information Officer.
- **Wednesday, December 28** – CEO Team held a meeting with the Planning Division to plan all of the logistics and content that will be presented at the Climate Action Plan Open Houses at the end of January 2017. There will be 8 Open Houses planned in Cupertino, Napa/ Yountville, Walnut Creek, Oakland, San Jose and San Francisco.

**PLANNING AND CLIMATE PROTECTION DIVISION
H. HILKEN, DIRECTOR**

Air Quality Planning

Staff continued to prepare the Draft 2017 Clean Air Plan (2017 Plan), including preparing the administrative draft for Executive review, preparing for upcoming public open houses, working with consultants to complete the draft EIR and draft socioeconomic report, convening a meeting with neighboring air districts to discuss the draft control strategy, and preparing noticing documents and website changes for the release of 2017 Plan. Staff participated in numerous meetings including: the Air & Waste Management Association's Air Toxics conference Air Toxics in California-2016 Update; US EPA's December 2016 webinar on the implementation of the 2015 Ozone National Ambient Air Quality Standards; a California Air Resources Board (CARB) workshop regarding strategies for meeting PM2.5 air quality standards in the San Joaquin Valley Air District; a CARB workshop on the Office of Environmental Health Hazard Assessment (OEHHA) new risk assessment guidelines and how various air districts throughout

California are implementing the new guidelines; a Strategic Growth Council workshop on Affordable Housing & Sustainable Communities Program: 2016 Lessons Learned; the Plan Bay Area 2040 Regional Advisory Working Group meeting; the California Air Pollution Control Officers Association (CAPCOA) Planning Managers Symposium; and a CAPCOA sponsored workshop on the NAAQS Exception Events Rule. Staff continues to work with MTC and ABAG staff on the air quality, energy and climate change sections of the 2040 Plan Bay Area Draft Environmental Impact Report. Staff provided a CEQA comment letter to: Valley Transportation Authority on the Draft Environmental Impact for the Mathilda Avenue Improvements at SR 237 and US 101 Project.

Research and Modeling Program

Staff participated in several meetings and conference calls with CARB, NOAA, US EPA, the US Forest Service, the National Park Service, and other participants of the California Baseline Ozone Transport Study (CABOTS) to develop a plan to analyze aerometric data collected during CABOTS and simulate ozone. Staff began work on preparing a 2016 modeling emissions inventory and meteorological inputs, which will be used in conjunction with air quality measurements made during CABOTS to assess the impact of long-range transport on Bay Area ozone and to improve background and boundary ozone estimates for use in air quality modeling in the Bay Area. Staff obtained ozonesonde data collected at Bodega Bay and Half Moon Bay during CABOTS and began analyzing them. Staff continued daily coordination with researchers at San Jose State University to perform ozonesonde measurements during high particulate matter (PM) days. Staff continued work to finalize the Multipollutant Evaluation Methodology document to support the 2017 Clean Air Plan. Staff continued work with UC Davis researchers to finalize a document on ultrafine PM modeling in the Bay Area and to update Bay Area ultrafine PM public health impacts estimates. Staff continued work to investigate the contribution of sea salt to PM_{2.5} concentrations in the Bay Area and presented research results at the EPA-sponsored CMAS Conference. Staff continued work on documenting carbon-14 measurements and analyses completed for the seven winter seasons from 2009 to 2015 to assess the contribution of wood burning to ambient PM. Staff continued work with Lawrence Berkeley Laboratory on measuring carbon-14 from elemental carbon from various sources.

Community Air Risk Evaluation (CARE)

Staff participated in meetings with CalEPA Secretary Matt Rodriguez and CalEPA staff to discuss a draft of CalEnviroScreen version 3, an updated version of CalEPA's tool for identifying disadvantaged communities, which has been used by CalEPA for prioritizing funding allocations. Staff also worked with MTC staff and community members and provided a comment letter and produced maps to support advocacy for revisions to CalEnviroScreen to better identify Bay Area disadvantaged communities. Staff participated in a Cumulative Impact Working Group Meeting, with members of the Bay Area Environmental Health Collaborative (BAEHC) and other community groups to discuss possible ways to further incorporate consideration of cumulative impacts into District programs. Staff attended a kick-off meeting with the San Francisco Planning Department, the San Francisco Department of Public Health, and their consultants to discuss updates to San Francisco Community Risk Reduction Plan (CRRP). Staff is working with UC Berkeley researchers and various San Francisco departments to assist in locating suitable locations to host UC Berkeley's low-cost air quality sensors for the BEACO2N (Berkeley Atmospheric CO₂ Observation Network) project the District is helping to fund. Staff attended a one-day conference titled "Air Toxics in California 2016 Update" sponsored by the Golden West Section of the Air & Waste Management Association. Staff hosted Dr. Edmund Seto from the

University of Washington who presented an update on air sampling research sponsored by the Health Effects Institute. Staff participated in a meeting on "Asthma and Absenteeism in Richmond" attended by representatives from the District, other agencies, academics, and health professionals. Staff provided technical assistance to Air District staff and local government staff on environmental review of various development proposals.

Emissions Inventories

To support the 2017 Clean Air Plan, staff completed updates to the District's greenhouse gas (GHG) forecast (1990 to 2050) that incorporates committed and expected federal, state, and local policies and regulations into GHG estimates. Staff held a kick-off meeting with Engineering Division staff to initiate development of an emissions inventory Quality Assurance Project Plan (QAPP). Staff received and reviewed a draft final report from UC Berkeley on findings of a study to evaluate the effectiveness of mitigation efforts aimed at drayage trucks serving the Port of Oakland. This study, co-sponsored by the District and the California Air Resources Board (ARB), measured truck exhaust plumes for drayage trucks to evaluate the effects of the final phase (Phase 2) of the Drayage Truck Regulation. Staff participated in a Bay Area methane and CO2 measurement study led by researchers at Harvard University and the Technical University of Munich, deploying solar-viewing spectrometers, which measure greenhouse gases through the depth of the atmosphere. Staff attended the annual American Geophysical Union's annual conference in San Francisco and presented a poster on the District's fixed-site GHG monitoring network. Staff met with the California Council for Environmental and Economic Balance (CCEEB) to discuss the District's GHG measurement program. Staff submitted 2015 facility risk prioritization scores to CARB as part of the annual emissions reporting cycle, a new requirement for reporting emissions. Staff attended an ARB webinar on their newly available Facility Emissions Visualization and Analysis Tool, which display both GHG and criteria pollutant emissions, per direction in Assembly Bill 197 (AB 197). Staff provided emissions data to support various rule development efforts.

Climate Protection Program

Staff continued to develop the draft 2017 Clean Air Plan/Regional Climate Protection Strategy (2017 Plan), including developing a new section describing a bold vision for the Bay Area, finalizing the draft document for Executive review, and preparing for upcoming public review and open houses. Staff met with stakeholder groups to discuss the 2017 Plan and its implementation (CCEEB, 350 Bay Area, Silicon Valley Leadership Group, BayREN). Staff continue to lead work on a rule that will limit greenhouse gases, particularly methane, from Natural Gas and Crude Oil Processing Facilities (amendments to Air District Rule 8-37). Staff worked with Measurement, Meteorology and Rules Divisions staff on fabricating and installing monitoring equipment into the GHG emission research van. Staff launched a study with UC Davis to conduct methane measurements via airborne "curtain flights" over Bay Area methane sources. Staff began working with ABAG's Bay Area Regional Energy Network program (BayREN), Bay Area Regional Collaborative (BARC) and staff from the California Energy Commission to launch a collaboration to develop and promote a model ordinance requiring solar PV installations on new residential construction for Bay Area local governments. Staff attended the CAPCOA Planning Managers Annual Symposium; staff facilitated a session at the Symposium of ARB staff to discuss the development of the upcoming AB 32 Scoping Plan Update. Staff participated in workshops and webcasts of various ARB working groups involved in developing ARB's Scoping Plan Update. Staff participated in the Air District's regional conference, "Climate Forward Bay Area" featuring speakers including Van Jones, Mary Nichols

and Fran Pavley. Staff served on the panel, “Technology and Energy: Generating Opportunities” at the Conference.

**STRATEGICS INCENTIVES DIVISION
K. SCHKOLNICK, ACTING DIRECTOR**

Carl Moyer Program (CMP)

- Staff worked with planning staff to expend \$472,262,700 in mitigation funds, from the Faria Preserve LLC project, to retire 436 light-duty vehicles through the District’s Vehicle Buyback Program, and submitted the final project report, 10/27.
- Staff sent out notifications to CMP project grantees that were selected for performance audits, 11/29.
- Staff conducted project audit inspections of VIP truck vendors, 12/30.
- Staff participated in the following outreach events:
 - Equipment vendor visits in Napa, Solano, and Contra Costa counties, 9/1.
 - Half Moon Bay Fish & Fleet Festival & the East Bay Home Show (Richmond), 9/18.
 - Rootstock Vineyard event in Napa, 11/8.
 - Sonoma County Farm Bureau meeting, 11/14.
- Staff participated in the following meetings:
 - Provided ARB input on proposed changes to the fiscal section of the CMP guidelines, 9/8.
 - CalStart webinar on EPA Heavy-duty Phase 2 Fuel Economy Rules, 9/9.
 - CAPCOA Mobile Source & Fuels committee meeting, 9/14.
 - CAPCOA Tactical Team conference call, 9/22.
 - IPI Off-Road Workgroup conference call with ARB and statewide air districts, 9/28.
 - ARB CMP guideline update meetings, 11/8, 11/10, 11/16, 11/22 & 12/6.
 - CAPCOA Grants Committee statewide conference call, 10/12 & 11/8,
 - Tactical meetings with air district and ARB staff, 10/6 & 10/13.
 - Provided input to ARB on the draft CMP guidelines for marine projects, 10/13.
 - Call with ARB regarding CMP guideline updates, 10/27.
 - ARB Public Workshop on the CMP guideline changes, 12/1.
 - One-day workshop with ARB’s IPI (Incentive Program Implementation) committee, CAPCOA and other air districts to finalize ARB staff recommendations for the public proposal of 2017 Carl Moyer Program Guidelines, 12/14.
 - National webinar hosted by Gladstein, Neandross & Associates and National Alternative Fuels Training Consortium about technology updates and benefits of using alternative fuels for first- and second-responder vehicles operating in emergency settings, 12/15.

Goods Movement Program (GMP)

- ARB approved the rank list for YR5 Cargo-Handling Equipment projects, 10/7.
- Staff submitted GMP semi-annual reports to ARB, 10/20.

- ARB approved the rank list for YR5 TRU projects and staff posted new rank lists on our website, 10/31.
- Staff submitted disbursement request to ARB for \$1,081,000 in YR 5 locomotive funding (9/7) and received \$940,000 for projects and \$141,000 for administration, 11/3.
- Staff executed contracts to replace one diesel forklift with an electric forklift, 11/21.
- Staff executed a grant agreement for up to \$2,966,000 to replace two switcher locomotives with two locomotives equipped with Tier 4 engines for Richmond Pacific Railroad. This project will reduce an estimated 3.1 tons of PM and 61 tons of NOx in the Richmond, CA CARE (Community Air Risk Evaluation Program) area and is co-funded by DERA (U.S. EPA), 12/19.
- Staff completed administrative steps to close the Year 2 funding cycle. Year 2 projects submitted annual reports for the last time (due 2/1/17). Since 2012, these projects have reduced an estimated 43.9 tons of PM and 1,253.86 tons of NOx emissions from California's trade corridors.
- Staff mailed 1,049 annual reports to YR2-5 projects; reports are due 2/1/17 & 12/30.
- YR5 - 20 small fleets completed truck replacement projects by the 12/31/16 deadline, 12/30.
- Staff participated in the following meetings:
 - Worked with ARB to finalize contract language for GMP Year 5 locomotive projects, 9/6.
 - Technical working group meeting with staff from the ARB and Port of Oakland, 9/7.
 - Two inter-agency coordinating meetings with MTC staff, Freight Corridors Partner Engagement (9/27) and [Bay Area] EV Efforts (9/28).
 - Port of Oakland technical working group discussion, 10/11.
 - Meeting with the Community Engagement staff (PIO) to explore and develop joint outreach activities, 10/12.
 - Conference call with stakeholders, including Port of Oakland and ARB, about Regional Risk Projections for 2015, 10/27.
 - Staff assisted ARB with the One-Stop (diesel reduction) event in Alameda CA, including a presentation about the Air District's incentive opportunities, 10/28.
 - Ports Equipment Technical Working group meeting, 11/10.
 - ARB webinar on transportation electrification barriers, 11/14.
 - Statewide Local Agency call with ARB and other air districts, 9/21, 10/20 & 11/16.
 - Statewide webinar by CA Trucking Assn. & SoCal Gas, to hear updates about low-NOx and RNG engine options and expected timelines for new truck technologies, 12/7.
 - Met with Sacramento and San Luis Obispo Air District staff regarding the CAPCOA GMP truck reuse proposal, 12/28.

Lower Emission School Bus Program (LESBP)

- Staff conducted post-inspections for 22 retrofit projects and 8 CNG tank replacement projects, 9/1-12/21

- Staff issued email updates to 274 school districts for ARB’s California School Bus Fleet Survey; the recently approved funding increase for CNG tank replacements; and the 10/28 ARB One-Stop Event in Alameda, 10/21.
- Staff executed grant agreements to replace CNG tanks on ten buses in Santa Clara and San Mateo Counties, 10/24 & 27.
- Staff submitted bus and equipment inventory data to CAPCOA for an ARB initiative to determine statewide demand for new buses, including alternative-fueled buses. The data was used for the ARB School Bus Public Workshop on November 4, 10/27.
- Staff participated in the following events:
 - Conference call with ARB to develop program changes for the Staff Report to CARB (January 2017 meeting), 10/13.
 - ARB public workshop/webinar on school buses, 11/4.
 - Conference call with ARB, CAPCOA, and local air districts to provide final input for the LESBP January Board presentation, 12/5.

Transportation Fund for Clean Air (TFCA)

TFCA County Program Manager: Staff sent the FYE 2018 Policies & Guidance and Expenditure Plan forms to all nine congestion management agencies, 12/19.

TFCA Regional Fund Program

- **FYE2016 Plug-in Electric Vehicle (PEV) Programs:** The Air District awarded approximately \$7.8 million to deploy over 1000 electric vehicle charging stations, 60 zero-emissions transit buses and heavy duty trucks, and 46 plug-in electric light-duty cars and motorcycles, 12/27.
 - EV Coordinating Council meeting was held on 9/26 and 69 stakeholders attended the meeting. Presentations included panel discussions on EV Shared Mobility Strategies, Funding Opportunities for EVs and Infrastructure and EV Outreach Events;
 - Staff attended the EV Council Steering Committee Meeting, 10/7.
 - Staff met with representatives from Kearns and West and MTC to prepare for EV Council meetings, 9/13, 9/14, 9/27, 10/11, 12/6.
 - Staff met with MTC staff to prepare for the West Coast Collaborative Partner Dialogue on Medium & Heavy-Duty Alternative Fuel Corridor Development, 9/27.
 - Staff attended West Coast Collaborative Partner Dialogue hosted by U.S. EPA Region 9 to discuss Medium & Heavy-Duty Alternative Fuel Corridor Development, 9/29.
 - Staff attended Around the World in 80 days on an Electric Motorcycle: “How Electricity and Technology are Reshaping Modern Mobility,” 10/7.
 - Staff attended the Climate Forward Bay Area: A Leadership Forum, San Francisco, 10/13-10/14.
 - Staff met with MTC staff to discuss the proposals for the installation of electric charging stations at the Bay Area Metro Center building, 11/14 & 11/29.
 - Staff attended a presentation on EV Charging & ADA Requirements, Palo Alto, 11/18.
 - The District hosted the California PEV Collaborative members’ meeting at the Air District’s headquarters, 11/30.

- Staff participated in ARB’s public workshop via webcast to discuss Volkswagen’s zero emission vehicle investment commitment, 12/2.
- Staff attended the NorthCAT advisory group to discuss the latest Center Development Plan, 12/12.
- Staff participated in a discussion to provide input on SF Environment’s efforts in updating building codes for EV readiness, 11/1.
- Staff teleconferenced with the California Hydrogen Business Council for their annual membership meeting, 12/13.
- Staff attended a webinar hosted by PG&E to discuss their pilot program to deploy charging stations and their new application to the California Public Utility Commission, 12/20.
- Staff met with representatives from WAVE to discuss their inductive charging system and explore potential grant funding opportunities, 12/20.
- **FYE 2017 Trip Reduction Program:** The Air District awarded approx. \$4,270,000 to support eight trip reduction (shuttle and rideshare service) projects, 12/27.
 - Staff attended the EasyMile/Shared Autonomous Vehicle project monthly meeting with Contra Costa Transportation Authority, Stantec, and other project partners, 9/22 & 10/27.
 - Staff attended the quarterly TDM Working Group & Ridesharing TAC meeting with MTC to discuss trip reduction efforts throughout the region, 10/20.

Wood Smoke Reduction Incentive Program:

- The Program began accepting applications on 8/26. As of 12/27, \$2.1 million in funding has been awarded to 994 projects. Of this funding, approximately \$1.5 million has been awarded to homeowners that meet one or more Highly Impacted Residence (HIR) criteria, including low income residents, residents who have a wood-burning device as their sole-source-of-heat, and residents whose home is located in an air-district designated high-wood smoke area. Staff is currently reviewing and processing waitlisted applications in the order they were received, along with new applications from residents that meet one or more HIR criteria, which are prioritized ahead of other waitlisted applications.
- Staff held meetings with Trinity, the developer of the online wood smoke grant production system, to discuss pre- and post-launch system performance, 8/24, 8/25, 9/6, 11/8 & 12/28.
- Staff participated in the CAPCOA Woodstoves Working Group meetings to discuss the Greenhouse Gas Reduction Fund and the Draft Woodstove Replacement Proposal for ARB, 10/25, 11/21.

Grant Development

- CEC Sustainable Freight Transportation Solicitation:
 - Staff participated in the Pre-Solicitation for Medium- and Heavy-Duty Advanced Vehicle Technologies of the Alternative and Renewable Fuel and Vehicle Technology Program, 9/30.
 - Staff held a conference call with representatives of Efficient Drivetrains, Inc. (EDI) to discuss submitting a proposal, 12/2.

- Commercial Lawn & Garden Equipment Exchange Program:
 - Staff sent a survey to grantees to evaluate the performance of the equipment received through the program, 9/1.
 - Inspections of equipment to be scrapped under the program began with inspections conducted for the City of Dublin and Dublin USD, 10/22.
 - Requested extension of NFWF grant to 6/30/2017 to expend the remaining \$2,463, 11/9.

- Goodwill Industries:
 - Staff received notice from ARB that the Goodwill Industries proposals submitted under the Zero-emission Truck and Bus solicitation will receive funding and the project will commence in early October 2016, 9/15.
 - Staff held a conference call with Goodwill Industries of San Francisco to discuss the schedule for the project, 9/26.
 - Staff submitted CEQA Notices of Exemption to the County Clerks of San Mateo and Marin Counties for posting, 11/18.
 - Received notice from ARB that they would like to work with the Air District to prepare a press release and conduct a media event to showcase the project after the grant agreement has been signed in mid-January, 12/8.

- DERA Tier 4 Locomotive Project:
 - Staff provided updated project and budget information to EPA for the project, 10/24.
 - EPA amended the grant award agreement with the Air District for the Tier 4 locomotive projects, 11/16.

- EFMP Plus-Up program:
 - Staff held conference calls with ARB staff on the EFMP Plus-Up program, 11/16 & 11/17.
 - Staff reviewed an early draft of the Air District's proposed EFMP Plus Up plan with ARB staff, 12/29.

- Zero-emission Drayage Truck Demonstration:
 - Staff met with SCAQMD staff to discuss contracting requirements for the project, 10/26.
 - Staff held a conference call with ARB staff to discuss the kick-off meeting for the project, 11/18.

- Staff participated in the following meetings:
 - Staff attended MTC's BAHA BUG Retrofit RFP extension workshop for potential interested applicants, 9/7.
 - Staff participated in the ARB technology symposium, Advanced Clean Cars: The Road Ahead, 9/27.
 - Staff met with Goodwill Greater East Bay to discuss electric vehicle funding to replace their conventional fleet, 10/4.
 - Staff presented comments on the revised ARB FY16/17 Low-Carbon Transportation plan to the ARB Board, 10/20.
 - Staff attended the Hydrogen and Fuel Cells in Ports Workshop held by the California Hydrogen Business Council in Long Beach, 11/10.

- Staff participated in the USEPA Webinar on the VW Partial Settlement, 11/18.
- Staff participated in ARB's Monthly Government H2 Update conference call, 12/1.
- Staff participated in the ARB workshop on the Fiscal Year 2016-17 Light-Duty Vehicle Equity Pilot Projects, 12/15.

General Outreach and Events:

- Staff attended a meeting with MTC and USEPA to discuss funding opportunities for the medium & heavy-duty alternative fuel infrastructure corridor initiative and MTC's existing clean transit, goods movement, and emission reduction efforts, 11/10.
- Staff attended the 2016 Dublin Chamber Oktoberfest Business Faire to promote grant funding opportunities, 11/3.
- Staff attended the ARB Zero-emission bus event in Walnut Creek celebrating the newly deployed electric GILLIG buses, 11/4.
- Staff met with representatives of Sonoma Technologies to discuss funding opportunities, and methods to improve efficiency of administering grants, 11/15.
- Staff attended a meeting to discuss funding opportunities for the Treasure Island project with MTC, San Francisco County Transportation Authority (SFCTA), Water Emergency Transportation Authority (WETA), and Stantec, 10/24.

<p style="text-align: center;">METEOROLOGY, MEASUREMENT & RULES DIVISION E. STEVENSON, DIRECTOR</p>

Air Quality

During the 4th quarter of 2016, there were two exceedances of the national 8-hour ozone standard, two exceedances of the State 8-hour ozone standard, and no exceedances of the State 1-hour ozone standard. Two summer Spare the Air Alerts were called on October 8th and 9th and exceedances occurred on both days. Inland temperatures were near 90°F and winds were light offshore. By mid-October, weak weather systems moved through northern California and the Bay Area transitioned into the winter particulate pollution season.

In November and December 2016, Winter Spare the Air Alerts were issued for December 19 through 22, when high pressure produced light winds, cold overnight temperatures, and limited vertical mixing. Despite this brief period of stagnation, there were no exceedances of the national 24-hour PM_{2.5} standard. Frequent storm systems moved through the Bay Area during November and much of December. This is similar to November and December 2015 when there were no days above the standard and frequent storms moved through the Bay Area. In contrast, there were 12 days above the standard in November and December 2013, which were dry and cold. During the 4th quarter, 18.42 inches of rainfall was recorded at Santa Rosa and there were 15 days at or below freezing. In contrast, during the same period in 2013, Santa Rosa only recorded 1.4 inches of rainfall and there were 24 days at or below freezing.

Air Monitoring

Thirty-three air monitoring sites were operational from October through December 2016. Six ozone-focused sites went on winter waiver in December, including Hayward, Fairfield, Los Gatos, San Martin, Gilroy, and San Ramon. At the new I-580 Near Roadway site located in Pleasanton, construction was completed, the trailer was installed, and electrical work neared completion. We expect Air Monitoring staff to begin installation of instrumentation at the I-580 site during the 1st quarter of 2017. Greenhouse gas (GHG) instrumentation was moved from Patterson Pass to the Livermore station. An external audit of the Air Districts 20-site Meteorology network was completed.

The Air Monitoring Section collaborated on a number of special projects. For example, Air Monitoring continued a project with UC Berkeley involving the collocation of small black carbon sensors with Air District run black carbon samplers at the Laney College and West Oakland sites and added a new collocation of these sensors at the Bethel Island site. The Air Monitoring Section cooperated with the Planning Section and researchers from Harvard to collocate specialized instrumentation with the Air Districts stationary GHG monitors.

A recruitment for an Air Quality Instrument Specialist was begun in June and will continue into the 1st quarter of 2017. This recruitment is to fill a vacancy due to retirement. A recruitment to fill a new position for a Staff Specialist was conducted and should be complete in the 1st quarter of 2017 as well.

Performance Evaluation

The Performance Evaluation Group conducted EPA-mandated performance audits at 29 Air District air monitoring stations, verifying 83 separate parameters during the 4th Quarter of 2016. The National Air Quality System Database was updated with all audit results.

Ground-Level Monitoring (GLM) audits of Hydrogen Sulfide (H₂S) and Sulfur Dioxide (SO₂) analyzers were conducted in the vicinity of Shell and Phillips 66 Refineries. Audits were performed at 10 GLM locations, and 13 gas analyzers were tested. All of the GLM gas analyzers tested met Air District's performance audit criteria.

Modifications to the Through-the-Probe (TTP) van are now complete. A new, ultra-stable carbon monoxide (CO) analyzer and newly designed sampling system have been installed. In-house evaluation of the van is complete and field auditing has been successfully completed at several sites. This van will use a new standard, more thorough auditing procedure by which all Air District air monitoring stations will be tested.

The EPA promulgated new quality assessment auditing guidance in April 2016. The new guidance is being reviewed to determine if changes to Air District auditing procedures are required or necessary.

Laboratory

During the fourth quarter, the laboratory weighing room returned to full functionality and all filter programs—including those that had been temporarily assumed by California Air Resources Board—were returned to the Air District lab.

In addition to routine, ongoing analyses, the laboratory performed 8 microscopy analyses in support of Compliance and Enforcement, participated in a voluntary evaluation of laboratory analysis organized by a fellow laboratory, and analyzed 10 samples associated with the Richmond Junkyard Fire in December.

Rule Development Program

Regulation 12, Rule 16: Petroleum Refining Facility-Wide Emissions Limits (Rule 12-16)

At the July 20, 2016, meeting, the Board of Directors directed staff to develop regulatory language that represents a proposal by Communities for a Better Environment (CBE) and their associates to limit emissions from petroleum refining facilities and three support facilities using specific numeric limits on GHG, particulate matter (PM), oxides of nitrogen (NOx) and sulfur dioxide (SO₂) at defined historic levels. Staff have been working closely with CBE to define their proposal and develop appropriately representative language. Staff's initial assessment, found in the workshop report, is that a rule based on this proposal would not be legally defensible. However, staff continues to evaluate the policy concept as directed by the Board.

Regulation 11, Rule 18: Reduction of Risk from Air Toxic Emissions at Existing Facilities (Rule 11-18)

Staff is also developing a rule that would significantly reduce toxic emissions from sources such as refineries, metal melting facilities, and stationary diesel generators. Rule 11-18 would apply to all facilities whose emissions of toxic air contaminants may result in a significant risk to nearby residents and workers. The purpose of Rule 11-18 is to set toxic air contaminant caps for those facilities causing the highest health impacts across the Bay Area, including refineries, and to require these facilities to reduce that health risk. At the direction of the Board, Rule 11-18 and Rule 12-16 are being reviewed in a combined EIR.

Key milestone during this quarter and earlier:

- August 19, 2016: Publication of draft Project Description for Notice of Preparation/Initial Study (NOP/IS) for the EIR.
- October 14, 2016: Publication of Draft Regulation, Final Notice of Preparation/Initial Study and Workshop Report
- November 2016: Workshops for Rule 11-18 held in six locations across the Bay Area
- December 2016: Comments received and initial tasks completed

Greenhouse Gas Rulemaking Efforts

Staff continues to work on rules to reduce emissions of methane, a powerful greenhouse gas. Staff is working with the Air Resources Board (ARB) and the California Public Utility Commission to limit methane leaks from PG&E natural gas distribution network. Staff is also working with ARB on a rule to reduce methane (and toxic and ozone precursor) emissions from oil and gas production wells and underground storage. In addition, staff is evaluating additional opportunities to reduce emissions from other methane sources such as landfills, composting facilities and capped oil and gas wells.

In addition to the effort to identify and limit methane emissions, staff worked on options for the Combustion Strategy during this quarter. The Combustion Strategy is a multi-pollutant effort to reduce carbon dioxide and associated pollutants through industry or source-specific rulemaking.

Clean Air Plan

Staff continues to refine control measures for the Clean Air Plan, including working with stakeholders to get their input and assisting with developing of the socioeconomic and environmental analyses of the plan.

Source Test

The Source Test Section continued participation in the Air District's Rule Development efforts on revisions to Regulation 6 and Regulation 12, Rule 15 (Refinery Emissions Tracking); as well as providing support formulating new methodology for evaluation of Heavy Liquid Service leaks.

Twenty-four Regulation 9, Rule 10 carbon monoxide (CO) source tests were done by the Air District's Continuous Emissions Monitoring (CEM) group: nine at Phillips 66, ten at Chevron, and five at Tesoro.

Evaluation of EPA's Method 201A and revisions to Method 202 for particulate particle size sampling continues. Evaluation of condensable emission profiles from all source categories is ongoing and continues.

Source Test staff continued development of sampling methodologies to quantify emissions of Heavy Liquid Fuels from refinery component leaks. Several sampling media and extraction components were evaluated and the final methodology is finalized.

The Source Test Section is assisting the Compliance and Enforcement and Engineering Divisions in establishing analytical criteria for evaluating CEM data of the mercury monitor at Lehigh, as well as evaluating performance specification tests performed at this site's new exhaust stack.

Source Test staff provided detailed input to revisions proposed by Rule Development for the Air Districts Manual of Procedures, Volume IV and Regulation 1 Rule 1.

Routine Source Test Sections duties continued which includes:

- Performance of CEM Field Accuracy Tests on monitors installed at large source emission points.
- Performance of source tests to determine emissions of precursor organic compounds, filterable particulate matter and toxic air contaminants.
- Performance of tests to assess the compliance status of gasoline cargo tanks, gasoline dispensing facilities, gasoline terminal loading and vapor recovery systems.
- Evaluation of independent contractor conducted source tests to determine report acceptability and source compliance.

- The Phillips 66 Rodeo Refinery’s open path monitor monthly reports for June, July, and August were reviewed.

STATISTICS

Administrative Services:

Accounting/Purchasing/Comm.

General Checks Issued	1,363
Purchase Orders Issued	361
Checks/Credit Cards Processed	4,169
Contracts Completed	63
RFP’s	2

Executive Office:

Meetings Attended	182
Board Meetings Held	3
Committee Meetings Held	9
Advisory Council Meetings Held	1
Hearing Board Meetings Held	0
Variances Received	2

Information Systems

New Installation Completed	8
PC Upgrades Completed	8
Service Calls Completed	866

Human Resources

Manager/Employee Consultation (Hrs.)	350
Management Projects (Hrs.)	400
Employee/Benefit Transaction	500
Training Sessions Conducted	3
Applications Processed	567
Exams Conducted	12
New Hires	9
Promotions	3
Payroll Administration (Hrs.)	600
Safety Administration	150
Inquiries	4,000

Facility/Vehicle

Request for Facility Service	190
Vehicle Request(s)/Maintenance	4

Compliance Assistance and Operations Program

Asbestos Plans Received	1,412
Coating and other Petitions Evaluated	7
Open Burn Notifications Received	434
Prescribed Burn Plans Evaluate	1
Tank/Soil Removal Notifications Received	13
Compliance Assistance Inquiries Received	63
Green Business Reviews	0
Refinery Flare Notifications	8

Compliance Assurance Program

Industrial Inspections Conducted	1,299
Gas Station Inspections Conducted	251
Asbestos Inspections Conducted	577
Open Burning Inspections Conducted	18
PERP Inspections Conducted	81
Mobile Source Inspections	488
Grants Inspections Conducted	232

Engineering Division:

Annual Update Packages Completed	983
New Applications Received	275
Authorities to Construct Issued	200
Permits to Operate Issued	440
Exemptions	2
New Facilities Added	108
Registrations (new)	37

Communications and Public Information:

Responses to Media Inquiries	69
Events staffed with Air District Booth	12

Community Engagement

Presentations Made	24
Visitors and Air District Tours	15/0

STATISTICS (CONTINUED)

Compliance and Enforcement Division:**Enforcement Program**

Violations Resulting in Notices of Violations	259
Violations Resulting in Notice to Comply	6
New Hearing Board Cases Reviewed	4
Reportable Compliance Activity Investigated	122
General Complaints Investigated	1,205
Smoking Vehicle Complaints Received	916
Woodsmoke Complaints Received	17
Mobile Source Violations	

Meteorology Measurements & Rules:**4th Quarter 2016 Ambient Air Monitoring**

Days Exceeding Nat'l 24-hour PM _{2.5} Std.	0
Days Exceeding Nat'l 24-hour PM ₁₀ Std.	0
Days Exceeding State 24-hour PM ₁₀ Std.	0
Days Exceeding the Nat'l 8-hour Ozone Std.	2
Days Exceeding the State 1-hour Ozone Std.	0
Days Exceeding the State 8-hour Ozone Std.	2

Ozone Totals, Year to Date 2016

Days Exceeding State 1-hour Ozone Std.	5
Days Exceeding Nat'l 8-hour Ozone Std.	15
Days Exceeding State 8-hour Ozone Std.	15

Particulate Totals, Year to Date 2016

Days Exceeding Nat'l 24-hour PM _{2.5} Std.	0
Days Exceeding the Nat'l 24-hour PM ₁₀ Std.	0
Days Exceeding State 24-hour PM ₁₀ Std.	0

PM_{2.5} Winter Season Totals for 2016-2017

Days Exceeding Nat'l 24-hour PM _{2.5} Std.	0
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4th Quarter 2016 Agricultural Burn Days

Oct.-Dec. Permissive Burn Days – North	68
Oct.-Dec. No-Burn Days – North	24
Oct.-Dec. Permissive Burn Days – South	73
Oct.-Dec. No-Burn Days – South	19
Oct.-Dec. Permissive Burn Days – Coastal	72
Oct.-Dec. No Burn Days – Coastal	20

Laboratory

Sample Analyzed	864
Inter- Laboratory Analyses	3

Technical Library

Titles Indexed/Cataloged	0
Periodicals Received/Routed	0

Source Test

Cargo Tank Tests Performed	25
Total Source Tests	95
Pending Source Tests	3
Violation Notices Recommended	19
Contractor Source Tests reviewed	3,794
Outside Test Observed	10
Violation Notices Recommended After Review	10

Continuous Emissions Monitoring (CEM)

Indicated Excess Emission Report Eval	26
Monthly CEM Reports Reviewed	121
Indicated Excesses from CEM	14

Ground Level Monitoring (GLM)

Oct.-Dec. Ground Level Monitoring SO ₂ Excess Reports	0
Oct.-Dec. Ground Level Monitoring H ₂ S Excess Reports	20

These facilities have received one or more Notices of Violations
Report period: October 1, 2016 – December 31, 2016

Alameda County

Status Date	Site #	Site Name	City	Regulation Title
11/2/16	Y4811	SFD	Castro Valley	Containment Requirement
11/2/16	Y4811	SFD	Castro Valley	Clean Work Site Requirement
11/2/16	Y4811	SFD	Castro Valley	On-Site Representative
11/2/16	Y4811	SFD	Castro Valley	Waste Disposal
10/5/16	Y4818	UA Theatre Demo	Emeryville	Reporting, Demolition and Renovation
10/5/16	Y4818	UA Theatre Demo	Emeryville	Reporting, Demolition and Renovation
10/26/16	E0197	True-Tech Corporation	Fremont	Failure to Meet Permit Conditions
10/6/16	A0255	Lawrence Livermore National Laboratory	Livermore	Failure to Meet Permit Conditions
10/4/16	B6988	Moz Designs	Oakland	Failure to Meet Permit Conditions
12/28/16	Y4739	Recipient	Hayward	Mandatory Burn Ban

Contra Costa County

Status Date	Site #	Site Name	City	Regulation Title
11/1/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Emission Monitor Periods of Inoperation
11/1/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Indicated Excess of Any Emission Standard
10/20/16	A2634	StoneMor California Subsidiary, Inc	Lafayette	Failure to Meet Permit Conditions
10/25/16	B9730	Mariposa Energy, LLC	Byron	Non-compliance, Major Facility Review
11/1/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Non-compliance, Major Facility Review
11/1/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Non-compliance, Major Facility Review
10/13/16	A0016	Phillips 66 Company - San Francisco Refinery	Rodeo	Non-compliance, Major Facility Review
10/13/16	A0016	Phillips 66 Company - San Francisco Refinery	Rodeo	Non-compliance, Major Facility Review
10/13/16	A0016	Phillips 66 Company - San Francisco Refinery	Rodeo	Non-compliance, Major Facility Review
12/21/16	Y4644	George F & Ruby Tellsworth	Alamo	Mandatory Burn Ban
12/28/16	V6958	Arsen Mikhailusta	El Sobrante	Mandatory Burn Ban
12/29/16	Y4677	Jason G & Patricia Arguello	El Sobrante	Mandatory Burn Ban
12/28/16	V6958	Arsen Mikhailusta	El Sobrante	Mandatory Burn Ban
12/30/16	Y4788	Mary Carpenter	Rodeo	Mandatory Burn Ban
12/30/16	Y4752	Kimberly M. Foster	Rodeo	Mandatory Burn Ban
12/28/16	Y4661	Miguel Cruz/ Cecilia Godoy	Rodeo	Mandatory Burn Ban
10/19/16	A0016	Phillips 66 Company - San Francisco Refinery	Rodeo	Equipment - Liquid Leak
11/15/16	A0581	ST Shore Terminals LLC	Crockett	Gasoline Cargo Tank Requirements
10/19/16	B2758	Tesoro Refining & Marketing Company LLC	Martinez	Gasoline Cargo Tank Requirements
10/19/16	A0061	Phillips 66 Company	Richmond	Gasoline Cargo Tank Requirements
11/28/16	V9349	Solano Valero	Concord	Phase II CARB Executive Order
12/21/16	A0011	Shell Martinez Refinery	Martinez	Emission Limitations for Sulfur Recovery Plants
10/19/16	A0016	Phillips 66 Company - San Francisco Refinery	Rodeo	Emission Limitations for Sulfur Recovery Plants
11/29/16	A0010	Chevron Products Company	Richmond	Operating Stationary Gas Turbine
10/19/16	A0016	Phillips 66 Company - San Francisco Refinery	Rodeo	

These facilities have received one or more Notices of Violations
Report period: October 1, 2016 – December 31, 2016

(continued)

Napa County

Status Date	Site #	Site Name	City	Regulation Title
10/27/16	A7412	Valley Auto Body	Napa	Permit to Operate
12/29/16	Y4774	Keith & Tureic Cordis	Angwin	Mandatory Burn Ban
12/30/16	Y4753	Wlises F Ramirez	Angwin	Mandatory Burn Ban
12/27/16	Y4641	Robert Soper	Angwin	Mandatory Burn Ban
12/29/16	Y4679	Larry & Beverly Jones	Angwin	Mandatory Burn Ban
12/29/16	Y4757	Richard D & Mary Lisa Hayman	Calistoga	Mandatory Burn Ban
12/29/16	Y4764	Martin E & Toni M Hunt	Calistoga	Mandatory Burn Ban
12/30/16	W3749	Recipient	Napa	Mandatory Burn Ban
12/29/16	Y4754	Christopher and Julie Anne Croley	Napa	Mandatory Burn Ban
12/30/16	Y4776	Resident	Saint Helena	Mandatory Burn Ban

San Francisco County

Status Date	Site #	Site Name	City	Regulation Title
11/10/16	E0555	Mercy Housing California	San Francisco	Permit to Operate
10/5/16	Y4129	Recology of San Francisco	San Francisco	Phase II CARB Certifications
11/2/16	X2639	Gas and Shop	San Francisco	Phase II Maintain Leak-Free & Vapor Tight

San Mateo County

Status Date	Site #	Site Name	City	Regulation Title
10/31/16	B8302	Gold Star Auto Body Shop, Inc	South San Francisco	Permit to Operate
12/30/16	Y4793	Harry Anderson	Atherton	Mandatory Burn Ban
12/30/16	Y4784	Brenda Y Geertsema	Pacifica	Mandatory Burn Ban
12/30/16	Y4747	Recipient	Pacifica	Mandatory Burn Ban
12/28/16	Y4658	Stephens Mark Whitney	So. San Francisco	Mandatory Burn Ban
10/5/16	Y4157	San Mateo Auto Services	San Mateo	Phase II CARB Certifications
10/5/16	Y4122	Pacifica Chevron	Pacifica	Posting of Operating Instructions
10/5/16	Y4157	San Mateo Auto Services	San Mateo	Posting of Operating Instructions
10/5/16	Y4157	San Mateo Auto Services	San Mateo	Record Keeping Requirements

These facilities have received one or more Notices of Violations
Report period: October 1, 2016 – December 31, 2016
(continued)

Santa Clara County

Status Date	Site #	Site Name	City	Regulation Title
10/11/16	P3703	Isotech Environmental	San Jose	Reporting, Demolition and Renovation
10/25/16	G9747	Nor-Cal Industrial Floors, Inc.	San Jose	Authority to Construct
10/31/16	B9055	The Ultimate Kitchen Finish Inc	Campbell	Permit to Operate
10/25/16	G9747	Nor-Cal Industrial Floors, Inc.	San Jose	Permit to Operate
10/6/16	Y4414	Chevron USA/Food Mart #0243	Santa Clara	Failure to Meet Permit Conditions
12/21/16	Y4636	Xiaohua Geng	Campbell	Mandatory Burn Ban
12/21/16	Y4635	Stephen & Harumi Bibby	Monte Sereno	Mandatory Burn Ban

Solano County

Status Date	Site #	Site Name	City	Regulation Title
11/18/16	A1665	Ardagh Metal Beverage USA Inc.	Fairfield	Violation of Permit Conditions
11/18/16	A1665	Ardagh Metal Beverage USA Inc.	Fairfield	Non-compliance, Major Facility Review

Sonoma County

Status Date	Site #	Site Name	City	Regulation Title
12/27/16	Y4660	Kevin Shaw	Sebastopol	Mandatory Burn Ban
12/21/16	Y4640	Recipient	Sebastopol	Mandatory Burn Ban
12/27/16	Y4659	Tim J & Shauna L Weber	Sebastopol	Mandatory Burn Ban
12/21/16	Y4639	Bob Kao	Sebastopol	Mandatory Burn Ban
12/27/16	W3334	Recipient	Graton	Mandatory Burn Ban
12/29/16	Y4772	Douglas M & Cheryl Anderson	Santa Rosa	Mandatory Burn Ban
12/21/16	Y4637	Ronald & Deborah Wheeler	Santa Rosa	Mandatory Burn Ban
12/27/16	Y4642	Pedro Cardona & Maria Cerda	Santa Rosa	Mandatory Burn Ban
12/29/16	Y4770	Hadley Julie/Quider Kevin	Santa Rosa	Mandatory Burn Ban
12/29/16	Y4680	Tony R Rafael	Santa Rosa	Mandatory Burn Ban
12/29/16	Y4678	Recipient	Santa Rosa	Mandatory Burn Ban
12/27/16	Y4660	Kevin Shaw	Sebastopol	Mandatory Burn Ban
12/27/16	Y4659	Tim J & Shauna L Weber	Sebastopol	Mandatory Burn Ban
12/21/16	Y4640	Recipient	Sebastopol	Mandatory Burn Ban
12/21/16	Y4639	Bob Kao	Sebastopol	Mandatory Burn Ban
12/28/16	W3502	Larry Paul Chiappellone	Sonoma	Mandatory Burn Ban
12/30/16	Y4778	Nicholas & Vina Leras	Windsor	Mandatory Burn Ban
12/21/16	Y4638	Robbin Cummins	Windsor	Mandatory Burn Ban
12/21/16	X0120	Mabel Jensen-Juncker	Windsor	Mandatory Burn Ban

**Closed Notice of Violations with Penalties by County
October 1, 2016 – December 31, 2016**

Alameda

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
Alameda Gas & Mart	Y2642	Alameda	\$1,000	2
All-Pro Reconditioning	Y1163	Dublin	\$500	1
Avis Rental Car	X7019	Oakland	\$1,000	1
Bluewater Environmental Services	G2645	San Leandro	\$500	1
Enviro 1st	W4150	Livermore	\$250	1
Environmental Remedies	Q5007	Pleasanton	\$3,500	1
Environmental Remedies Inc.	Y2986	Pleasanton	\$250	1
Environmental Remedies, Inc.	Q5172	Pleasanton	\$500	1
Fremont Gasoline	Y3435	Fremont	\$750	2
Gaylord's Caffe Espresso	E1279	Oakland	\$500	1
Hub Valero	L5772	Fremont	\$500	1
P. W. Stephens Environmental, Inc.	L6230	Fremont	\$10,500	4
Pacific Gas and Electric Company	A3164	Hayward	\$2,500	1
PW Stephens	Y0778	Hayward	\$500	1
Quik Stop #84	Y2672	Castro Valley	\$750	1
Raj Construction	R2625	Union City	\$4,000	2
Restoration Management Company	R2288	Hayward	\$3,000	3
Rutan Enviromental Safety Services	W8112	??	\$250	1
Sterling Environmental Corp.	Y3659	Oakland	\$750	1
Synergy Enterprises	L3268	Hayward	\$3,500	2

Total Violations Closed: 29

Closed Notice of Violations with Penalties by County
October 1, 2016 – December 31, 2016
(continued)

Contra Costa

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
Acme Fill Corporation	A1464	Martinez	\$10,000	1
Air Liquide Large Industries US LP	B7419	Rodeo	\$33,500	7
Bay Marine Boatworks, Inc	A7847	Richmond	\$550	2
Chevron Products Company	Y2653	San Ramon	\$2,250	2
Dow Chemical Company	A0031	Pittsburg	\$10,000	1
Kaiser Permanente	A8679	Richmond	\$250	1
Plant Hazardous Services	R1753	El Sobrante	\$1,000	1
Power Mart	V6811	Bethel Island	\$2,000	1
ST Shore Terminals LLC	A0581	Crockett	\$22,000	5
Woodmill Recycling Company	Y0599	Byron	\$250	1
Total Violations Closed:				22

Marin

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
City of San Rafael	Y2650	San Rafael	\$1,000	1
Mount Tamalpais Cemetery and Mortuary	A7831	San Rafael	\$1,500	1
Power Petroleum, LLC	Y2638	San Rafael	\$250	1
Unocal #255491	Y2659	San Anselmo	\$1,500	1
Total Violations Closed:				4

**Closed Notice of Violations with Penalties by County
October 1, 2016 – December 31, 2016
(continued)**

San Francisco

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
ARCO Facility #00566 - FELL ST SERV STN	Y2324	San Francisco	\$500	1
BMW of San Francisco	Y2679	San Francisco	\$1,000	2
Mack's Valet Cleaners	X9464	San Francisco	\$500	1
MGF Enterprise Inc dba Downtown	Y4160	San Francisco	\$2,500	1
Recology of San Francisco	Y4129	San Francisco	\$500	1
United Rentals Inc.	W9625	San Francisco	\$500	1

Total Violations Closed: 7

San Mateo

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
A1 Rentals Center	J3627	Redwood City	\$1,000	1
Ed Neale	Y3248	Burlingame	\$750	1
Fitzpatrick & Sons, General Contractors	W0474	San Carlos	\$1,500	1
G & G Greco #254519	Y2261	Belmont	\$1,500	1
Hillside Shell	Y3509	Daly City	\$500	1
KN Properties	L4516	Half Moon Bay	\$1,750	4

Total Violations Closed: 9

Closed Notice of Violations with Penalties by County
October 1, 2016 – December 31, 2016
(continued)

Santa Clara

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
Alliance Environmental Group, Inc.	Q8668	San Jose	\$500	1
Alum Rock Valero	Y2235	San Jose	\$3,000	1
American Gas & Oil Corporation	Y2675	San Jose	\$400	1
Conoco Phillips #255130	Y2626	Milpitas	\$500	1
Evergreen Valero	Y2647	San Jose	\$350	1
Green Gas Inc.	Y3045	San Jose	\$500	1
Hai Tung Nguyen #2611223	V1647	Milpitas	\$3,000	1
Los Gatos Union 76	X7694	Los Gatos	\$2,000	1
Lumentum Operations, LLC	A3418	San Jose	\$15,000	1
McKim Coporation	Y2975	Morgan Hill	\$400	1
Mountain View Flyers	Y2640	Mountain View	\$250	1
Performance Petroleum, Inc. - 76	Y2662	Santa Clara	\$500	1
Rebuild Green	V0408	Palo Alto	\$1,500	1
Tuff Shed	X6336	Milpitas	\$750	2
Vander-Bend Manufacturing	E3467	San Jose	\$1,000	2

Total Violations Closed: 17

Closed Notice of Violations with Penalties by County
October 1, 2016 – December 31, 2016
(continued)

Solano

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
Silcon Valley Shell	Y3497	Vallejo	\$250	1
Valero Benicia Asphalt Plant	A0901	Benicia	\$5,000	2
Valero Refining Company - California	B2626	Benicia	\$244,000	33
Total Violations Closed:				36

Sonoma

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
Bella Rosa Coffee Company	Y0766	Santa Rosa	\$1,500	2
Graphic Enterprises, Inc. dba: Chromagraphics	B6047	Santa Rosa	\$750	2
Radrods of Norcal	Y1170	Santa Rosa	\$250	1
Thomas Sean	X9028	Fulton	\$500	1
Total Violations Closed:				6

District Wide

Site Name	Site Occurrence #	City	Penalty Amount	# of Violations Closed
F.T.G. Construction Inc.	Y3496	Lodi	\$500	1
Flyers	X0866	Auburn	\$750	1
KAG West, LLC	N1032	West Sacramento	\$4,000	1
Total Violations Closed:				3

**Bay Area Air Quality Management District
Board of Directors**

LIST OF ACRONYMS

AA	Annual Average
AAMP	Ambient Air Monitoring Program
AB32	Assembly Bill 32 – Global Warming Solutions Act
Al	Aluminium
Al ₂ O ₃	Alumina (Aluminium Oxide)
AlF ₃	Aluminium Fluoride
AIRS	Aeromatic Information Retrieval System
AIRMoN	Atmospheric Integrated Research Monitoring Network
ALAPCO	Association of Local Air Pollution Control Officials
Aluminium Plant	Carbon Plant, Reduction Plant, Casthouse, Anode Service Area, and related utilities
Air District	Bay Area Air Quality Management District
AMTAC	ARB Air Monitoring Technical Advisory Committee
AMTIC	Air Monitoring Technology Information Center
ANPR	Advanced Notice of Proposed Rulemaking
APCD	Air Pollution Control District
APCO	Air Pollution Control Officer
API	American Petroleum Institute
APTI	Air Pollution Technology Institute
ARB	California Air Resources Board
ARM	Area Recognized Method
AQI	Air Quality Index
AQIS	Air Quality Instrument Specialist
AQS	EPA's Air Quality (data) System
AQRS	Air Quality Research Subcommittee
AQTA	Air Quality Technical Assistant
ARM	Approved Regional Method
ASA	Anode Service Area
ASP	Anode Service Plant
ASTCM	Astrodynamics Common
ASTM	American Society for Testing and Materials
AWMA	Air and Waste Management Association
BAAQMD	Bay Area Air Quality Management District
BAM	Beta Attenuation Monitor
BAM	Beta-Attenuation Metre
BAT(NEEC)	Best Available Techniques (Not Entailing Excessive Cost)
BC	Black carbon
BC	Background Concentration
BCP	Best Current Practice
BGI	BGI, Incorporated
BPT	Best Practicable Technology
BRC	Background Reference Concentration
bgl	Below ground level

BOD	Biochemical Oxygen Demand
BPEO	Best Practicable Environmental Option
BREF note	Best Available Techniques Reference Document
btc	Below top of casing
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
°C	Degrees Celsius
C	Carbon
CaO	Lime (calcium oxide)
CAA	(Federal) Clean Air Act
CAC	Correlating Acceptable Continuous (monitor)
CAIR	Clean Air Interstate Rule
CAP	Clean Air Plan
CARB	California Air Resources Board
CARE	Community Air Risk Evaluation
CASAC	Clean Air Science Advisory Committee
CAS	Chemical Abstracts Service (a chemical reference number)
CASTNET	Clean Air Status and Trends Network
CBSA	Core Based Statistical Area
CCC	Criteria Continuous Concentration
CCP	Carbon Crushing Plant
Cd	Cadmium
CD	Chart Datum
CDM	Clean Development Mechanism
CEM	Continuous Emissions Monitoring
CENR	Committee for Environment and Natural Resources
CEQA	California Environmental Quality Act
CEU	Continuing Education Unit
CFR	U.S. Code of Federal Regulations
CH ₄	Methane
Cl ⁻	Chloride(s)
CI	Confidence Interval
CMAQ	Community Model Air Quality (system)
CMC	Criteria Maximum Concentration
CN	Cyanide
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CoC	Chain of custody
COD	Chemical Oxygen Demand
COH	Coefficient of Haze
Cr(VI)	Chromium (hexavalent)
CREL	Chronic Reference Exposure Level
CRPAQS	Central Valley (California) Regional Particulate Air Quality Study
CRRP	Community Risk Reduction Program
CSN	Chemical Speciation Network
CSR	Corporate Social Responsibility
CV	Coefficient of variation
CWMP	Construction Waste Management Plan
CY	Calendar Year
Cu	Copper
DAS	Data Acquisition System

dB(A)	‘A’ weighted decibel noise level
dBL _{Aeq}	‘A’ weighted energy-equivalent decibel noise level
DC	Direct Current
DEARS	Detroit Exposure and Aerosol Research Study
DHS	Department of Homeland Security
District	Bay Area Air Quality Management District
DIV	Dutch Intervention Values
DMC	Data Management Center
DMS	Data management system
DNPB	2, 4-dinitrophenyl hydrazine
DO	Dissolved Oxygen
DOE	Department of Energy
DOI	Department of Interior
DQA	Data Quality Assessment
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DRI	Direct Reduction Iron
DTV	Dutch Target Values
DVM	Digital Voltmeter
EC	European Commission
EC/OC	Elemental carbon/organic carbon
EECS	Electrical Equipment Calibration Service (in Fremont, CA)
EI	Extrusion Ingots
EIA	Environmental Impact Assessment
EML	Environmental Measurements Laboratory
EMP	Environmental Management Plan
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction
EPS	Environmental Protection Standards
EQS	Environmental Quality Standard
ESAT	Environmental Services Assistance Team
ET	Enviro Technology
EU	European Union
F-	Fluoride(s)
FA	Foundry Alloy
FEM	Federal Equivalent Method
FLM	Federal Land Manager
FMP	Flare Minimization Plan
FRM	Federal Reference Method
FTP	Fume Treatment Plant
FY	Fiscal Year
g/s	Grams per second
GAO	General Accounting Office
GC	Gas Chromatograph
GC-MS	Gas Chromatography-Mass Spectrometry
GDP	Gross Domestic Product
GHG(s)	Greenhouse Gas(es)
GIS	Geographical Information System
GLM	Ground Level Monitoring
GMW	General Metal Works (PM ₁₀ sampler manufacturer)

GPS	Global Positioning System
GWP	Global Warming Potential
H ₂ S	Hydrogen sulfide
HAL 275	Norsk Hydro Reduction Technology
HAP	Hazardous Air Pollutants
HAZID	Hazard Identification
HC	Hydrocarbon
HCl	Hydrogen chloride
HEI	Health Effects Institute
HF	Hydrogen fluoride
HPLC	High Performance Liquid Chromatograph
HSE	Health, Safety and Environment
HTM	Heating Transfer Medium
Hydro	Norsk Hydro ASA
IACET	International Association for Continuing Education and Training
IADN	Interagency Deposition Network
IC	Ion Chromatography
ICR	Information Collection Request
IEA	Initial Environmental Authorization
IFC	International Finance Corporation
ILSC	Indicative Levels of Serious Contamination
IMPROVE	Interagency Monitoring of Protected Visual Environments
IPP	Independent Power Producer
ISQG	Interim Sediment Quality Standard
ISR	Indirect Source Rule
ITEP	Institute of Tribal Environmental Professionals
ITT	Information Transfer Technology
JV	Joint Venture
K	Kelvin
K	Thousand
km	kilometer
kV	Kilovolt
kt/yr	Thousands of tons per year
kPa	Thousand Pascal
l	Litre
LC-50	Lethal Concentration of a chemical which kills 50% of a sample population
Leq	Unweighted energy-equivalent noise level
LCS	Laboratory Control Sample
LDAR	Leak Detection and Repair
LLD	Lower Limit of Detection
LNB	Low NO _x Burner
LOD	Limit of Detection
LOQ	Limit of Quantitation
lpm	Liters per minute
l/s	Litres per second
L _{WA}	'A' weighted sound power level
M	Million
m	Metre
m/s	Metres per second

m ³ /s	Cubic metres per second
MAC	Maximum Allowable Concentration
MANE-VU	Mid-Atlantic/Northeast Visibility Union
MDL	Method Detection Limit
MDN	Mercury Deposition Network
MEI	Ministry of Energy and Industry
MET/PE	Meteorology and Performance Evaluation
mg/kg	Milligrams per kilogram
mg/l	Milligrams per litre
mg/m ³	Milligrams per cubic metre
mg/Nm ³	Milligrams per normal cubic metre (i.e. expressed at 273K and 101.3 kPa); in the case of gas turbines, gas volumes in units on “Nm ³ ” are also expressed as dry gas, at 15% O ₂ .
MHWTC	Mesaieed Hazardous Waste Treatment Centre
MIC	Mesaieed Industrial City
ml	Millilitre
MMAA	Ministry of Municipal Affairs and Agriculture
MMWDS	Mesaieed Municipal Waste Disposal Site
MPA	Maximum Permissible Addition
MPC	Maximum Permissible Concentration
MQA	Meteorology and Quality Assurance
MS	Matrix spikes
MSm ³	Million standard cubic metres
MW	Megawatts
MWe	Megawatts electrical (electrical output)
MWth	Megawatts thermal (thermal input)
N	Nitrogen
NAAQS	National Ambient Air Quality Standard
Na	Sodium
NAAMS	National Ambient Air Monitoring System
NAATS	National Ambient Air Toxics Sites
NACAA	National Association of Clean Air Agencies
NADP	National Atmospheric Deposition Program
NAMS	National Air Monitoring Station
Na ₃ AlF ₆	Cryolite
NaCl	Sodium chloride (salt)
NAPAP	National Acid Precipitation Assessment Program
NARSTO	North American Research Strategy for Tropospheric Ozone
NAS	National Academy of Science
NASA	National Aeronautics and Space Agency
NATTS	National Ambient Toxic Tends Stations
NAU	Northern Arizona University
NCore	The National Core Monitoring Network
NDIR	non-dispersive infrared
NDUV	Non-dispersive ultraviolet
NEC	No Effect Concentration
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NGO	Non-Governmental Organizations
Ni	Nickel
NILU	Norwegian Institute for Air Research

NISO	North Isomax
NIST	National Institute for Standards and Technology
Nm ³	Normal cubic metre (i.e. expressed at 237K and 101.3 kPa); in the case of gas turbines, gas volumes in units of “Nm ³ ” are also expressed as dry gas, at 15% O ₂ .
Nm ³ /s	Normal cubic metre per second (i.e. expressed at 237K and 101.3 kPa); in the case of gas turbines, gas volumes in units of “Nm ³ ” are also expressed as dry gas, at 15% O ₂ .
NMHC	Non-Methane Hydrocarbons
NMSC	National Monitoring Strategy (or Steering) Committee
NMVOC	Non-Methane Volatile Organic Compounds
N ₂ O	Nitrous Oxide
NO _y	Odd Nitrogen
NIOSH	National Institute for Occupational Safety and Health
NIST	National Institute of Standards and Technology
NO	Nitrogen monoxide/Nitric oxide
NO ₂	Nitrogen dioxide
NO _x	Oxides of nitrogen
NOAA	National Oceanic and Atmospheric Administration
NMHC	Non-methane hydrocarbon
NMOC	Non-methane organic carbon
NO _x /NO _y	Nitrogen Oxides
NPAP	EPA National Performance Audit Program
NPEP	National Performance Evaluation Program
NPS	National Parks Service
NTN	National Trends Network
NTU	Nephelometric Turbidity Units
NVLAP	National Voluntary Laboratory Accreditation Program
O ₂	Oxygen
O ₃	Ozone
OAP	Office of Atmospheric Programs
OAQPS	Office of Air Quality Planning and Standards
OAR	Office of Air and Radiation
OC	Organic Carbon
OC/EC	Organic carbon/elemental carbon
ODAMN	Operations Data Action Monitoring Notification
OEHHA	Office of Environmental Health Hazard Assessment
OEI	Office of Environmental Information
ORD	Office of Research and Development
ORIA	Office of Radiation and Indoor Air
P	Phosphorous
P	Power
PAHs	Polycyclic Aromatic Hydrocarbons
PAMS	Photochemical Assessment Monitoring Stations
Pb	Lead
PBMS	Performance-Based Measurement System
PBT	Persistent Bioaccumulative Toxics
PCBs	Polychlorinated Byphenyls
PCC	Petrochemical Complex
PE	Performance Evaluation

PEP	Performance Evaluation Program
PEL	Probable Effect Level
PFC	Polyfluorocarbons
PM	Particulate matter
PM ₁₀	Particulate matter with mean aerodynamic diameter of 10 microns
PM _{2.5}	Particulate matter with mean aerodynamic diameter of 2.5 microns
PM _{10-2.5}	PM ₁₀ minus PM _{2.5}
PO	Purchase Order
POCP	Photochemical Ozone Creation Potential
POP	Persistent Organic pollutants
ppb	Parts per billion
PPAH	Pollution Prevention and Abatement Handbook
ppb (v)(w)	Parts per billion (volume) (weight)
ppm (v) (w)	Parts per million (volume) (weight)
ppt (v) (w)	Parts per thousand (volume) (weight)
PQAO	Primary Quality Assurance Organization
PSD	Prevention of significant deterioration
QA	Quality Assessment
QAFAC	Qatar Additives Company
QAFCO	Qatar Fertiliser Company
QASCO	Qatar Steel Company Ltd
Qatalum	The Hydro/QP Aluminium and Power Plant Project
QAPP	Quality Assurance Project/Program Plan
QC	Quality Control
QEWG	Qatar Electricity and Water Company
QMP	Quality Management Plan
QNHD	Qatar National Height Datum (QNHD is ~1.3 m above Chart Datum)
QP	Qatar Petroleum
RADM	Regional Acid Deposition Model
RCA	Reportable Compliance Activity
RCEP	Royal Commission on Environmental Pollution
REL	Reference Exposure Level
REM	Regional Equivalent Monitor
RO	EPA Regional Office
ROG	Reactive Organic Gases
ROM	Regional Oxidant Model
ROPME	Regional Organisation for Protection of the Marine Environment
RPO	Regional Planning Organization
RTD	Resistance Temperature Detector
RTP	Research Triangle Park (North Carolina)
RTI	Research Triangle Institute, a research/consulting company
RTO	Regenerative Thermal Oxidiser
S	Sulphur
S&T	Science and Technology
SAB	Science Advisory Board
SAMWG	Standing Air Monitoring Work Group
SAP	Socio-Economic Action Plan
SASP	Surface Air Sampling Program
SARC	Scientific and Applied Research Centre
SB 375	Sustainable Communities and Climate Protection Act of 2008

SCAQMD	South Coast Air Quality Management District
SCENR/SCE	Supreme Council for the Environment & Natural Reserves
SIP	State Implementation Plan
SISO	South Isomax
SLAMS	State or Local Air Monitoring Station
SLTs	State, Local, and Tribal air monitoring agencies
SO ₂	Sulfur dioxide
SOP	Standard operating procedure
SPL	Spent Potlining
SPM	Special Purpose Monitor
SRP	Standard Reference Photometer
SS	Supersite
SSEIA	Scoping Study for Environmental Impact Assessment Report
STAG	State and Tribal Air Grant
STAPPA	State and Territorial Air Pollution Program Administrators
STN	Speciation Trends Network
Strategy	The National Air Monitoring Strategy
SVOC	Semi-Volatile Organic Compound
SWS	Seawater Scrubber
t/d	Tonnes per day
t/h	Tonnes per hour
t/yr	Tonnes per year
TAMS	Tribal Air Monitoring Support (Center)
TAD	Technical Assistance Document
TAR	Tribal Authority Rule
TBD	To Be Determined
TECO	Thermo Electron Corporation, now Thermo Fisher Scientific
TEOM	Tapered Element Oscillation Monitor
THC	Total hydrocarbons
TIP	Tribal Implementation Plan
TNMHC	Total non-methane hydrocarbons
TNMOC	Total non-methane Organic Compound
TOC	Total Organic Carbon
TOM	Total Organic Matter
Tpd	Tons per day
TPH	Total Petroleum Hydrocarbons
TPY	Tons Per Year
TSA	Technical systems audits
TSD	Technical Services Division
TSP	Total suspended particulates
TSS	Total Suspended Solids
T-REX	Traffic Related Exposure Study
TWA	Time Weighted Average
UAM	Urban Airshed Model
UFP	Ultrafine Particulate Matter
UN	United Nations
UNEP	UN Environmental Program
USB	Universal Serial Bus
US EPA	United States Environmental Protection Agency
UV	Ultraviolet

VDC	Vertical Direct Chill (Casting Machines)
VOC	Volatile Organic Compounds
WB	World Bank
WBT	Wet Bulb Temperature
WB PPAH	WB Pollution Prevention and Abatement Handbook
WHO	World Health Organization
WMP	Waste Management Plan
XML	Extensible Markup Language
ΔT	Temperature differential
$\mu\text{g/l}$	Microgrammes per litre
$\mu\text{g/m}^3$	Micrograms (one millionth of a gram) per cubic metre
μm	Micrometers
$\mu\text{M/l}$	Micromoles per litre

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 24, 2017

Re: Consider Authorization to Execute Contract Amendments for My Air Online
Development Services in Amounts in Excess of \$100,000

RECOMMENDED ACTION

Recommend the Board of Directors authorize the Executive Officer/APCO to execute contract amendments with the following vendors in the amounts listed below:

Vendor	Amount	Service Description
C&G Technology Services	\$155,616	Software testing services for the permitting and compliance systems software.
Clearsparc, Inc.	\$554,720	Software architecture, design, development, build and release management services.
ITDependz	\$189,010	Business analysis, software development, automated testing and quality assurance services related to the implementation of Production System and registration software.
SoftwareOne	\$23,729	SoftwareOne is a Microsoft authorized reseller of Azure cloud services.
TOTAL	\$923,074	

BACKGROUND

The My Air Online Program, part of the Executive Office, focuses on improving internal efficiency and the level of service that the Bay Area Air Quality Management District (Air District) provides to the general public, scientific community and to regulated businesses through the implementation of web, mobile and data technologies.

Air District staff is recommending semi-annual contract amendments for vendors assisting with the development of the permitting and compliance systems of the My Air Online Program in order to meet the fiscal year end 2017 goals.

DISCUSSION

In the 2017 calendar year, the My Air Online Program aims to complete the following:

- Online processing and mobile inspections for asbestos renovation and demolition jobs
- Dispatch and mobile investigation of air quality complaints
- Enforcement action processing & mutual settlement
- Design for refinery emissions inventory reporting and validation

In order to continue progress on the Permitting & Compliance System portion of the My Air Online program, staff is recommending the continued use of proven vendors’ familiar with Air District systems for the first half of Fiscal Year End (FYE) 2017. The Air District has used these firms to assist with the design, development and testing of the permitting and compliance software systems, and they have performed well.

Vendor	Type of Services	Initial Contract	Procurement Method
C&G Technology Services	Software development and testing services for permitting and compliance systems software.	FYE 2013	Selected the firm and resources through an informal bid process.
Clearsparc, Inc	Software architecture, design, development, build and release management services for permitting and compliance systems software.	FYE 2015	Request for Qualifications (RFQ). One of three firms to respond. Had staff expertise and availability to perform the required scope of work.
ITDependz	Business analysis, software development, automated testing and quality assurance services for permitting and compliance systems software.	FYE 2010	Selected the firm and resources through an informal bid process.
SoftwareOne	The Districts longstanding Microsoft authorized reseller (Compucom) was acquired by SoftwareOne.	FYE 2016	Microsoft requires that all software and service purchases be conducted by a designated authorized reseller.
Scope: Support for online radio telephone operations, medium and large complex facility permit processing.			
NB. Contracts for the My Air Online program are currently reviewed in six-month increments, and request board authorizations for extensions as needed. These requests typically are accompanied with a My Air Online status update to the Executive Committee and/or full Board. We anticipate a request for additional authorizations in approximately six months, which will be accompanied with another status update.			

BUDGET CONSIDERATION/FINANCIAL IMPACT

Funding for the vendor contract recommendations is included in the FYE 2017 budget will be funded from the My Air Online Program (#125).

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jaime A. Williams
Reviewed by: Damian Breen

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Report of the Advisory Council Meeting of February 6, 2017

RECOMMENDED ACTION

The Advisory Council (Council) received only informational items and have no recommendations of approval by the Board of Directors (Board).

BACKGROUND

The Council met on February 6, 2017 and discussed the following items:

- A) Advisory Council Deliberation on the Key Question
- B) Presentation on Regulation 13, Rule 1: Refinery Carbon Intensity Cap
- C) Advisory Council Deliberation on the Draft 2017 Clean Air Plan/Regional Climate Protection Strategy

Director/Ex-Officio Advisory Council member, Rod Sinks, will provide an oral report of the Council meeting to the Board of Directors.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

Attachment 10A: 2/6/17 – Advisory Council Meeting Agenda #5
Attachment 10B: 2/6/17 – Advisory Council Meeting Agenda #6
Attachment 10C: 2/6/17 – Advisory Council Meeting Agenda #7

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Stan Hayes and Members
of the Advisory Council

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 24, 2017

Re: Advisory Council Deliberation on the Key Question

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

The Council will continue its discussion on the first key question regarding the efficacy of Greenhouse Gas (GHG) caps for local refineries, considering information provided to date. The Council will review a summary of their prior deliberations and opinions. The Council will consider finalizing its opinion on the question.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jeff McKay

Attachment 5A: Draft Bay Area Air Quality Management District Advisory Council Efficacy of Greenhouse Gas Caps on Bay Area Refineries

BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADVISORY COUNCIL EFFICACY OF GREENHOUSE GAS CAPS ON BAY AREA REFINERIES

KEY QUESTION BEFORE THE COUNCIL

Air District staff asked the Advisory Council to consider the following question:

“What is the efficacy of imposing greenhouse gas caps on Bay Area refineries?”

PREAMBLE

While the key question focuses on refinery greenhouse gas (GHG) emissions and global climate change, the Council recognizes that there are also community concerns about the effects of refinery toxics and criteria pollutant emissions on health risk, particularly near refineries. We view both climate and health risk considerations as crucially important, and the Council’s opinions are meant to address both.

With respect to climate, we conclude that refinery GHG caps are unlikely to be effective in mitigating global climate change. That conclusion, however, is not an endorsement of inaction. The Council strongly supports coordinated climate protection efforts by the Air District, CARB, USEPA, and others, and the Council views as urgent further efforts by all to take effective steps toward climate protection.

With respect to health risk, we conclude that toxics and criteria pollutant health risk are most effectively addressed directly, through established health-based programs and measures such as draft rule 11-18, rather than indirectly as co-benefits of GHG reduction policies.

CONCLUSIONS

Based on the material that it has considered, its deliberations, and its collective expertise and experience, the Council has reached the following conclusions:

- Conclusion on Key Question: The Council concludes that facility-level caps on Bay Area refinery GHG emissions are unlikely to be effective in mitigating global climate change. GHG reduction policies are effective in providing climate protection only if total global GHG emissions are reduced, and if leakage occurs (that is, GHG emissions are shifted outside of the Bay Area to other locations instead of being reduced), which is likely with refinery GHG caps, such caps would not provide such protection.
- Policy Recommendation: The Council recommends that the Air District identify, systematically evaluate, prioritize, and adopt Bay Area GHG reduction policies and measures, including ones directed at refineries as appropriate, that are effective in reducing total global GHG emissions, minimize leakage risk, and complement and reinforce GHG reduction measures adopted by CARB (e.g., GHG cap-and-trade and methane reduction programs), USEPA, and others.
- Policy Recommendation: The Council recommends that the Air District address community concerns about toxics and criteria pollutants directly, through established programs, rather than indirectly as co-benefits of GHG reduction policies. The approach embodied in proposed rule 11-18 is consistent with this recommendation.

GUIDING PRINCIPLES

The Council has developed the following guiding principles that it regards as useful when evaluating the efficacy of Refinery GHG caps:

1. Clear goals: The Air District should state its goals clearly. If the goal of a proposed GHG reduction measure, such as a Refinery GHG cap, is climate protection, then that goal should be explicitly stated. If toxics reduction is the goal, that should be stated. If, instead, the goal is to limit or reduce the amount or nature of crude throughput at Bay Area refineries, that is a different goal, and should be clearly stated.
2. Systematic evaluation of policies to ensure that they support the goals: The Air District should align its policies, including refinery-related GHG measures, with its goals and ground them in plausible and workable pathways specific to those goals, and careful of unintended consequences.
3. Evaluation and prioritization of GHG reduction options: The Air District should systematically evaluate and prioritize the effectiveness of Bay Area GHG reduction options. Criteria should include the following:
 - i) Total global GHG emissions must actually be reduced. To ensure effective climate protection benefits, the Air District should adopt policies that truly reduce total global GHG emissions, and not simply displace Bay Area GHG emission elsewhere outside the Bay Area through leakage.
 - ii) GHG regulations should be complementary and non-conflicting. The climate change regulatory landscape is complex. To be most effective, Air District policies should be complementary and non-conflicting with those established by CARB, USEPA, and others. Coordination should include enhanced measurements of GHG emissions.
 - iii) Interactions of GHG and other programs and policies should be evaluated. While GHG reduction policies and toxics and criteria pollutant control programs are often synergistic, they are not always so. It is important that interactions among such programs and policies be evaluated and addressed to maximize health and climate benefits and minimize unintended consequences.

DISCUSSION

It is the mission of the Air District to “create a healthy breathing environment for every Bay Area resident while protecting and improving public health, air quality, and the global climate.”

Toward that end, the Air District has regulated toxics and criteria pollutants for over 60 years. During this time, there has been continuous improvement in Bay Area air quality due to Air District efforts, along with those of CARB, USEPA, and others. This process of continuous improvement has incorporated evolving understanding of atmospheric science, toxics and criteria pollutant health effects, and improving emissions control technology. The Air District has acted within a framework of State, Federal and local regulations, while also enacting its own rules.

Over a period of decades, the Air District has implemented a number of effective and proven regulatory programs and adopted rules to ensure that clean air health and other environmental standards are met.

Programs specifically directed at toxics include New Source Review of Toxic Air Contaminants, emission and/or performance standards for hazardous air pollutants, the Community Air Risk Evaluation (CARE) Program, and the California Air Toxics “Hot Spots” Program. Programs directed at criteria pollutants include the Multi-Pollutant Clean Air Plan (which also includes GHGs), New Source Performance Standards for new sources, and emission and/or performance standards for existing sources.

The Air District has enacted a number of rules directed specifically at reducing toxics and criteria pollutant emissions from refineries, with additional such rules the subject of currently on-going rulemaking. A significant expansion of community risk-based protection would be provided by draft “Regulation 11, Rule 18: Reduction of Risk from Air Toxic Emissions at Existing Facilities”. This rule would improve air quality and reduce toxic emissions from facilities ranging in size from large-scale plants like factories and refineries to smaller operations like back-up generators and gas stations. The Air District estimates that hundreds of facilities throughout the Bay Area may be subject to the proposed rule, which would incorporate recently adopted risk management guidelines and health risk values from the California Office of Environmental Health Hazard Assessment.

Under draft Rule 11-18, Air District staff would conduct site-specific health risk screening analyses for all facilities that report toxic air contaminant emissions, and calculate health prioritization scores based on the amount of toxic air pollution emitted, the degree of toxicity of these pollutants, and the proximity of these facilities to local communities. The Air District would conduct health risk assessments for facilities found to have priority scores above a threshold value.

All facilities found to have a cancer risk in excess of 10 in a million or an acute hazard index greater than 1.0 would be required to reduce their risk below 10 in a million and their hazard index below 1.0, or install Best Available Retrofit Control Technology for Toxic Pollutants on all significant sources of toxic emissions.

Because their effectiveness and focus have been amply demonstrated, the Council concludes that toxics and criteria pollutants should be regulated directly through such established programs, rather than indirectly as co-benefits of GHG reduction policies. The most effective place for Bay Area GHG emissions policy is within a comprehensive multi-pollutant strategy that accounts for the realities of conflicting effects, where present, including both co-benefits and dis-benefits.

Climate change is one of the most serious and urgent challenges confronting not just the Bay Area, but the world. That is why, for more than a decade, since 2005, the Air District Board, Staff, and Advisory Council have worked together in efforts that today place the Air District at the leading-edge of climate protection efforts by local agencies in California and throughout the U.S. Programs directed at global climate change include the Climate Protection Program, Regional Climate Protection Strategy, GHG emission inventories, and Plan Bay Area (with the Metropolitan Transportation Commission and others).

In determining the most effective path forward for its climate protection efforts, the Air District works within a framework of existing climate regulations enacted by the State of California, the Federal government, and others. Unlike toxics and criteria pollutants, for which effects of concern typically occur adjacent to emitting sources (tens of meters) or near-downwind (hundreds of meters to several kilometers), the relevant effects of climate change (and the GHGs that cause it) are global. In the Bay Area, such effects will include flooding from sea level rise, and increases in airborne pollutants from wild fires.

Climate change is one-world in scope, driven not just by GHG emissions from a single facility, localized area, or even a large geographical region, but by the world-wide total of all GHG emissions. While a ton of GHGs emitted anywhere in the world has the same effect on global climate as a ton of GHG emitted in the Bay Area, this is not a rationale for inaction but rather a call for leadership.

The Council strongly supports climate protection efforts by the Air District, State and Federal authorities, and others, and the Council views as urgent further efforts by all to take effective steps to address global climate change.

To be effective, efforts directed at global climate change must reduce total global GHG emissions. It is not sufficient to reduce GHG emissions in one location if those emissions are simply moved elsewhere to another part of the world, an effect called “leakage.” Avoiding leakage, or at least minimizing its risk, is key to ensuring the climate protection effectiveness of adopted policies and measures.

The Council is concerned about the potential for such GHG leakage with refineries. In permitting, refineries, like other stationary sources, are required to install emission controls sufficient to ensure that operations meet clean air toxics and criteria pollutant health standards, even if the refinery were to be operated at its theoretical maximum emission rate. The effect of a GHG cap, especially if set at actual throughput levels that are below permitted maximums, may be to prevent a refinery from processing the volume of crude it would otherwise have processed within its permit. If so, the Council is concerned that leakage will be triggered. Because the petroleum industry is globally integrated, the Council considers it likely that such excess crude over the cap (and the GHGs associated with that production) will be displaced from the Bay Area and relocated to refineries elsewhere, out from underneath the caps and negating their intended climate benefit.

The ready mobility of global refinery production and gasoline shipment re-equilibration, and thus the strong potential for GHG leakage, is illustrated by a recent example in Southern California. In February 2015, an explosion and fire at a large refinery in Torrance shut down the refinery for more than a year. Almost immediately, the loss of gasoline production was made up by large outside shipments.

According to the U.S. Energy Information Administration (October 13, 2015), “Over a five-month period following an explosion at a California oil refinery in February 2015, imports of gasoline into California increased to more than 10 times their typical level, drawing from sources that include India, the United Kingdom, and Russia.”

The Council is concerned that merely shifting Bay Area refinery GHG emissions to other locations outside the Bay Area will not truly reduce total global GHG emissions, and as a result, will not provide the climate protection expected and needed. In fact, should such a shift result in additional transport of displaced refinery products, as happened in the Torrance example, the carbon footprint of those products would actually increase.

Concern for leakage is not an excuse for inaction, however. There is much that can and must be done in the Bay Area and elsewhere to reduce total global GHG emissions, including those from petroleum-based sources, and there exist important opportunities for the Air District to provide leadership. The question is not whether to reduce global GHG emissions, but how to do it in a manner that will be effective in mitigating global climate change.

For example, emissions of high global warming potential (GWP) pollutants such as methane are not covered under cap-and-trade when emitted as fugitives, meaning emissions that are unintentional and

do not pass through a stack, or other equivalent opening. However, the GWP of methane is up to 25 times greater than that of carbon dioxide. The Air District can play a significant role in addressing fugitive emissions of methane in the Bay Area, whether by accidental discharges or from routine fugitive emissions at facilities.

More generally, the Air District should coordinate with CARB on its Short Lived Climate Pollutant (SLCP) strategy. The strategy addresses emissions of other high-GWP pollutants such as soot (black carbon), fluorinated gases and hydrofluorocarbons. In addition, at the federal level, there is already a Prevention of Significant Deterioration requirement for GHG.

Points of opportunity for Air District refinery focus include:

- Enhanced monitoring of high-GWP emissions such as methane
- Enhanced regulation of fugitive emissions of high-GWP emissions such as methane
- Enhanced energy efficiency reviews
- Increased focus on energy efficiency in the definition of GHG best practices and best available control technology

The Air District can also influence Bay Area GHG emissions in other ways:

The Council strongly encourages Air District efforts to identify, systematically evaluate and prioritize, and adopt Bay Area GHG reduction policies and measures, including ones directed at refineries as appropriate, that are effective in reducing total global GHG emissions, minimizing leakage risk, and complementing and reinforcing GHG reduction measures adopted by CARB (e.g., GHG cap-and-trade and methane reduction programs), USEPA, and others.

To maximize climate protection afforded by policies directed at petroleum-based GHGs, it is important to target both stationary and mobile sources. For example, in the Bay Area, as elsewhere in California, petroleum-fuelled mobile sources collectively are the largest emitters of GHGs. Approximately 80% of the GHGs emitted over the life-cycle of a barrel of petroleum used to produce gasoline are produced when that gasoline is burned as fuel in motor vehicles, that is, from “tank-to-wheels.” By comparison, refining accounts for about 12% of those petroleum life-cycle GHGs.

Relevant refinery GHG emissions information includes the following:

- Refineries emit approximately 16% of Bay Area GHG emissions, compared to transportation sources, which emit about 38%, two-thirds of which is from passenger cars/trucks.
- Refineries are five of the six largest emitters of GHGs among Bay Area stationary sources.
- Refining accounts for approximately 12% of the well-to-wheels GHG emissions from internal combustion engine transportation.
- Burning of fuel in vehicle engines (tank-to-wheels) accounts for approximately 80% of the well-to-wheels GHG emissions for internal combustion engine transportation.
- Refinery GHG emissions are primarily from process heaters and boilers, and from fluid catalytic cracking units, which together emit more than 90% of refinery GHGs. Global emissions of petroleum-based GHGs can be reduced most directly by reducing demand for petroleum-based fuels. Past experience suggests that gasoline demand is inelastic, that is, it is relatively insensitive to gasoline price over a broad range. This implies that GHG-reduction policies that reduce gasoline demand may be more effective in reducing gasoline usage (and resulting GHG emissions) than policies that rely on increased price.

Petroleum fuel demand can be reduced by lowering vehicle miles travelled (VMT) through a variety of local Bay Area policies, including, for example, ones that encourage more efficient and transportation-integrated land use (e.g., Plan Bay Area, Smart Growth) and increased availability and use of public transit (e.g., increased transit funding, bike and car share programs, expanded public education). Many of these policies are already key elements in plans to reduce toxics and criteria pollutant air pollution, and will be compatible with efforts to reduce GHG emissions.

In addition to petroleum fuel demand reduction, complementary measures are being adopted that reduce per-vehicle-mile GHG emissions. Such measures include a requirement for lower carbon fuel intensity (e.g., Low Carbon Fuel Standard), more stringent mileage standards for petroleum-fuelled vehicles, and replacement of petroleum-fuelled vehicles with cleaner, non-petroleum-fuelled alternatives (e.g., electric vehicles, ideally powered by renewable-generated electricity). Current paths to reduce carbon emissions in the Bay Area will not attain the stated 2050 goals without significant additional policies aimed at decarbonizing power sources. Therefore, the Air District should support policy efforts at the state and federal level to encourage development and deployment of carbon capture and sequestration (CCS), especially of natural gas power plants.

Certain individual sources of GHGs and/or other pollutants are known to release atypically large emissions, disproportionately larger than other similar sources and materially higher than estimated using standard bottom-up GHG emission estimation methods. The Air District should consider a find-and-fix program to identify and repair GHG “super-emitters,” if and where present, reducing non-inventory “hidden” (but real) GHG emissions from such sources.

ATTACHMENT A
Advisory Council Members

Pursuant to California Health and Safety Code § 40260-40268, the Advisory Council consists of seven members “skilled and experienced in the fields of air pollution, climate change, or the health impacts of air pollution,” and the Air District Board Chair (or their representative) as an ex-officio member. Council members are appointed by the Air District Board and are “selected to include a diversity of perspectives, expertise, and backgrounds.” Members of the Advisory Council include:

Member	Background	Air Pollution	Health	Climate
Stan Hayes	Member, Advisory Council (1995-2007, 2009-) and former chair; emeritus Principal, Ramboll Environ; air-related research consulting	X	X	X
Severin Borenstein	Professor of Business Administration and Public Policy, Haas School of Business, University of California, Berkeley			X
Tam Doduc	Member and former chair, State Water Resources Control Board; served as Deputy Secretary, Cal/EPA, directed environmental justice	X	X	
Robert Harley	Professor and Department Chair, Civil and Environmental Engineering, University of California, Berkeley	X		X
Michael Kleinman	Professor, Environmental Toxicology, Co-Director, Air Pollution Health Effects Laboratory, Adjunct Professor, College of Medicine, University of California, Irvine	X	X	
Tim Lipman	Co-Director, Transportation Sustainability Research Center, energy and environmental technology, economics, and policy researcher and lecturer; University of California, Berkeley	X		X
Jane CS Long	Chair, California’s Energy Future Committee, California Council on Science and Technology			X

ATTACHMENT B
Process and Speakers

DELIBERATIVE PROCESS

Presentations to the Council were made by more than a dozen speakers from the Air District, CARB, the California Energy Commission (CEC), and various interested stakeholders. A full list of speakers is provided below.

Speakers included Richard Corey, Executive Officer, CARB; Jack P. Broadbent, Executive Officer/APCO and other senior management and staff of the Air District; and senior representatives of Communities for a Better Environment, 350 Bay Area (by letter), the California Council for Environmental and Economic Balance, and the Western States Petroleum Association.

Council deliberation was conducted in five full-day meetings on December 3, 2015, and February 3, April 25, July 19, and October 3, 2016.

SPEAKERS

- Bay Area Air Quality Management District
 - Jack P. Broadbent, Executive Officer/APCO
 - Brian Bunger, General Counsel
 - Jeff McKay, Deputy APCO
 - Jim Karas, Director of Engineering
 - Henry Hilken, Director of Planning and Climate Protection

- California Air Resources Board
 - Richard Corey, Executive Officer
 - Sam Wade, Chief, Transportation and Fuels Branch
 - Jason Gray, Manager, Climate Change Market Monitoring Section

- California Energy Commission
 - Gordon Schremp, Senior Fuels Specialist

- Stakeholders
 - Communities for a Better Environment (CBE) – Greg Karras
 - 350 Bay Area – Letter
 - California Council for Environmental and Economic Balance (CCEEB) and Western States Petroleum Association (WSPA) – Bill Quinn and Berman Olbaldia; Gary Rubenstein, Sierra Research on behalf of CCEEB and WSPA

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Stan Hayes and Members
of the Advisory Council

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 2, 2017

Re: Presentation on Regulation 13, Rule 1: Refinery Carbon Intensity Cap

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

District staff will update the Advisory Council on Regulation 13, Rule 1 (Rule 13-1). This Rule is relevant to the topic of GHG reductions from refineries. It incorporates elements consistent with the Advisory Council's draft opinion on GHG refinery reductions by including coordination with the State, and by avoiding conflict with cap and trade.

Rule 13-1 would be the first step in the Air District's strategy to reduce combustion emissions across the region. Combustion of fossil fuels results in emissions of GHG, NO_x, SO₂ and PM. Rule 13-1 would cap GHG emissions from Bay Area refineries at a level consistent with their current, full-capacity operation. It would also require Bay Area refineries to implement cost-effective efficiency projects. The rule would not interfere with Cap-and-Trade or the gasoline market because it would cap GHG emissions at a level consistent with current maximum production capacity and it would allow for refineries to increase production as long as the carbon intensity of the refinery (CO₂e emitted per barrel of crude oil processed) does not increase. Rule 13-1 would prevent refineries from switching over to heavier, more sulfurous crude oil, such as Canadian tar sands crude, because doing so would significantly increase a refinery's carbon intensity.

DISCUSSION

Rule 13-1 would reduce emissions of GHG by requiring that efficiency projects be implemented, where feasible, and prevent GHG emissions from significantly increasing in the future by requiring that carbon intensity baselines not be exceeded. A concept paper for Rule 13-1 is attached.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jeff McKay
Reviewed by: Jean Roggenkamp

Attachment 6A: Concept Paper – Regulation 13, Rule 1: Refinery Carbon Intensity Cap

Concept Paper - Rule 13-1: Refinery Carbon Intensity Cap

Updated: Jan. 23, 2017

Background and Purpose:

Refineries are the largest stationary sources of combustion emissions in the Air District. When fossil fuels are burned, they generate greenhouse gases (GHG) and criteria pollutants such as particulate matter (PM), nitrogen dioxide (NO_x), and sulfur dioxide (SO₂). Combustion emissions from refineries will need to be addressed in order to attain and maintain ambient air quality standards and to meet Air District and statewide goals for reducing GHG emissions.

Regulation 13, Rule 1 would serve as the initial step in an effort to limit and reduce combustion emissions in the Bay Area. The goals of the rule are as follows:

1. Require refineries to implement cost-effective energy efficiency measures to reduce combustion emissions.
2. Ensure refinery combustion emissions do not increase on a per-barrel basis, using GHG emissions as an indicator. This would prevent significant increases in combustion emissions due to process and feedstock changes such as making a wholesale switch to heavier and more sulfurous feedstocks (e.g. crude oil from Canadian tar sands).

This would be the first rule in a new Regulation 13. Future rules under Regulation 13 will address other significant sources of combustion emissions, such as cement kilns, using methods specifically designed for those sources.

Rule Concept:

1. Cap each refinery at a level consistent with full-capacity operation for current equipment configuration and recent crude slate.
2. After one year, the level of the cap would be reduced by an amount consistent with the expected benefits of cost-effective energy efficiency measures that the refineries identified in 2011 energy audits required by the Air Resources Board.
3. Refinery-specific caps would be expressed in the form of carbon dioxide equivalent per barrel of crude oil processed (CO₂e/barrel). These carbon intensity calculations must account for all emissions that are generated by the refining process including those associated with imported power or purchased hydrogen.
4. The method for calculating the caps are specified in the rule, but not the caps themselves. The carbon intensity will be published by the Air District during implementation and annually as part of a compliance report prepared by the Air District.

Please contact Greg Nudd, Rule Development Manager, gnudd@baaqmd.gov with any questions.

AGENDA 6A - ATTACHMENT

5. The carbon intensity caps can be adjusted upward if necessary to comply with state, federal, or BAAQMD regulatory mandates.
6. Rule would sunset should ARB adopt a rule that is at least as stringent.
7. The adoption resolution would direct staff to re-visit the rule if Bay Area refineries export more than 10% of their finished products for three years in a row. (At that point, we may want to look at an international benchmark for carbon intensity and ensure that there is a net benefit for the environment if petroleum products are manufactured locally.)

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Stan Hayes and Members
of the Advisory Council

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 26, 2017

Re: Advisory Council Deliberation on the Draft 2017 Clean Air Plan/Regional Climate
Protection Strategy

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

In prior meetings of the Advisory Council, staff has discussed the Clean Air Plan. This updated document is required by the California Clean Air Act. The 2017 Clean Air Plan/Regional Climate Protection Strategy (Plan) is a roadmap for the Air District's efforts to address two key objectives:

- Assure healthful air in all Bay Area communities
- Reduce GHGs to achieve long term climate stabilization

As such, the 2017 Plan includes a long range vision of the Bay Area in 2050, and a short term control strategy to reduce criteria pollutants, toxics and GHGs to make progress towards these objectives.

DISCUSSION

The Air District asks for the Advisory Council's expertise in considering topics that are, or should be, included in this forward-looking Plan, with particular emphasis on the Executive Summary and First Chapter.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jeff McKay and Henry Hilken
Reviewed by: Jean Roggenkamp

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Report of the Budget and Finance Committee Meeting of February 22, 2017

RECOMMENDED ACTION

The Budget and Finance Committee (Committee) received only informational items and have no recommendations of approval by the Board of Directors (Board).

BACKGROUND

The Committee met on Wednesday, February 22, 2017, and received the following report:

- A) Discussion of Projects and Funding Proposals Relevant to the Fiscal Year Ending (FYE) 2018 Budget

Chairperson Carole Groom will provide an oral report of the Committee meeting.

BUDGET CONSIDERATION/FINANCIAL IMPACT

- A) None; receive and file.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

Attachment 11A: 2/22/17 – Budget and Finance Committee Meeting Agenda #4

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Carole Groom and Members
of the Budget and Finance Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 15, 2017

Re: Discussion of Projects and Funding Priorities Relevant to the Fiscal Year Ending
(FYE) 2018 Budget

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

During the FYE 2018 budget process, staff will propose a number of projects consistent with Board direction. In addition, there will be discussion of use of Reserve funds for unfunded liabilities and for other purposes.

The Committee will receive an overview of these topics. This presentation, prior to the presentation of the draft budget, is meant to allow early deliberation by the Committee, and to allow staff to obtain a sense of the Committee's direction.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None; receive and file.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jeff McKay

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Report of the Executive Committee Meeting of February 22, 2017

RECOMMENDED ACTION

The Executive Committee (Committee) received only informational items and have no recommendations of approval by the Board of Directors (Board).

BACKGROUND

The Committee met on Wednesday, February 22, 2017 and received the following reports:

- A) Hearing Board Quarterly Report: July – September 2016 and October – December 2016
- B) Bay Area Regional Collaborative (BARC) Update
- C) Technology Implementation Office (TIO) Update; and
- D) Advisory Council Opinion on Greenhouse Gas (GHG) Caps at Bay Area Refineries

Chairperson Liz Kniss will provide an oral report of the Committee meeting.

BUDGET CONSIDERATION/FINANCIAL IMPACT

- A) None; receive and file.
- B) None; receive and file.
- C) None; receive and file; and
- D) None; receive and file.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

Attachment 12A: 2/22/17 – Executive Committee Meeting Agenda #4
Attachment 12B: 2/22/17 – Executive Committee Meeting Agenda #5
Attachment 12C: 2/22/17 – Executive Committee Meeting Agenda #6
Attachment 12D: 2/22/17 – Executive Committee Meeting Agenda #7

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Executive Committee

From: Chairperson Terry Trumbull, Esq., and Members
of the Hearing Board

Date: February 8, 2017

Re: Hearing Board Quarterly Report: July – September 2016 and October – December 2016

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

As the third quarter Hearing Board Quarterly Report of 2016 was not included on the November 21, 2016 Executive Committee meeting agenda, this report will cover the third *and* fourth quarters of 2016.

During the **third** quarter of 2016 (July - September), the Hearing Board:

- Held one Hearing on an Accusation (3692) and one Hearing on a variance (3693); and
- Processed a total of four Orders, including three Orders for Dismissal (3688, 3693, 3694) and one Order Granting Emergency Variance (3691); and
- Collected a total of \$0.00 in filing fees.

Below is a detail of Hearing Board activity during the same period:

Locations: Alameda County; City of Fremont; AND Solano County; City of Vallejo

Docket: 3688 - APCO vs. SB Gas and Wash Management, Inc., et al – *Accusation*

Regulation(s): Regulation 2, Rule 1 - Section 302

Synopsis: Complainant alleged that since at least May 2014, Respondents have owned or operated two gasoline dispensing facilities (GDF) in Fremont and Vallejo, California, for which they must hold a current and valid District permit to operate gasoline dispensing equipment, pursuant to District Regulation 2, Rule 1. After taking ownership, Respondents did not renew the expired permits for either facility or submit applications for obtain new permits, but continued to operate these facilities continuously in violation of District Regulation 2-1-302. Despite efforts by the District to bring Respondents in compliance with permit requirements, Respondents continued to operate in violation of District Regulation 2-1-302. Complainant sought an Abatement Order that Respondents cease violating District regulation 2, Rule 1, Section 302, at its Vallejo and Fremont facilities unless and until Respondents obtain valid District permits to operate.

Status: Hearing was originally scheduled for June 2, 2016 and was continued to August 11, 2016, and then to September 29, 2016; the parties resolved the matter and the Complainant sought a Dismissal, which the Hearing Board granted on September 22, 2016; Order for Dismissal filed September 26, 2016; docket closed.

Period of Variance: n/a

Estimated Excess Emissions: n/a

Fees collected this quarter: n/a

Location: Santa Clara County; City of San Jose

Docket: 3691 - Shell Oil Products – *Application for Emergency Variance*

Regulation(s): Regulation 8, Rule 5 - Section 322

Synopsis: Applicant operates a storage tank, an internal floating roof tank storing ethanol used for bulk storage and loading of petroleum products. Tears in the secondary seal of the tank were noticed upon inspection on May 10, 2016, and Applicant determined that the cause of the failure was unknown. Excess emissions were considered negligible. Repairs were scheduled to begin on May 11, 2016.

Status: On May 12, 2016, the Hearing Board Granted the Applicant's request for an Emergency Variance; Order Granting Emergency Variance filed on August 8, 2016; docket closed.

Period of Variance: May 11, 2016, at 1:00 p.m., to June 10, 2016, at 1:00 p.m. (30 days)

Estimated Excess Emissions: 4.75 lbs per day of Pollutants of Concern

Fees collected this quarter: \$0

Location: Alameda County; City of Union City

Docket: 3692 - APCO vs. K&A Gas and Auto Repair, Inc., et al – *Accusation*

Regulation(s): Regulation 2, Rule 1 - Section 302

Synopsis: Respondents own or operate a GDF in Union City, California for which they must hold a current and valid District permit to operate gasoline dispensing equipment, pursuant to District Regulation 2, Rule 1. Since February 2014, Respondents have been conducting gasoline dispensing operations continuously at this gas station without a permit to operate, in violation of District Regulation 2-1-302. Complainant seeks an order that Respondents cease gasoline dispensing operations at this facility until the obtain a current, valid District permit to do so.

Status: First Hearing held July 14, 2016.

Period of Variance: n/a

Estimated Excess Emissions: n/a

Fees collected this quarter: n/a

Location: Contra Costa County; City of Martinez

Docket: 3693 - Shell Chemicals, LP - *Application for Short-Term Variance*

Regulation(s): Regulation 8, Rule 5 - Section 307; Permit Conditions 19945 and 15124

Synopsis: The plant subject to this variance request manufactures solid and liquid catalyst used in the petrochemicals business. The Applicant planned that two abatement devices would be out of service for maintenance and natural gas supply piping upgrades during variance period, leaving eight other devices unabated while organic liquids or vapors were present. The facility did not plan to operate processes associated with these sources during the variance period, and did not anticipate any changes in chemicals in the vessels. Negligible emissions were anticipated during this short variance period. When the application was submitted, the Applicant was in compliance with permit conditions, but was requesting variance relief for planned work. The applicant planned to return to compliance upon completion of the planned work on the natural gas line.

Status: Hearing was originally scheduled for July 7, 2016; on July 1, 2016, parties filed joint request to continue the Hearing, and the Hearing Board denied this request; on July 6, Applicant requested the withdrawal of the application, but the Hearing Board chose to meet on July 7 as planned, as this request was submitted less than 24 hours prior to the scheduled Hearing; Order for Dismissal filed on July 14, 2016; docket closed.

Period of Variance: July 11, 2016 to July 26 2016 (15 days)

Estimated Excess Emissions: 0.56 lbs per day of Pollutants of Concern

Fees collected this quarter: \$0

Location: Santa Clara County; City of San Jose

Docket: 3694 - APCO vs. Classic Auto Body & Paint Five Star, Inc., et al – *Accusation*

Regulation(s): Regulation 2, Rule 1

Synopsis: Complainant was informed and believed and thereon alleged that since 2004, one or both of the Respondents have owned or operated a facility in San Jose, California where they conduct motor vehicle refinishing operations, for which they must hold a current and valid District permit to operate, pursuant to District Regulation 2, Rule 1. At the time that the Accusation was filed, Respondents operated that facility without a current permit, despite their knowledge of the permit requirements. Since owning or operating the facility, Respondents had never renewed or reinstated their permit to operate in a timely manner. Complainant sought an Order that Respondents cease conducting these operations until they obtain a District permit to do so.

Status: Complainant requested a Dismissal on August 3, 2016, and the Hearing Board approved; Order for Dismissal filed on August 10, 2016; docket closed.

Period of Variance: n/a

Estimated Excess Emissions: n/a

Fees collected this quarter: n/a

During the **fourth** quarter of 2016 (October - December), the Hearing Board:

- Held no Hearings of any kind; and
- Processed a total of five Orders, including three Orders for Dismissal (3692, 3695, 3697), one Order Granting Emergency Variance (3687), and one Order Denying Emergency Variance (3696); and
- Collected a total of \$5,703.00 in filing fees, including one Emergency Variance (3696), and one Short-Term/Interim Variance (3697).

Below is a detail of Hearing Board activity during the same period:

Location: Contra Costa County; City of Richmond

Docket: 3687 - Chevron Products Co. – *Application for Emergency Variance*

Regulation(s): Regulation 8, Rule 5, Sections 304, 321.1, 321.3, 322.1, 322.3, and 322.5

Synopsis: Applicant operates a Title V refinery that refines crude oil and intermediates for gasoline and diesel fuel. On April 6, 2016, Applicant discovered that a portion of the primary and secondary rim seals on tank T-3197, which contained naphtha, were damaged. There was no indication of rim seal problems at the last inspection of T-3197, which is regularly inspected. Once damage to the seals was discovered, Applicant acted promptly to stop product from entering or leaving the tank, informed the Air District of the problem, and injected construction foam to suppress excess VOC emissions from the damaged section of the tank. Fire foam was used to reduce excess VOC emissions during decommissioning.

Status: On October 4, 2016, the Hearing Board granted the Applicant's request for an Emergency Variance. Order Granting Emergency Variance filed on October 4, 2016; docket closed.

Period of Variance: April 8, 2016, at 9:00 a.m., to April 18, 2016 (10 days)

Estimated Excess Emissions: 10 lbs per day of Hydrocarbon.

Fees collected this quarter: \$0

Location: Alameda County; City of Union City

Docket: 3692 - APCO vs. K&A Gas and Auto Repair, Inc., et al – *Accusation*

Regulation(s): Regulation 2, Rule 1 - Section 302

Synopsis: Respondents own or operate a GDF in Milpitas, California for which they must hold a current and valid District permit to operate gasoline dispensing equipment, pursuant to District Regulation 2, Rule 1. Since at least October 2010, one or more of the Respondents had been conducting gasoline dispensing operations continuously at this GDF. Since at least September 1, 2012, they had been operating without a permit to operate, in violation of District Regulation 2-1-302. Complainant sought an order that Respondents cease gasoline dispensing operations at this facility until they obtain a current, valid District permit to do so.

Status: First Hearing held July 14, 2016; request for a Continued Hearing on November 3, 2016 was filed by the Complainant on October 6, 2016 and approved by the Hearing Board; Order for Dismissal filed October 19, 2017; docket closed.

Period of Variance: n/a

Estimated Excess Emissions: n/a

Fees collected this quarter: n/a

Location: Santa Clara County; City of Milpitas

Docket: 3695 - APCO vs. California Auto Tech 2, Inc., et al - *Accusation*

Regulation(s): Regulation 2, Rule 1

Synopsis: Respondents own or operate a gas station in Milpitas, California for which they must hold a current and valid District permit to operate gasoline dispensing equipment, pursuant to District Regulation 2, Rule 1. Since at least September 2011, gasoline dispensing operations have been conducted continuously at the gas station without a District permit in violation of District Regulation 2-1-302. Complainant seeks an order that Respondents cease gasoline dispensing operations at this facility until they obtain a current, valid District permit to do so.

Status: Pre-Hearing was originally scheduled for October 27, 2016, but was continued to November 10, 2016; request to cancel Pre-Hearing and schedule a Hearing for December 8, 2016 filed by Complainant on November 1, 2016 was approved by the Hearing Board; request for Dismissal filed by Complainant on November 28, 2016 was approved by Hearing Board; Order for Dismissal filed on December 7, 2016; docket closed.

Period of Variance: n/a

Estimated Excess Emissions: n/a

Fees collected this quarter: \$0

Location: Santa Clara County; City of San Jose

Docket: 3696 - Shell Oil Products - *Application for Emergency Variance*

Regulation(s): Regulation 8, Rule 5 - Section 322.1

Synopsis: Applicant submitted application for the same equipment failure at the same facility in May 2016 (Docket No. 3691.) Applicant operates a storage tank, an internal floating roof tank storing ethanol used for bulk storage and loading of petroleum products. Tears in the secondary seal of the tank were noticed upon inspection on November 17, 2016, and Applicant determined that the cause of the failure was unknown. Excess emissions were considered negligible. Repairs were scheduled to begin on November 30, 2016.

Status: On November 23, 2016, the Hearing Board denied the Applicant's request for an Emergency Variance; Order Denying Emergency Variance filed on December 7, 2016; docket closed.

Period of Variance: November 17, 2016 at 2:30 p.m. to December 17, 2016 at 2:30 p.m. (30 days)

Estimated Excess Emissions: None.

Fees collected this quarter: \$1,054.00

Location: Santa Clara County; City of San Jose

Docket: 3697 - Shell Oil Products - *Application for Short-Term/Interim Variance*

Regulation(s): Regulation 8, Rule 5 - Section 322

Synopsis: Applicant submitted this application in response to the Hearing Board's denial of an Emergency Variance for Docket No. 3696, regarding the same equipment failure at the same facility. Applicant operates a storage tank, an internal floating roof tank storing ethanol used for bulk storage and loading of petroleum products. Tears in the secondary seal of the tank were noticed upon inspection on November 17, 2016, and Applicant determined that the cause of the failure is unknown. Repairs were completed on November 30, 2016. Primary and secondary seals will be replaced, but the tank must be taken out of service prior to seal replacements. Efforts to empty the tank and remove it from service were expected to be completed no later than December 15, 2016, and a full API 653 inspection will be completed once the tank has been taken out of service.

Status: Hearings for both the Short-Term and Interim Variances were scheduled on December 22, 2016; on December 13, 2016, Applicant requested withdrawal of the application, which was approved by the Hearing Board; Order for Dismissal filed on December 22, 2016; docket closed.

Period of Variance: November 17, 2016 to December 15, 2016 (29 days)

Estimated Excess Emissions: <<14.1 lbs per day of Volatile Organic Compounds

Fees collected this quarter: \$4,649.00

Respectfully submitted,

Terry Trumbull, Esq.
Chair, Hearing Board

Prepared by: Marcy Hiratzka
Reviewed by: Maricela Martinez

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Executive Committee

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: February 15, 2017

Re: Bay Area Regional Collaborative (BARC) Update

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

The Bay Area Regional Collaborative (BARC) consists of Board/Commission representatives of the four regional agencies and provides a forum for discussing issues of regional importance.

DISCUSSION

At the upcoming Executive Committee meeting, the BARC Director, Allison Brooks, will provide an update on the activities of the BARC.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jean Roggenkamp

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Executive Committee

From: Jack P. Broadbent
Executive Officer/Air Pollution Control Officer

Date: February 15, 2017

Re: Technology Implementation Office (TIO) Update

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

At the Board of Directors (Board) Special Meeting on January 18, 2017, staff introduced the concept of establishing a Technology Implementation Office (TIO). The purpose of this office is to serve as a catalyst for innovation in the field of greenhouse gas (GHG) emissions reduction by deploying disruptive, low-cost solutions in the areas of zero emissions vehicles; smart/connected technologies; and zero emissions energy generation and efficiency technologies.

Staff believes that this office is necessary in order to assist regulated stationary sources with the deployment of the technologies that will help us achieve the goal of a carbon-free Bay Area by 2050, as envisioned in the Bay Area Air Quality Management District's (Air District's) new draft Clean Air Plan (CAP). While the transportation and public sector have moved relatively quickly to embrace climate protection, the Air District believes that the stationary source sector has lagged in adopting climate change goals and technologies. This is in large part due to economic and regulatory uncertainties, a lack of information sharing across industry sectors and a reluctance to invest in unfamiliar technologies.

Additionally, while the electric vehicle and the enhanced and connected mobility sectors are thriving in the Bay Area, staff believes that additional support will be necessary for both to achieve the carbon free future envisioned CAP. In order to ensure that the Air District continues to encourage innovation and zero emissions technologies in the transportation sector, staff is proposing the transfer of the Electric Vehicle and Enhanced Mobility Programs from the Strategic Incentives Division to the TIO. This transfer will require an ongoing commitment of Transportation Fund for Clean Air monies to the TIO to support these efforts.

DISCUSSION

At the upcoming meeting, staff will discuss the actions underway as part of the fiscal year ending 2018 budget to launch the TIO, its initial projects, and possible funding with the Executive Committee.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Damian Breen

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Kniss and Members
of the Executive Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 15, 2017

Re: Advisory Council Opinion on Green House Gas (GHG) Caps at Bay Area Refineries

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

The Advisory Council completed its discussion on the efficacy of Greenhouse Gas (GHG) caps for local refineries during its meeting on February 6, 2017. The Advisory Council's opinion takes into consideration information provided from a variety of sources, including presentations by the California Air Resources Board, the California Energy Commission and Communities for a Better Environment. The Committee will be presented with a summary of the Advisory Council's process, their deliberations and their final opinion.

BUDGET CONSIDERATIONS/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Jeff McKay

Attachment 7A: Advisory Council Opinion on the Efficacy of Greenhouse Gas Caps on Bay Area Refineries

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADVISORY COUNCIL
EFFICACY OF GREENHOUSE GAS CAPS ON BAY AREA REFINERIES**

KEY QUESTION BEFORE THE COUNCIL

Air District staff asked the Advisory Council to consider the following question:

“What is the efficacy of imposing greenhouse gas caps on Bay Area refineries?”

PREAMBLE

While the key question focuses on refinery greenhouse gas (GHG) emissions and global climate change, the Council recognizes that there are also community concerns about the effects of refinery toxics and criteria pollutant emissions on health risk, particularly near refineries. We view both climate and health risk considerations as crucially important, and the Council’s opinions are meant to address both.

With respect to climate, we conclude that refinery GHG caps are unlikely to be effective in mitigating global climate change. That conclusion, however, is not an endorsement of inaction. The Council strongly supports coordinated climate protection efforts by the Air District, CARB, USEPA, and others, and the Council views as urgent further efforts by all to take effective steps toward climate protection.

With respect to health risk, we conclude that toxics and criteria pollutant health risk are most effectively addressed directly, through established health-based programs and measures such as draft rule 11-18, rather than indirectly as co-benefits of GHG reduction policies.

CONCLUSIONS

Based on the material that it has considered, its deliberations, and its collective expertise and experience, the Council has reached the following conclusions:

- **Conclusion on Key Question:** The Council concludes that facility-level caps on Bay Area refinery GHG emissions are unlikely to be effective in mitigating global climate change. GHG reduction policies are effective in providing climate protection only if total global GHG emissions are reduced, and if leakage occurs (that is, GHG emissions are shifted outside of the Bay Area to other locations instead of being reduced), which is likely with refinery GHG caps, such caps would not provide such protection.
- **Policy Recommendation:** The Council recommends that the Air District identify, systematically evaluate, prioritize, and adopt Bay Area GHG reduction policies and measures, including ones directed at refineries as appropriate, that are effective in reducing total global GHG emissions, minimize leakage risk, and complement and reinforce GHG reduction measures adopted by CARB (e.g., GHG cap-and-trade and methane reduction programs), USEPA, and others.
- **Policy Recommendation:** The Council recommends that the Air District address community concerns about toxics and criteria pollutants directly, through established programs, rather than indirectly as co-benefits of GHG reduction policies. The approach embodied in proposed rule 11-18 is consistent with this recommendation.

GUIDING PRINCIPLES

The Council has developed the following guiding principles that it regards as useful when evaluating the efficacy of Refinery GHG caps:

1. Clear goals: The Air District should state its goals clearly. If the goal of a proposed GHG reduction measure, such as a Refinery GHG cap, is climate protection, then that goal should be explicitly stated. If toxics reduction is the goal, that should be stated. If, instead, the goal is to limit or reduce the amount or nature of crude throughput at Bay Area refineries, that is a different goal, and should be clearly stated.
2. Systematic evaluation of policies to ensure that they support the goals: The Air District should align its policies, including refinery-related GHG measures, with its goals and ground them in plausible and workable pathways specific to those goals, and careful of unintended consequences.
3. Evaluation and prioritization of GHG reduction options: The Air District should systematically evaluate and prioritize the effectiveness of Bay Area GHG reduction options. Criteria should include the following:
 - i) Total global GHG emissions must actually be reduced. To ensure effective climate protection benefits, the Air District should adopt policies that truly reduce total global GHG emissions, and not simply displace Bay Area GHG emission elsewhere outside the Bay Area through leakage.
 - ii) GHG regulations should be complementary and non-conflicting. The climate change regulatory landscape is complex. To be most effective, Air District policies should be complementary and non-conflicting with those established by CARB, USEPA, and others. Coordination should include enhanced measurements of GHG emissions.
 - iii) Interactions of GHG and other programs and policies should be evaluated. While GHG reduction policies and toxics and criteria pollutant control programs are often complimentary, they are not always so. It is important that interactions among such programs and policies be evaluated and addressed to maximize health and climate benefits and minimize unintended consequences.

DISCUSSION

It is the mission of the Air District to “create a healthy breathing environment for every Bay Area resident while protecting and improving public health, air quality, and the global climate.”

Toward that end, the Air District has regulated toxics and criteria pollutants for over 60 years. During this time, there has been continuous improvement in Bay Area air quality due to Air District efforts, along with those of CARB, USEPA, and others. This process of continuous improvement has incorporated evolving understanding of atmospheric science, toxics and criteria pollutant health effects, and improving emissions control technology. The Air District has acted within a framework of State, Federal and local regulations, while also enacting its own rules.

Over a period of decades, the Air District has implemented a number of effective and proven regulatory programs and adopted rules to ensure that clean air health and other environmental standards are met. Programs specifically directed at toxics include New Source Review of Toxic Air Contaminants, emission and/or performance standards for hazardous air pollutants, the Community Air Risk Evaluation (CARE) Program, and the California Air Toxics “Hot Spots” Program. Programs directed at criteria pollutants include the Multi-Pollutant Clean Air Plan (which also includes GHGs), New Source Performance Standards for new sources, and emission and/or performance standards for existing sources.

The Air District has enacted a number of rules directed specifically at reducing toxics and criteria pollutant emissions from refineries, with additional such rules the subject of currently on-going rulemaking. A significant expansion of community risk-based protection would be provided by draft “Regulation 11, Rule 18: Reduction of Risk from Air Toxic Emissions at Existing Facilities”. This rule would improve air quality and reduce toxic emissions from facilities ranging in size from large-scale plants like factories and refineries to smaller operations like back-up generators and gas stations. The Air District estimates that hundreds of facilities throughout the Bay Area may be subject to the proposed rule, which would incorporate recently adopted risk management guidelines and health risk values from the California Office of Environmental Health Hazard Assessment.

Rule 11-18

Under draft Rule 11-18, Air District staff would conduct site-specific health risk screening analyses for all facilities that report toxic air contaminant emissions, and calculate health prioritization scores based on the amount of toxic air pollution emitted, the degree of toxicity of these pollutants, and the proximity of these facilities to local communities. The Air District would conduct health risk assessments for facilities found to have priority scores above a threshold value.

All facilities found to have a cancer risk in excess of 10 in a million or an acute hazard index greater than 1.0 would be required to reduce their risk below 10 in a million and their hazard index below 1.0, or install Best Available Retrofit Control Technology for Toxic Pollutants on all significant sources of toxic emissions.

Because their effectiveness and focus have been amply demonstrated, the Council concludes that toxics and criteria pollutants should be regulated directly through such established programs, rather than indirectly as co-benefits of GHG reduction policies. The most effective place for Bay Area GHG emissions policy is within a comprehensive multi-pollutant strategy that accounts for the realities of conflicting effects, where present, including both co-benefits and dis-benefits.

Climate change is one of the most serious and urgent challenges confronting not just the Bay Area, but the world. That is why, for more than a decade, since 2005, the Air District Board, Staff, and Advisory Council have worked together in efforts that today place the Air District at the leading-edge of climate protection efforts by local agencies in California and throughout the U.S. Programs directed at global climate change include the Climate Protection Program, Regional Climate Protection Strategy, GHG emission inventories, and Plan Bay Area (with the Metropolitan Transportation Commission and others).

In determining the most effective path forward for its climate protection efforts, the Air District works within a framework of existing climate regulations enacted by the State of California, the Federal government, and others. Unlike toxics and criteria pollutants, for which effects of concern typically occur adjacent to emitting sources (tens of meters) or near-downwind (hundreds of meters to several

kilometers), the relevant effects of climate change (and the GHGs that cause it) are global. In the Bay Area, such effects will include flooding from sea level rise, and increases in property damage and airborne pollutants from wild fires.

Climate change is one-world in scope, driven not just by GHG emissions from a single facility, localized area, or even a large geographical region, but by the world-wide total of all GHG emissions. While a ton of GHGs emitted anywhere in the world has the same effect on global climate as a ton of GHG emitted in the Bay Area, this is not a rationale for inaction but rather a call for leadership.

The Council strongly supports climate protection efforts by the Air District, State and Federal authorities, and others, and the Council views as urgent further efforts by all to take effective steps to address global climate change.

To be effective, efforts directed at global climate change must reduce total global GHG emissions. It is not sufficient to reduce GHG emissions in one location if those emissions are simply moved elsewhere to another part of the world, an effect called “leakage.” Avoiding leakage, or at least minimizing its risk, is key to ensuring the climate protection effectiveness of adopted policies and measures.

The Council is concerned about the potential for such GHG leakage with refineries. In permitting, refineries, like other stationary sources, are required to install emission controls sufficient to ensure that operations meet clean air toxics and criteria pollutant health standards, even if the refinery were to be operated at its theoretical maximum emission rate. The effect of a GHG cap, especially if set at actual throughput levels that are below permitted maximums, may be to prevent a refinery from processing the volume of crude it would otherwise have processed within its permit. If so, the Council is concerned that leakage will be triggered. Because the petroleum industry is globally integrated, the Council considers it likely that such excess crude over the cap (and the GHGs associated with that production) will be displaced from the Bay Area and relocated to refineries elsewhere, out from underneath the caps and negating their intended climate benefit.

The ready mobility of global refinery production and gasoline shipment re-equilibration, and thus the strong potential for GHG leakage, is illustrated by a recent example in Southern California. In February 2015, an explosion and fire at a large refinery in Torrance shut down the refinery for more than a year. Almost immediately, the loss of gasoline production was made up by large outside shipments.

According to the U.S. Energy Information Administration (October 13, 2015), “Over a five-month period following an explosion at a California oil refinery in February 2015, imports of gasoline into California increased to more than 10 times their typical level, drawing from sources that include India, the United Kingdom, and Russia.”

The Council is concerned that merely shifting Bay Area refinery GHG emissions to other locations outside the Bay Area will not truly reduce total global GHG emissions, and as a result, will not provide the climate protection expected and needed. In fact, should such a shift result in additional transport of displaced refinery products, as happened in the Torrance example, the carbon footprint of those products would actually increase.

Concern for leakage is not an excuse for inaction, however. There is much that can and must be done in the Bay Area and elsewhere to reduce total global GHG emissions, including those from petroleum-based sources, and there exist important opportunities for the Air District to provide leadership. The

question is not whether to reduce global GHG emissions, but how to do it in a manner that will be effective in mitigating global climate change.

For example, emissions of high global warming potential (GWP) pollutants such as methane are not covered under cap-and-trade when emitted as fugitives, meaning emissions that are unintentional and do not pass through a stack, or other equivalent opening. However, the GWP of methane 34 times greater than that of carbon dioxide. The Air District can play a significant role in addressing fugitive emissions of methane in the Bay Area, whether by accidental discharges or from routine fugitive emissions at facilities.

More generally, the Air District should coordinate with CARB on its Short Lived Climate Pollutant (SLCP) strategy. The strategy addresses emissions of other high-GWP pollutants such as soot (black carbon), fluorinated gases and hydrofluorocarbons. In addition, at the federal level, there is already a Prevention of Significant Deterioration requirement for GHG.

Points of opportunity for Air District refinery focus include:

- Enhanced monitoring of high-GWP emissions such as methane
- Enhanced regulation of fugitive emissions of high-GWP emissions such as methane
- Enhanced energy efficiency reviews
- Increased focus on energy efficiency in the definition of GHG best practices and best available control technology

The Air District can also influence Bay Area GHG emissions in other ways:

The Council strongly encourages Air District efforts to identify, systematically evaluate and prioritize, and adopt Bay Area GHG reduction policies and measures, including ones directed at refineries as appropriate, that are effective in reducing total global GHG emissions, minimizing leakage risk, and complementing and reinforcing GHG reduction measures adopted by CARB (e.g., GHG cap-and-trade and methane reduction programs), USEPA, and others.

To maximize climate protection afforded by policies directed at petroleum-based GHGs, it is important to target both stationary and mobile sources. For example, in the Bay Area, as elsewhere in California, petroleum-fuelled mobile sources collectively are the largest emitters of GHGs. Approximately 80% of the GHGs emitted over the life-cycle of a barrel of petroleum used to produce gasoline are produced when that gasoline is burned as fuel in motor vehicles, that is, from “tank-to-wheels.” By comparison, refining accounts for about 12% of those petroleum life-cycle GHGs.

Relevant refinery GHG emissions information includes the following:

- Refineries emit approximately 16% of Bay Area GHG emissions, compared to transportation sources, which emit about 38%, two-thirds of which is from passenger cars/trucks.
- Refineries are five of the six largest emitters of GHGs among Bay Area stationary sources.
- Refining accounts for approximately 12% of the well-to-wheels GHG emissions from internal combustion engine transportation.
- Burning of fuel in vehicle engines (tank-to-wheels) accounts for approximately 80% of the well-to-wheels GHG emissions for internal combustion engine transportation.
- Refinery GHG emissions are primarily from process heaters and boilers, and from fluid catalytic cracking units, which together emit more than 90% of refinery GHGs. Global emissions of

petroleum-based GHGs can be reduced most directly by reducing demand for petroleum-based fuels. Past experience suggests that gasoline demand is inelastic, that is, it is relatively insensitive to gasoline price over a broad range. This suggests use of alternate strategies to reduce demand and increase efficiency may be appropriate.

Petroleum fuel demand can be reduced by lowering vehicle miles travelled (VMT) through a variety of local Bay Area policies, including, for example, ones that encourage more efficient and transportation-integrated land use (e.g., Plan Bay Area, Smart Growth) and increased availability and use of public transit (e.g., increased transit funding, bike and car share programs, expanded public education). Many of these policies are already key elements in plans to reduce toxics and criteria pollutant air pollution, and will be compatible with efforts to reduce GHG emissions.

In addition to petroleum fuel demand reduction, complementary measures are being adopted that reduce per-vehicle-mile GHG emissions. Such measures include a requirement for lower carbon fuel intensity (e.g., Low Carbon Fuel Standard), more stringent mileage standards for petroleum-fuelled vehicles, and replacement of petroleum-fuelled vehicles with cleaner, non-petroleum-fuelled alternatives (e.g., electric vehicles, ideally powered by renewable-generated electricity). Current paths to reduce carbon emissions in the Bay Area will not attain the stated 2050 goals without significant additional policies aimed at decarbonizing power sources. Therefore, the Air District should support a wide variety of policies to accomplish this goal, including policies to research and develop technologies, including for instance carbon capture and sequestration.

Certain individual sources of GHGs and/or other pollutants are known to release atypically large emissions, disproportionately larger than other similar sources and materially higher than estimated using standard bottom-up GHG emission estimation methods. The Air District should consider a find-and-fix program to identify and repair GHG “super-emitters,” if and where present, reducing non-inventory “hidden” (but real) GHG emissions from such sources.

ATTACHMENT A
Advisory Council Members

Pursuant to California Health and Safety Code § 40260-40268, the Advisory Council consists of seven members “skilled and experienced in the fields of air pollution, climate change, or the health impacts of air pollution,” and the Air District Board Chair (or their representative) as an ex-officio member. Council members are appointed by the Air District Board and are “selected to include a diversity of perspectives, expertise, and backgrounds.” Members of the Advisory Council include:

Member	Background	Air Pollution	Health	Climate
Stan Hayes	Member, Advisory Council (1995-2007, 2009-) and former chair; emeritus Principal, Ramboll Environ; air-related research consulting	X	X	X
Severin Borenstein	Professor of Business Administration and Public Policy, Haas School of Business, University of California, Berkeley			X
Tam Doduc	Member and former chair, State Water Resources Control Board; served as Deputy Secretary, Cal/EPA, directed environmental justice	X	X	
Robert Harley	Professor and Department Chair, Civil and Environmental Engineering, University of California, Berkeley	X		X
Michael Kleinman	Professor, Environmental Toxicology, Co-Director, Air Pollution Health Effects Laboratory, Adjunct Professor, College of Medicine, University of California, Irvine	X	X	
Tim Lipman	Co-Director, Transportation Sustainability Research Center, energy and environmental technology, economics, and policy researcher and lecturer; University of California, Berkeley	X		X
Jane CS Long	Chair, California’s Energy Future Committee, California Council on Science and Technology			X

ATTACHMENT B
Process and Speakers

DELIBERATIVE PROCESS

Presentations to the Council were made by more than a dozen speakers from the Air District, CARB, the California Energy Commission (CEC), and various interested stakeholders. A full list of speakers is provided below.

Speakers included Richard Corey, Executive Officer, CARB; Jack P. Broadbent, Executive Officer/APCO and other senior management and staff of the Air District; and senior representatives of Communities for a Better Environment, 350 Bay Area (by letter), the California Council for Environmental and Economic Balance, and the Western States Petroleum Association.

Council deliberation was conducted in five full-day meetings on December 3, 2015, and February 3, April 25, July 19, and October 3, 2016.

SPEAKERS

- Bay Area Air Quality Management District
 - Jack P. Broadbent, Executive Officer/APCO
 - Brian Bunger, General Counsel
 - Jeff McKay, Deputy APCO
 - Jim Karas, Director of Engineering
 - Henry Hilken, Director of Planning and Climate Protection

- California Air Resources Board
 - Richard Corey, Executive Officer
 - Sam Wade, Chief, Transportation and Fuels Branch
 - Jason Gray, Manager, Climate Change Market Monitoring Section

- California Energy Commission
 - Gordon Schremp, Senior Fuels Specialist

- Stakeholders
 - Communities for a Better Environment (CBE) – Greg Karras
 - 350 Bay Area – Letter
 - California Council for Environmental and Economic Balance (CCEEB) and Western States Petroleum Association (WSPA) – Bill Quinn and Berman Olbaldia; Gary Rubenstein, Sierra Research on behalf of CCEEB and WSPA

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Report of the Mobile Source Committee Meeting of February 23, 2017

RECOMMENDED ACTION

The Mobile Source Committee (Committee) recommends Board of Directors' approval of the following items:

A) Projects and Contracts with Proposed Grant Awards over \$100,000

- 1) Approve Carl Moyer Program (CMP) projects with proposed grant awards over \$100,000 as shown in Attachment 1; and
- 2) Authorize the Executive Officer/APCO to enter into agreements with applicants for the recommended projects.

B) Air District Grant Programs Overview

- 1) None; receive and file

C) Participation in Year 19 of the Carl Moyer Program and Approval of the 2017 Caltrain Funding Plan

- 1) Adopt a resolution authorizing the Executive Officer/APCO to execute all necessary agreements with the California Air Resources Board (ARB) relating to the Air District's receipt of Carl Moyer Program (CMP) funds for fiscal year 2016-2017 (Program Year 19);
- 2) Allocate \$3 million in Mobile Source Incentive Funding to provide the required match funding and additional monies for projects eligible for funding under the CMP guidelines; and
- 3) Approve the proposed 2017 funding plan for the Caltrain Electrification project.

BACKGROUND

The Committee met on Thursday, February 23, 2017, and received the following reports:

- A) Projects and Contracts with Proposed Grant Awards over \$100,000;
- B) Air District Grant Programs Overview; and
- C) Participation in Year 19 of the Carl Moyer Program and Approval of the 2017 Caltrain Funding Plan

Chairperson Karen Mitchoff will provide an oral report of the Committee meeting.

BUDGET CONSIDERATION/FINANCIAL IMPACT

- A) None. Through the CMP and MSIF, the Air District distributes “pass-through” funds to the public agencies and private entities on a reimbursement basis. Administrative costs for these programs are provided by each funding source;
- B) None; and
- C) None. Through the CMP and MSIF grant programs the Air District distributes “pass-through” funds to public agencies and private entities on a reimbursement basis. Administrative costs for all programs are provided by each funding source.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Aloha Galimba
Reviewed by: Maricela Martinez

Attachment 13A: 02/23/17 – Mobile Source Committee Meeting Agenda #4
Attachment 13B: 02/23/17 – Mobile Source Committee Meeting Agenda #5
Attachment 13C: 02/23/17 – Mobile Source Committee Meeting Agenda #6

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Karen Mitchoff and Members
of the Mobile Source Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 2, 2017

Re: Projects and Contracts with Proposed Grant Awards over \$100,000

RECOMMENDATIONS

Recommend Board of Directors:

1. Approve Carl Moyer Program (CMP) projects with proposed grant awards over \$100,000 as shown in Attachment 1; and
2. Authorize the Executive Officer/APCO to enter into all necessary agreements with applicants and partners for the recommended projects.

BACKGROUND

The Bay Area Air Quality Management District (Air District) has participated in the Carl Moyer Program (CMP), in cooperation with the California Air Resources Board (ARB), since the program began in fiscal year 1998-1999. The CMP provides grants to public and private entities to reduce emissions of oxides of nitrogen (NOx), reactive organic gases (ROG) and particulate matter (PM) from existing heavy-duty engines by either replacing or retrofitting them. Eligible heavy-duty diesel engine applications include on-road trucks and buses, off-road equipment, marine vessels, locomotives, and stationary agricultural pump engines.

Assembly Bill 923 (AB 923 - Firebaugh), enacted in 2004 (codified as Health and Safety Code Section 44225), authorized local air districts to increase their motor vehicle registration surcharge up to an additional \$2 per vehicle. The revenues from the additional \$2 surcharge are deposited in the Air District's Mobile Source Incentive Fund (MSIF). AB 923 stipulates that air districts may use the revenues generated by the additional \$2 surcharge for projects eligible under the CMP.

On March 16, 2016, the Board of Directors (Board) authorized Air District participation in Year 18 of the CMP, and authorized the Executive Officer/APCO to execute Grant Agreements and amendments for projects funded with CMP funds or MSIF revenues, with individual grant award amounts up to \$100,000.

CMP projects with grant award amounts over \$100,000 are brought to the Mobile Source Committee for consideration at least on a quarterly basis. Staff reviews and evaluates the grant applications based upon the respective governing policies and guidelines established by the ARB.

DISCUSSION

The Air District started accepting project applications for the CMP Year 18 funding cycle on July 11, 2016. The Air District had approximately \$11 million available for CMP projects from a combination of MSIF and CMP funds for the Year 18 cycle. Project applications are accepted and evaluated on a first-come, first-served basis.

As of February 2, 2017, the Air District had received 44 project applications for the CMP Year 18 cycle. Of the applications that have been evaluated between January 5, 2017, and February 2, 2017 three eligible projects have proposed individual grant awards over \$100,000. These projects will replace four diesel tractors and two diesel passenger locomotives, and reduce over 21.1 tons of NOx, ROG and PM per year. Staff recommends the allocation of \$5,624,910 for these projects from a combination of CMP Year 17 multi-district funds, CMP funds and MSIF revenues. Attachment 1, Table 1, provides additional information on these projects.

One of the recommended projects is a proposal to replace two San Joaquin Regional Rail Commission/Altamont Corridor Express (ACE) passenger locomotives using a combination of approximately:

- \$2.5 million in CMP Year 17 multi-district funds;
- \$2.5 million from a combination of Air District CMP and MSIF funding;
- \$2.5 million of funding from the San Joaquin Valley Air Pollution Control District; and
- \$7.5 million in Cap & Trade funds from the California State Transportation Agency

The CMP Year 17 multi-district funds are different than the annual CMP funding the Air District receives in that the multi-district funds were awarded by the ARB for projects that reduce emissions in multiple air districts. This project will reduce emissions in both the San Joaquin Valley and the Bay Area. The San Joaquin Valley Air Pollution Control District's contribution to the project is subject to approval by their Board of Directors who will be considering the proposal in February 2017.

Attachment 2, lists all of the eligible Year 18 projects that have been received by the Air District as of February 2, 2017, and summarizes the allocation of funding by equipment category, and county. This list also includes eligible Voucher Incentive Program (VIP) on-road replacement projects. Approximately 79% of the funds have been awarded to projects that reduce emissions in highly impacted Bay Area communities. Attachment 3 summarizes the cumulative allocation of CMP, MSIF, and VBB funding since 2009 (more than \$134 million awarded to 787 projects).

BUDGET CONSIDERATION / FINANCIAL IMPACT

None. Through the CMP and MSIF, the Air District distributes "pass-through" funds to public agencies and private entities on a reimbursement basis. Administrative costs for these programs are provided by each funding source.

Respectfully submitted,

Jack P. Broadbent
Executive Director/APCO

Prepared by: Anthony Fournier

Reviewed by: Karen Schkolnick and Damian Breen

Attachment 1: Projects with grant awards greater than \$100,000 (evaluated 1/5/17 – 2/2/17)

Attachment 2: Summary of all Year 18 CMP/ MSIF and VIP approved and eligible projects
(evaluated 8/30/16 – 2/2/17)

Attachment 3: Summary of program distribution by county and equipment category for CMP,
MSIF, VBB, and VIP funding since 2009.

AGENDA 4 - ATTACHMENT 1

Table 1 - Summary of Carl Moyer Program/ Mobile Source Incentive Fund projects
with grant awards greater than \$100k (Evaluated between 1/5/17 and 2/2/17)

Project #	Applicant name	Equipment category	Project description	Proposed contract award	Total project cost	Emission Reductions (Tons per year)			County
						NOx	ROG	PM	
18MOY30	Mertens Dairy	Ag/ off-road	Replacement of two diesel tractors	\$ 294,740.00	\$ 368,440.57	1.186	0.156	0.055	Sonoma
18MOY42	McClelland's Dairy	Ag/ off-road	Replacement of two diesel tractors	\$ 330,170.00	\$ 412,797.22	1.769	0.153	0.052	Sonoma
18MOY37 ¹	San Joaquin Regional Rail Commission / ACE	Locomotive	Replacement of two diesel passenger locomotives	\$ 5,000,000.00	\$ 15,000,000.00	16.164	1.112	0.483	Alameda / Santa Clara
3 Projects				\$ 5,624,910.00		19.119	1.421	0.590	

¹ In addition to the proposed \$5 million in Air District funding, the contract award for project 18MOY37 may include an additional \$2.5 million from the San Joaquin Valley APCD for this project

AGENDA 4 - ATTACHMENT 2

Summary of all Yr 18 CMP, MSIF and VIP approved/ eligible projects (between 8/30/16 and 2/2/17)

Project #	Equipment category	Project type	# of engines	Proposed contract award	Applicant name	Emission Reductions (Tons per year)			Board approval date	County
						NOx	ROG	PM		
18MOY10	Ag/ off-road	Equipment replacement	3	\$ 116,595.00	Pina Vineyard Management , LLC.	0.361	0.049	0.021	11/16/2016	Napa
18MOY7	Ag/ off-road	Equipment replacement	1	\$ 71,800.00	Walter Hansel Winery & Vineyards LLC	0.174	0.031	0.015	APCO	Sonoma
18MOY5	Ag/ off-road	Equipment replacement	1	\$ 34,550.00	Corey J Coggins (Farmer)	0.103	0.018	0.004	APCO	San Mateo
18MOY9	Off-road	Equipment replacement	1	\$ 20,700.00	Silicon Roadways, Inc.	0.086	0.016	0.007	APCO	Alameda
18MOY15	Off-road	Equipment replacement	1	\$ 85,200.00	Keith J. Gale General Engineering, Inc.	0.545	0.056	0.020	APCO	Solano
18MOY13	Ag/ off-road	Equipment replacement	1	\$ 95,530.00	Robert and Julia Marsh (Farmer)	0.667	0.070	0.024	APCO	San Mateo
18MOY17	Off-road	Equipment replacement	1	\$ 85,000.00	SF Recovery, Inc.	0.823	0.099	0.035	APCO	San Francisco
18MOY14	Marine	Engine replacement	2	\$ 130,000.00	Reel Time Charters, LLC	0.875	0.005	0.032	1/18/2017	San Francisco
18MOY23	Off-road	Equipment replacement	1	\$ 72,800.00	Columbia Electric, Inc.	0.366	0.052	0.023	APCO	Alameda
18MOY25	Off-road	Equipment replacement	1	\$ 64,000.00	Iron House Sanitary District	0.379	0.046	0.016	APCO	Contra Costa
18MOY12	Ag/ off-road	Equipment replacement	1	\$ 35,000.00	Mazzetta Dairy	0.086	0.002	0.006	APCO	Sonoma
18MOY20	Ag/ off-road	Equipment replacement	2	\$ 97,520.00	Wight Vineyard Management, Inc.	0.221	0.046	0.021	APCO	Napa
18MOY26	Ag/ off-road	Equipment replacement	1	\$ 165,230.00	Saturnino Del Castillo (Farmer)	0.799	0.084	0.028	1/18/2017	Solano
18MOY19	Marine	Engine replacement	2	\$ 230,000.00	Sport Fishing Enterprises, LLC	0.681	0.000	0.037	1/18/2017	Alameda
18MOY2	Ag/ off-road	Equipment replacement	1	\$ 35,325.00	Nick Leras Vineyards	0.169	0.029	0.011	APCO	Sonoma
18MOY27	Ag/ off-road	Equipment replacement	2	\$ 89,060.00	Balletto Ranch, Inc.	0.453	0.081	0.039	APCO	Sonoma
18MOY31	Marine	Engine replacement	2	\$ 156,000.00	Sean Marcus Hodges (Charter fishing)	0.437	-0.011	0.027	2/1/2017	Marin
18MOY28	Ag/ off-road	Equipment replacement	1	\$ 34,000.00	Pina Vineyard Management , LLC.	0.075	0.015	0.007	APCO	Napa
18MOY36	Ag/ off-road	Equipment replacement	1	\$ 49,900.00	Donald R Hardin Trust	0.134	0.024	0.009	APCO	Napa
17MOY66	Ag/ off-road	Equipment replacement	1	\$ 39,545.00	Dirt Farmer & Company, A California Corporation	0.105	0.032	0.010	APCO	Sonoma
18MOY35	Ag/ off-road	Equipment replacement	1	\$ 16,200.00	Cortina Vineyard Management	0.022	0.013	0.003	APCO	Napa
18MOY33	Ag/ off-road	Equipment replacement	1	\$ 44,225.00	M. German & Son Partnership	0.154	0.031	0.014	APCO	Solano
18MOY30	Ag/ off-road	Equipment replacement	2	\$ 294,740.00	Mertens Dairy	1.186	0.156	0.055	TBD	Sonoma
18MOY24	Off-road	Equipment replacement	1	\$ 61,600.00	Columbia Electric, Inc.	0.246	0.044	0.021	APCO	Alameda
18MOY42	Ag/ off-road	Equipment replacement	2	\$ 330,170.00	McClelland's Dairy	1.769	0.153	0.052	TBD	Sonoma
18MOY37	Locomotive	Equipment replacement	2	\$ 5,000,000.00	San Joaquin Regional Rail Commission / ACE	16.164	1.112	0.483	TBD	Alameda / Santa Clara
VIP282	VIP	Truck Replacement	1	\$ 10,000.00	Cornel Roman/ Camelia Roman	0.400	0.000	0.010	APCO	Alameda
VIP283	VIP	Truck Replacement	1	\$ 15,000.00	Javier De La Torre	0.300	0.010	0.000	APCO	Yolo
VIP284	VIP	Truck Replacement	1	\$ 30,000.00	J/W Sanchez Trucking, Inc.	0.600	0.010	0.000	APCO	Alameda
VIP285	VIP	Truck Replacement	1	\$ 40,000.00	Phieu Hung Nguyen	0.870	0.010	0.000	APCO	Alameda
VIP287	VIP	Truck Replacement	1	\$ 45,000.00	Manuel Rivera DBA JJC Trucking	0.900	0.010	0.000	APCO	San Joaquin
VIP288	VIP	Truck Replacement	1	\$ 45,000.00	Thanh Duc Nguyen	0.890	0.010	0.000	APCO	Alameda
32 Projects			42	\$ 7,639,690.00		31.039	2.301	1.032		

AGENDA 4 - ATTACHMENT 2

Figure 1: CMP/ MSIF Funding Distribution by Equipment Category as of 2/2/17

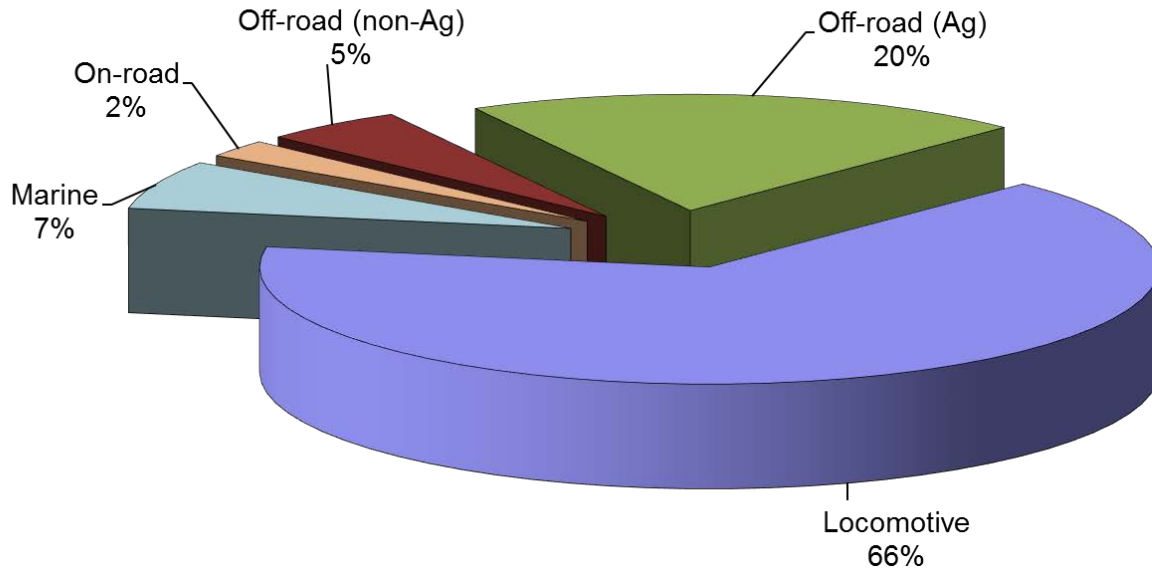
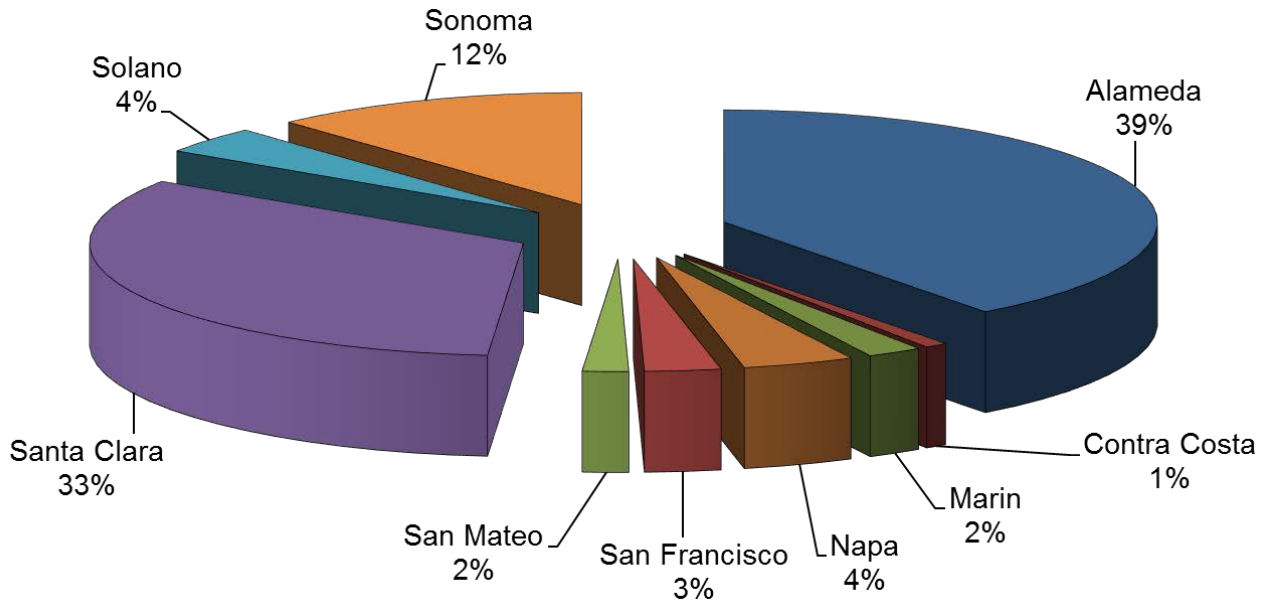


Figure 2: CMP/ MSIF Funding Distribution by County as of 2/2/17



AGENDA 4 - ATTACHMENT 3

Figure 3: CMP, MSIF, VBB and VIP funding since 2009 by equipment category

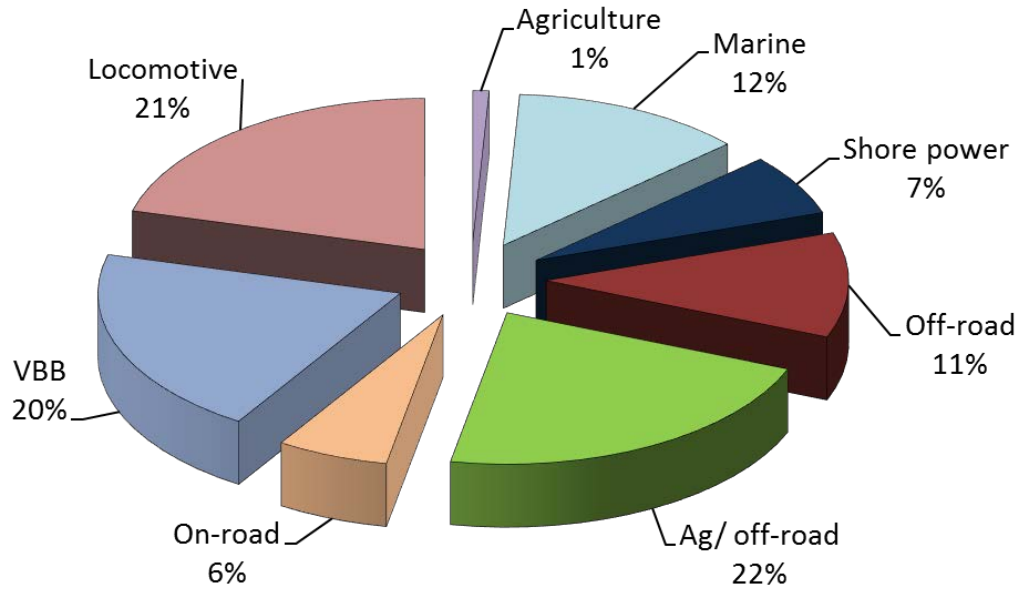
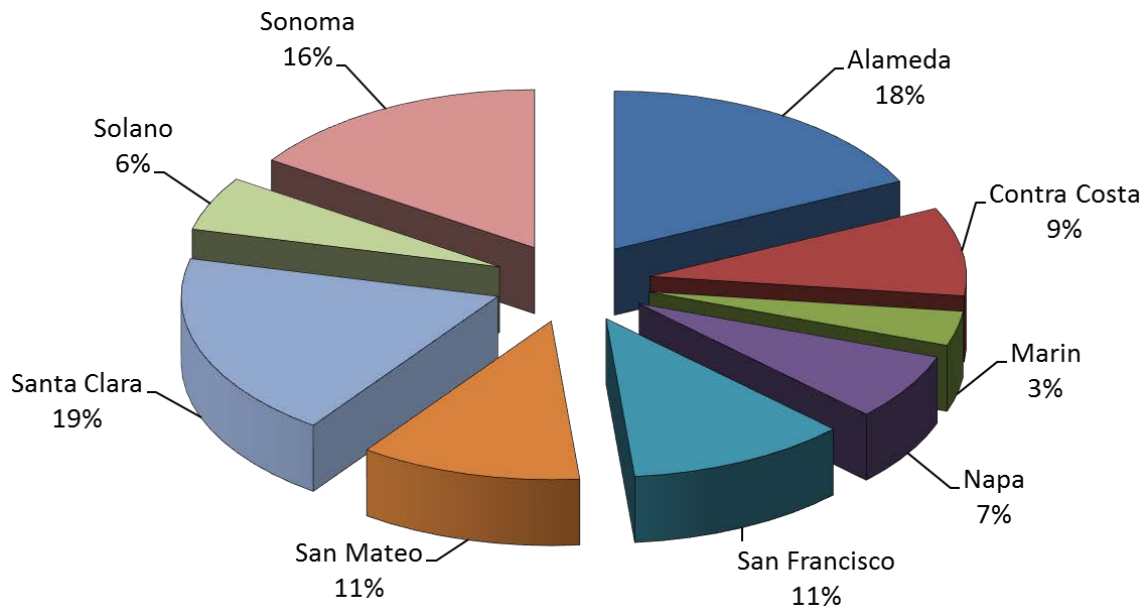


Figure 4: CMP, MSIF, VBB and VIP funding since 2009 by county



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Karen Mitchoff and Members
of the Mobile Source Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 9, 2017

Re: Air District Grant Programs Overview

RECOMMENDATIONS

None; receive and file.

BACKGROUND

In the Bay Area, the transportation sector accounts for 40% of the criteria air pollutants and 36% of the green-house gasses (GHG) generated.^{1, 2} Since tailpipe emissions contribute significantly to criteria pollutants and GHGs, emissions reductions from the on-road transportation sector are essential to helping the Bay Area attain State and Federal ambient air quality standards and meet its GHG reduction commitments. As part of its efforts to reduce emissions from mobile sources, the Bay Area Air Quality Management District (Air District) administers grant and incentive programs that offer funding to public agencies, private companies, and Bay Area residents to help offset a portion of the cost to implement eligible emissions reduction projects.

In calendar year 2016, the District awarded more than \$70 million in funding to eligible projects. Approximately \$61 million of that funding was directly allocated by the Air District. The remaining \$9 million was distributed via the Transportation Fund for Clean Air (TFCA) County Program Manager program. The \$61 million allocated by the Air District came from four renewable funding sources: the California Goods Movement Bond, TFCA Regional Fund, Mobile Source Incentive Fund, and the Carl Moyer Program. These programs accumulate annually via fees and bond sales that are distributed to the Air District, and constitute the Air District's primary grant programs. In addition, staff also seeks out additional funding opportunities (e.g., state and federal sources) to further reduce emissions from mobile sources in the Bay Area.

¹ BAAQMD, [Bay Area Emissions Inventory Summary Report: Criteria Air Pollutants Base Year 2011](#), May 2014.

² BAAQMD, [Bay Area Emissions Inventory Summary Report: Greenhouse Gases Base Year 2011](#), January 2015.

DISCUSSION

Since calendar year 2011, the Committee has received similar reports from staff on expenditures in various grant programs for the previous calendar year.

This year's report will include a discussion of the total incentive funds allocated in calendar year 2016 by funding source, project/equipment category, and county, and how the grant funds awarded in 2016 are projected to contribute to emissions reduction from the Air District emissions inventory. Staff will also discuss with the Committee the projected funding for each of the Air District primary grant programs in calendar year 2017 and present historical information dating back to calendar year 2012 showing how Air District funds have been allocated over the past five years.

BUDGET CONSIDERATION / FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Chengfeng Wang and Anthony Fournier
Reviewed by: Damian Breen and Karen Schkolnick

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Karen Mitchoff and Members
of the Mobile Source Committee

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 9, 2017

Re: Participation in Year 19 of the Carl Moyer Program and Approval of the 2017
Caltrain Funding Plan

RECOMMENDATIONS

Recommend Board of Directors:

1. Adopt a resolution authorizing the Executive Officer/APCO to execute all necessary agreements with the California Air Resources Board (ARB) relating to the Air District's receipt of Carl Moyer Program (CMP) funds for fiscal year 2016-2017 (Program Year 19);
2. Allocate \$3 million in Mobile Source Incentive Funding to provide the required match funding and additional monies for projects eligible for funding under the CMP guidelines; and
3. Approve the proposed 2017 funding plan for the Caltrain Electrification project.

BACKGROUND

The Bay Area Air Quality Management District (Air District) has participated in the CMP since the program began in Fiscal Year (FY) 1998-1999. Through the CMP the Air District provides grants to public and private entities to reduce emissions of oxides of nitrogen (NOx), reactive organic gases (ROG) and particulate matter (PM) from existing heavy-duty engines by either replacing or retrofitting them. Eligible heavy-duty diesel engine applications include trucks and buses, mobile off-road equipment, marine vessels, locomotives, stationary agricultural pump engines, and forklifts.

Assembly Bill 923 (Firebaugh), enacted in 2004 (codified as Health and Safety Code Section 44225), authorized local air districts to increase their motor vehicle registration surcharge up to an additional \$2 per vehicle. The revenues from the additional surcharge are deposited in the Air District's Mobile Source Incentive Fund (MSIF). AB 923 stipulates that air districts may use the revenues generated by the additional \$2 surcharge for projects eligible under the CMP.

DISCUSSION

On January 27, 2017, the Air District submitted an application to ARB requesting \$10,650,000 in funding for the implementation of the CMP Year 19 CMP funding cycle (FY 2016-2017). Up to 6.25% of the total funds awarded to the Air District will be used to pay for administrative expenses related to the implementation of the CMP. As part of the application, the Air District has proposed a commitment of up to \$1,800,000 in matching funds for Year 19. Staff is therefore requesting the Board meet this required match, and expand the program for additional eligible emissions reductions projects by allocating \$3 million in MSIF funds to the CMP Year 19 funding cycle.

Staff plans to begin accepting CMP Year 19 applications in mid-2017. Project applications will be accepted and evaluated on a first-come, first-served basis until all funds have been allocated. Also, in accordance with the authorization granted to the Executive Officer/APCO on February 4, 2009, projects with individual grant awards up to \$100,000 will be executed by the Executive Officer/ APCO, and reported to the Mobile Source Committee on at least a quarterly basis. Eligible projects with individual grant awards over \$100,000 will also be brought to the MSC for consideration at least quarterly.

The Air District will use the 2017 ARB CMP Guidelines, and subsequent updates for the Year 19 CMP cycle. Year 19 funding must be obligated to eligible projects by June 30, 2018, and be expended by June 30, 2019. In accordance with AB 1390, 50% of all CMP funding allocated by the Air District must be awarded to projects in impacted communities. The process that will be used for identifying and prioritizing CMP Year 19 projects benefiting impacted communities will be similar to the process used for the previous CMP funding cycles. Priority will be given to projects that reduce emissions in communities based on data from the Air District's Community Air Risk Evaluation (CARE) program.

Caltrain Electrification Project

On July 29, 2015, the Air District allocated \$20 million in MSIF funds to the Peninsula Corridor Joint Powers Board for the Caltrain Electrification Project and authorized the Executive Officer/APCO to enter into the necessary agreements for the project. As part of approval of this project, the Board requested a five-year funding plan (between 2016 and 2020) be prepared and brought to the Board annually for approval. On January 7, 2016, the Air District entered into agreement with the Peninsula Corridor Joint Powers Board for the Caltrain Electrification project. On March 16, 2016 the Air District's Board of Directors approved the initial \$13 million funding plan for the project. Staff is proposing a 2017 funding plan that includes \$3 million in new 2017 MSIF revenues for this project. Staff will return in future years with updates to the funding plan until the entire \$20 million allocation has been authorized.

BUDGET CONSIDERATION / FINANCIAL IMPACT

None. Through the CMP and MSIF grant programs the Air District distributes "pass-through" funds to public agencies and private entities on a reimbursement basis. Administrative costs for all programs are provided by each funding source.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Anthony Fournier
Reviewed by: Karen Schkolnick and Damian Breen

Attachment 1: Resolution accepting Carl Moyer Program funds from the California Air Resources Board

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

RESOLUTION No. 2017 -

**A Resolution Accepting Carl Moyer Program Funds
From the California Air Resources Board**

WHEREAS, California Health and Safety Code Division 26, Part 5, Chapter 9, empowers the California Air Resources Board (ARB) to allocate Carl Moyer Program funds to local air quality districts to provide financial incentives to both the public and private sector to implement eligible projects to reduce emissions from on-road, marine, locomotive, agriculture, and off-road engines;

WHEREAS, California Health and Safety Code section 44287, authorizes ARB to provide an air district with funds if that district provides matching funds in an amount established by ARB;

WHEREAS, the Bay Area Air Quality Management District (District) submitted an application to ARB requesting \$10,650,000 in Carl Moyer Program funds to implement the Carl Moyer Program within the District for the fiscal year (FY) 2016-2017 (Year 19) cycle;

WHEREAS, the District proposed to commit up to \$1,800,000 in matching funds as part of the Year 19 Carl Moyer Program cycle, in accordance with the requirements of California Health and Safety Code section 44287;

WHEREAS, ARB will authorize a grant to the District to implement the Carl Moyer Program Year 19, upon approval by the Board of Directors to accept such grant of funds;

WHEREAS, ARB will award a grant in the amount of as much as \$10,650,000, with the District-required match of up to \$1,800,000.

NOW, THEREFORE, BE IT RESOLVED, the Board of Directors hereby approves the District's continued participation in the Carl Moyer Program and acceptance of the FY 2016-2017, Carl Moyer Program funds, to be awarded to eligible District projects in accordance with the ARB Carl Moyer Program guidelines.

BE IT FURTHER RESOLVED, the District will provide the required matching funds for District projects by allocating local motor vehicle surcharge revenues to eligible emission reduction projects that qualify for Carl Moyer Program matching purposes.

BE IT FURTHER RESOLVED, the Executive Officer/Air Pollution Control Officer is hereby authorized and empowered to execute on behalf of the District grant agreements with ARB and all other necessary documents to implement and carry out the purposes of this resolution.

AGENDA 6 – ATTACHMENT 1

The foregoing resolution was duly and regularly introduced, passed and adopted at a regular meeting of the Board of Directors of the Bay Area Air Quality Management District on the Motion of Director _____, seconded by Director _____, on the ____ day of _____, 2017, by the following vote of the Board:

AYES:

NOES:

ABSENT:

Liz Kniss
Chairperson of the Board of Directors

ATTEST:

Katie Rice
Secretary of the Board of Directors

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Liz Kniss and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: February 23, 2017

Re: Draft 2017 Clean Air Plan: Spare the Air, Cool the Climate

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

The Air District has released the draft 2017 Clean Air Plan: *Spare the Air – Cool the Climate* (draft Plan). The draft Plan responds to California Clean Air Act requirements to identify rules and strategies for the Air District to implement in order to meet state ambient air quality standards for ozone or “smog.” With the draft Plan, the Air District is continuing the practice, established with its 2010 Clean Air Plan, of taking a multi-pollutant approach to regional clean air planning. The draft Plan includes measures and programs to reduce emissions of ozone precursors, particulate matter (PM) and toxic air contaminants (TACs), and includes a Regional Climate Protection Strategy, as directed in the Climate Protection Resolution adopted by the Board of Directors in November 2013.

DISCUSSION

Spare the Air – Cool the Climate focuses on two closely-related goals: protecting public health and protecting the climate. To protect public health, the draft Plan emphasizes continuing to reduce air pollution emissions to eliminate disparities in exposure to air pollutants among Bay Area communities. To protect the climate, the Plan lays the groundwork for a long-term effort to reduce Bay Area greenhouse gas (GHG) emissions 80 percent below the 1990 level by 2050, consistent with the State’s and Air District’s GHG reduction targets. The draft Plan includes a long-range Vision for a post-carbon society in 2050, describing a thriving Bay Area with clean air, a stable climate, a robust natural environment, and a prosperous and sustainable economy. The draft Plan includes a comprehensive, near-term (3-5 year) control strategy of 85 measures reflecting the entire suite of tools, expertise and resources at the Air District’s disposal to set the Bay Area on a path toward achieving this Vision.

Spare the Air – Cool the Climate establishes the Air District as a leader in the effort to achieve the integrated goals of climate stabilization and healthy air for all. Staff will brief the Board of

Directors on the draft Plan, including the long-range Vision and the near-term control strategy, recent public outreach efforts, and initial ideas on implementation.

BUDGET CONSIDERATION/FINANCIAL IMPACT

Resources to develop the 2017 Clean Air Plan are included in the Fiscal Year Ending (FYE) 2017 budget. Resources to implement the Plan will be included in the FYE 2018 and subsequent budgets.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Abby Young
Reviewed by: Henry Hilken