



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

BOARD OF DIRECTORS
SPECIAL MEETING/RETREAT
JANUARY 16, 2013

A special meeting of the Bay Area Air Quality Management District Board of Directors will be held at 9:45 a.m. at San Jose City Hall, 200 East Santa Clara Street, San Jose, CA 95113.

**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 not be webcast.

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 SPECIAL MEETING/RETREAT AGENDA

WEDNESDAY
JANUARY 16, 2013
9:45 A.M.

SAN JOSÉ CITY HALL
200 EAST SANTA CLARA STREET
SAN JOSE, CA 95113

CALL TO ORDER

Opening Comments
Roll Call
Pledge of Allegiance

Chairperson, John Gioia
Clerk of the Boards

PUBLIC COMMENT ON NON-AGENDA MATTERS

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.

Welcome by Mayor Chuck Reed – City of San José Mayor Chuck Reed will address the Board of Directors.

COMMENDATIONS/PROCLAMATIONS/AWARDS

The Board of Directors will recognize outgoing Board Chairperson John Gioia for his outstanding leadership as Chair of the Board of Directors in 2012.

The Board of Directors will recognize outgoing Directors Susan Garner and Jennifer Hosterman for their service, leadership and dedication to protecting air quality in the Bay Area.

CONSENT CALENDAR (ITEMS 1 – 4)

Staff/Phone (415) 749-

1. Minutes of the Board of Directors Regular Meeting of December 19, 2012

Clerk of the Boards

2. Board Communications Received from December 19, 2012 through January 15, 2013

J. Broadbent/5052

jbroadbent@baaqmd.gov

A list of communications directed to the Board of Directors received by the Air District from December 19, 2012 through January 15, 2013, if any, will be at each Board Member's place.

3. 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.

4. Notice of Violations Issued and Settlements in excess of \$10,000 in December 2012 **B. Bunger/4797**
jbroadbent@baaqmd.gov

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

BOARD OF DIRECTORS RETREAT

5. **Opening Comments** Chairperson, Ash Kalra

6. **State of the Air District** **J. Broadbent/5052**
jbroadbent@baaqmd.gov

The Executive Officer/APCO will address the Board of Directors regarding the state of the Air District.

7. **Upcoming Committee Assignments and Goals** Chairperson, Ash Kalra, and
J. Broadbent/5052
jbroadbent@baaqmd.gov

The Executive Officer/APCO will summarize the 2013 Board of Directors Committee goals for the upcoming year.

8. **Air Quality Summary** **J. Roggenkamp/4646**
jbroadbent@baaqmd.gov
jroggenkamp@baaqmd.gov

The Deputy Air Pollution Control Officer will present an overview of air quality in the Bay Area.

9. **Administrative Overview** **J. Broadbent/5052**
J. McKay/4629
jbroadbent@baaqmd.gov
jmckay@baaqmd.gov

The Deputy Air Pollution Control Officer will provide an administrative and financial overview of the Air District.

10. **Key Policy Initiatives** **J. Broadbent/5052**
jbroadbent@baaqmd.gov

The Executive Officer/APCO will provide a summary of key policy initiatives for 2013.

11. **Production System and Website Project Update**

J. Broadbent/5052
jbroadbent@baaqmd.gov

The Executive Officer/APCO will provide an update on the production system and website project.

PUBLIC COMMENT ON NON-AGENDA MATTERS

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

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

12. Report of the Executive Officer/APCO
13. Chairperson's Report
14. Time and Place of Next Meeting is Wednesday, February 6, 2013, Bay Area Air Quality Management District Office, 939 Ellis Street, San Francisco, California 94109 at 9:45 a.m.
15. Adjournment

CONTACT EXECUTIVE OFFICE - 939 ELLIS STREET SF, CA 94109

(415) 749-5130
FAX: (415) 928-8560
BAAQMD homepage:
www.baaqmd.gov

- To submit written comments on an agenda item in advance of the meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- To request special accommodations for those persons with disabilities. Notification to the Executive Office should be given at least 3 working days prior to the date of the meeting so that arrangements can be made accordingly.
- 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 Air District's headquarters at 939 Ellis Street, San Francisco, CA 94109, at the time such writing is made available to all, or a majority of all, members of that body. Such writing(s) may also be posted on the Air District's website (www.baaqmd.gov) at that time.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109
(415) 749-4963

EXECUTIVE OFFICE:
MONTHLY CALENDAR OF DISTRICT MEETINGS

JANUARY 2013

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Special Board of Directors Meeting/Retreat <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	16	9:45 a.m.	San Jose City Hall 200 East Santa Clara Street San Jose, CA 95113
Board of Directors Executive Committee <i>(Meets 3rd Monday of each Month)</i> - CANCELLED	Monday	21	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Stationary Source Committee <i>(Meets the 3rd Monday of Every Other Month)</i> - CANCELLED	Monday	21	10:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(Meets the 4th Wednesday of each Month)</i>	Wednesday	23	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee <i>(Meets 4th Thursday of each Month)</i>	Thursday	24	9:30 a.m.	4 th Floor Conf. Room

FEBRUARY 2013

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Executive Committee <i>(Meets 3rd Monday of each Month)</i>	Monday	4	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Stationary Source Committee <i>(Meets the 3rd Monday of Every Other Month)</i>	Monday	4	10:30 a.m.	4 th Floor Conf. Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	6	9:45 a.m.	Board Room
Board of Directors Personnel Committee <i>(Meets At the Call of the Chair)</i>	Monday	11	9:30 a.m.	4 th Floor Conf. Room
Advisory Council Regular Meeting <i>(Meets 2nd Wednesday of each Month)</i>	Wednesday	13	9:00 a.m.	Board Room
Board of Directors Executive Committee <i>(Meets 3rd Monday of each Month)</i> - CANCELLED	Monday	18	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Stationary Source Committee <i>(Meets the 3rd Monday of Every Other Month)</i> - CANCELLED	Monday	18	10:30 a.m.	4 th Floor Conf. Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	20	9:45 a.m.	Board Room

FEBRUARY 2013

**Board of Directors Budget & Finance
Committee** *(Meets the 4th Wednesday of each
Month)*

Wednesday

27

9:30 a.m.

4th Floor
Conf. Room

**Board of Directors Mobile Source
Committee** *(Meets 4th Thursday of each Month)*

Thursday

28

9:30 a.m.

4th Floor
Conf. Room

MM – 1/9/13 (10:00 a.m.)

P/Library/Forms/Calendar/Calendar/Moncal

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Ash Kalra and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 2, 2013

Re: Minutes of the Board of Directors Regular Meeting of December 19, 2012

RECOMMENDED ACTION

Approve the attached draft minutes of the Board of Directors Regular Meeting of December 19, 2012.

DISCUSSION

Attached for your review and approval are the draft minutes of the Board of Directors Regular Meeting of December 19, 2012.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Sean Gallagher
Reviewed by: Ana Sandoval

Attachments

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
(415) 749-5000

Board of Directors Regular Meeting
Wednesday, December 19, 2012

DRAFT MINUTES

CALL TO ORDER

Chairperson John Gioia called the meeting to order at 9:49 a.m.

ROLL CALL

Present: Chairperson John Gioia; Vice Chairperson Ash Kalra; Secretary Nate Miley and Directors Susan Adams, John Avalos, Susan Gorin, Carole Groom, Scott Haggerty, David E. Hudson, Liz Kniss, Eric Mar, Mark Ross, Jim Spering, Brad Wagenknecht, Ken Yeager and Shirlee Zane.

Absent: Directors Tom Bates, Susan Garner, Jennifer Hosterman, Carol L. Klatt, Edwin M. Lee and Mary Piepho.

PLEDGE OF ALLEGIANCE

Director Spering led the Pledge of Allegiance.

OPENING COMMENTS: None.

PUBLIC COMMENT ON NON-AGENDA MATTERS: None.

PROCLAMATIONS/AWARDS

Jack Broadbent, Executive Officer/Air Pollution Control Officer (APCO), and Chairperson Gioia presented an Award of Appreciation to Tom Cackette, Chief Deputy Executive Officer, California Air Resources Board, on behalf of the Air District. Mr. Cackette addressed the Board in appreciation.

NOTED PRESENT: Director Kniss was noted present at 9:59 a.m.

Chairperson Gioia recognized outgoing Directors Garner and Hosterman in absentia for their service, leadership and dedication in protecting air quality in the Bay Area.

Chairperson Gioia and Mr. Broadbent recognized outgoing Director Kniss for her service, leadership and dedication in protecting air quality in the Bay Area. Director Kniss addressed the Board in appreciation.

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

Chairperson Gioia recognized former Director Katie Rice for her service, leadership and dedication in protecting air quality in the Bay Area. Supervisor Rice addressed the Board in appreciation.

NOTED PRESENT: Director Zane was noted present at 10:09 a.m.

Chairperson Gioia introduced newly appointed Director Adams from the County of Marin.

NOTED PRESENT: Director Gorin was noted present at 10:11 a.m.

Chairperson Gioia recognized outgoing Director Gorin for her service, leadership and dedication in protecting air quality in the Bay Area. Director Gorin addressed the Board in appreciation.

Director Yeager recognized Stanley Yamaichi, Supervising Air Quality Instrument Specialist, who completed the milestone of thirty-five (35) years of service with the Air District during this second half of the calendar year. Mr. Yamaichi addressed the Board in appreciation.

Director Miley recognized Michael Bostick, Air Quality Inspector, who completed the milestone of twenty-five (25) years of service with the Air District during this second half of the calendar year. Mr. Bostick addressed the Board in appreciation.

Director Groom recognized Jason Chen, Programmer Analyst, who completed the milestone of twenty-five (25) years of service with the Air District during this second half of the calendar year. Mr. Chen addressed the Board in appreciation.

Director Groom recognized Douglas Tolar, Senior Air Quality Specialist, who completed the milestone of twenty-five (25) years of service with the Air District during this second half of the calendar year. Mr. Tolar addressed the Board in appreciation.

Director Adams recognized Judith Cutino, Senior Air Quality Engineer, who completed the milestone of twenty-five (25) years of service with the Air District during this second half of the calendar year. Ms. Cutino addressed the Board in appreciation.

Chairperson Gioia recognized Douglas Hall, Supervising Air Quality Engineer, who completed the milestone of twenty-five (25) years of service with the Air District during this second half of the calendar year. Mr. Hall addressed the Board in appreciation.

Chairperson Gioia recognized Jorge Franco, Air Quality Inspector, who completed the milestone of twenty-five (25) years of service with the Air District during this second half of the calendar year. Mr. Franco addressed the Board in appreciation.

Chairperson Gioia recognized Jeannette Lim, Supervising Air Quality Inspector, Tony Gambardella, Supervising Air Quality Specialist, and David Fairley, Statistician, in absentia, for their completion of milestone years of service with the Air District during this second half of the calendar year.

CONSENT CALENDAR (ITEMS 1 – 4)

- 1. Minutes of the Board of Directors Special Meeting of December 5, 2012;**
- 2. Board Communications Received from December 5, 2012, through December 18, 2012;**
- 3. Authorize Expenditures for the Implementation of the Production System; and**
- 4. Proposed Regulatory Agenda for 2012.**

Board Comments: None.

Public Comments: None.

Board Action: Director Wagenknecht made a motion to approve Consent Calendar Items 1, 2, 3 and 4; Director Yeager seconded; and the motion was unanimously approved without objection.

COMMITTEE REPORT AND RECOMMENDATIONS

- 5. Report of the Executive Committee Meeting of December 17, 2012**
Chairperson J. Gioia

The Committee met on Monday, December 17, 2012, and approved the minutes of October 22, 2012.

The Committee received from Thomas M. Dailey, M.D., Chairperson of the Hearing Board, the Quarterly Report of the Hearing Board for July through September 2012, including summaries of the cases and fees collected.

The Committee considered the staff presentation on Real Estate Broker Selection for Disposition of 939 Ellis Street, including an update on 390 Main Street building negotiations, request for proposals scope, process and scores, commission fees and recommendation. The committee discussed the need to ensure that the Air District's obligations to the broker are appropriately limited in the case that the District should withdraw from the marketing process following the listing. The Committee recommends the Board authorize the Executive Officer/APCO to enter into a contract with Cassidy Turley, including contingencies for withdrawal from the offer process, to develop marketing strategies for disposition of 939 Ellis Street.

The Committee considered the staff presentation to Authorize Additional Funding for Web Site and Production System Integration, including progress to date, next steps, direction for 2013, resources needed and recommendations. The Committee recommends the Board authorize the Executive Officer/APCO to amend the existing contract with Lightmaker, Inc., by \$120,000, increase the Information Services fiscal year 2012 – 2013 budget by \$200,000, and authorize the Executive Officer/APCO to enter into contracts for services not to exceed \$200,000, with IntelliBridge Partners, Inc.

The Committee received the staff presentation on the Regional Plug-in Electric Vehicle Plan, including an overview of the key elements required by the United States Department of Energy grant which funded the plan, a summary of local government readiness findings, the regional siting analysis for public charging, implementation actions to be undertaken by regional agencies and next steps.

The next meeting of the Committee is in January 2013, at the call of the Chair.

Board Comments: None.

Public Comments: None.

Board Action: Chairperson Gioia made a motion to approve the report and recommendations of the Executive Committee; Director Wagenknecht seconded; and the motion was unanimously approved without objection.

PUBLIC HEARING

6. Continuation of the Public Hearing to Consider Adoption of Proposed Amendments to Air District New Source Review (NSR) and Title V Permitting Regulations (Regulation 2, Rules 1, 2, 4 and 6) and Adoption of a California Environmental Quality Act (CEQA) Environmental Impact Report (EIR)

Mr. Broadbent introduced Alexander Crockett, Assistant Counsel of Counsel's Office, who gave the staff presentation Updates to BAAQMD New Source Review and Title V Permitting Programs, Proposed Amendments to Regulation 2 - Rules 1, 2, 4, and 6, including a summary of existing permitting programs, regulatory developments, proposed amendments, public outreach and significant input, EIR, proposed effective date and proposed resolution.

Board Comments:

Director Ross asked about the nature and resolution of concerns expressed by Valero Refining, which questions were answered by Mr. Crockett.

Director Hudson asked about the phrase "except greenhouse gases" in slide #25, Clarification that 5 tons per year Exemption Backstop Does Not Apply to Greenhouse Gases (GHGs), and the interplay between facility size and emission levels, which questions were answered by Mr. Crockett.

Public Comments:

Bill Quinn, Vice President, California Council for Environmental and Economic Balance, addressed the Board in support of the proposal despite standing concerns about the definition of "modification," the non-attainment modeling test requirements and concerns about the permitting process.

Guy Bjerke, Manager, Bay Area Region & State Safety Issues, Western States Petroleum Association, echoed the comments of Mr. Quinn and expressed his additional concern regarding potential impacts to energy efficiency projects.

Board Action: Director Wagenknecht made a motion, seconded by Director Groom, to:

1. Adopt amendments to the Air District's NSR and Title V permitting programs, as set forth in the Regulation 2, Rule 1 (Permits, General Requirements), Regulation 2, Rule 2 (Permits, New Source Review), and Regulation 2, Rule 6 (Permits, Major Facility Review), effective upon final United States Environmental Protection Agency (EPA) approval;

2. Adopt amendments to the Air District's NSR and Title V permitting programs, as set forth in the Regulation 2, Rule 4 (Permits, Emissions Banking), effective immediately;
3. Certify a final EIR for the proposed amendments pursuant to the CEQA; and
4. Resolve to revisit National Ambient Air Quality Standards (NAAQS) Protection Requirement and other Fine Particulate Matter (PM_{2.5}) Requirements in the Future.

Director Spering asked about revisiting the rule with respect to the NAAQS, which question was answered by Mr. Broadbent. Mr. Broadbent recommended that updates be presented to the Stationary Source Committee approximately every six months and expressed staff's shared concern about the effect of the proposal on energy efficiency projects.

Director Spering proposed an amendment to the pending motion to include direction that staff provide periodic updates to the Board or a committee thereof. Director Wagenknecht made a motion to amend the pending motion, seconded by Director Groom, to:

1. Adopt amendments to the Air District's NSR and Title V permitting programs, as set forth in the Regulation 2, Rule 1 (Permits, General Requirements), Regulation 2, Rule 2 (Permits, New Source Review), and Regulation 2, Rule 6 (Permits, Major Facility Review), effective upon final EPA approval;
2. Adopt amendments to the Air District's NSR and Title V permitting programs, as set forth in the Regulation 2, Rule 4 (Permits, Emissions Banking), effective immediately;
3. Certify a final EIR for the proposed amendments pursuant to the CEQA;
4. Resolve to revisit NAAQS Protection Requirement and other PM_{2.5} Requirements in the Future; and
5. Direct staff to periodically present updates to the Board or a committee thereof.

The amended motion was carried unanimously without objection, with Director Adams abstaining.

PUBLIC COMMENT ON NON-AGENDA MATTERS: None.

BOARD MEMBERS' COMMENTS: None.

OTHER BUSINESS

7. Report of the Executive Officer/APCO:

Mr. Broadbent presented an update on the Winter PM_{2.5} Season; notified the Board that the next meeting of the Board will be held at San Jose City Hall; and updated the Board regarding the future Air District office at 390 Main Street.

Director Spering asked about 390 Main Street, which Mr. Broadbent answered.

8. Chairperson's Report:

Chairperson Gioia announced the reappointment of Directors Haggerty and Miley to the Board by the Alameda County Board of Supervisors.

9. Time and Place of Next Meeting:

Wednesday, January 16, 2013, San Jose City Hall, 200 East Santa Clara Street, San Jose, California 95113 at 9:45 a.m.

CLOSED SESSION

The Board adjourned to Closed Session at 11:46 a.m.

10. EXISTING LITIGATION (Government Code Section 54956.9(a))

Pursuant to Government Code Section 54956.9(a), a need existed for the Board to meet in closed session with legal counsel to consider the following case:

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.

OPEN SESSION

The Board resumed Open Session at 11:50 a.m. with no reportable action.

11. Adjournment: The Board meeting adjourned at 11:50 a.m.

Sean Gallagher
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Ash Kalra and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 2, 2013

Re: Board Communications Received from December 19, 2012 through January 15, 2013

RECOMMENDED ACTION

None; receive and file.

DISCUSSION

A list of communications directed to the Board of Directors received by the Air District from December 19, 2012 through January 15, 2013, if any, will be at each Board Member's place at the January 16, 2013 Board meeting.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Vanessa Johnson
Reviewed by: Ana Sandoval

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Ash Kalra and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 3, 2013

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

RECOMMENDED ACTION

None; receive and file.

BACKGROUND

In accordance with Section 5.4 (b) of the District's Administrative Code, Fiscal Policies and Procedures Section, the Board is hereby notified that no District personnel traveled on out-of-state business for the period December 1, 2012 through December 31, 2012. Out-of-state travel is reported in the month following travel completion.

DISCUSSION

No activity to report during this period.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: David Glasser
Reviewed by: Jack M. Colbourn

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Memorandum

To: Chairperson Ash Kalra and Members
of the Board of Directors

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 8, 2013

Re: Notices of Violation Issued and Settlements in excess of \$10,000 in December 2012

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 Violation 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. Bungler

Attachments

A. NOTICES OF VIOLATION ISSUED

The following Notice(s) of Violation were issued in December 2012:

Alameda County						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
All American Oil	V6720	Hayward	A51939A	12/13/12	2-1-302	NPS#108775 permit expired 7-1-2010
All American Oil	V6721	Hayward	A51940A	12/13/12	8-7-302.3	NPS#108775 failure to complete annual source tests 5-4-11
ARCO Service Station	V6717	Hayward	A51937A	12/3/12	8-7-302.3	NPS#100771 nozzle #2,4,8,13,14,15 multiple hose tears
ARCO Service Station	V6717	Hayward	A51937B	12/3/12	8-7-302.5	nozzle #2,4,8,13,14,15 multiple hose tears
Quick Gas N Shop	V6719	Hayward	A51938A	12/11/12	8-7-302.3	NPS#111037 ST#13049, 13051, 13052
Quick Gas N Shop	V6719	Hayward	A51938B	12/11/12	8-7-302.5	ST#13049, 13051, 13052

Contra Costa County						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Criterion Catalysts Company LP	A0227	Pittsburg	A52267A	12/11/12	2-1-302	2-1-302 operating emergency generator w/o District permit
Criterion Catalysts Company LP	A0227	Pittsburg	A52267B	12/11/12	9-8-501	9-8-501.2 failed to maintain records
Virginia Hill Auto Center	V6714	Martinez	A52585A	12/3/12	8-7-302.3	NPS#111944 6/8 nozzles tagged out of order

San Francisco County						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Caffe D'Melanio	B5641	San Francisco	A52138A	12/11/12	2-1-302	expired permit to operate
Jackson Group Property Management	V6708	San Francisco	A47943A	12/10/12	11-2-303.8	no survey performed for work on unit #8

Santa Clara County						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Cal Phase Construction, Inc.	V2294	San Jose	A52604A	12/4/12	8-40-401	failure to notify District on tank removal
Maxim Integrated Products, Incorporated	B1696	San Jose	A52010A	12/12/12	2-1-307	9 RCA's excess emission permit cond#18523sub.sec.6
Wheaten Ventures LLC	B8725	San Jose	A52603A	12/3/12	2-1-307	exceed pc#24464 limit of 40 tons per 12 consecutive months

Solano County						
Site Name	Site #	City	NOV #	Issuance Date	Regulation	Comments
Bay Area Coffee Inc	B7062	Benicia	A52708A	12/6/12	2-1-307	failure to operate A-2 abatement while roasting per p/c#23921#2
Valero Refining Company	B2611	Benicia	A52350A	12/12/12	8-33-309	8-33-309.15 incorrect placement of sample lines
Valero Refining Company	B2611	Benicia	A52350B	12/12/12	8-33-309	8-33-309.8 no inspection
Valero Refining Company - California	B2626	Benicia	A52706A	12/4/12	2-6-307	excess CO > 500 ppm per District P/C#24239 (06G93)

B. SETTLEMENTS FOR \$10,000 OR MORE REACHED

The following settlement(s) for \$10,000 or more were completed in December 2012:

1. On December 20, 2012, the District reached a settlement with Chevron USA, Inc. for \$145,600, regarding the allegations contained in the following 28 Notices of Violation:

NOV #	Issuance Date	Occurrence Date	Regulation	Comments
A48636A	6/5/08	3/24/08	1-522.6	Failed field accuracy test: failure to maintain NOx & O2 monitor
A48636B	6/5/08	3/24/08	1-522.4	Late reporting of an inop NOx and O2 CEM
A49799A	10/7/09	8/5/09	9-10-305	Excess#05N62,deviation#2283,CO excess>400 ppm@3% O2/day. S#4060(F210 A/B) instead of S#4233,#1 JHT.
A51211A	8/30/10	3/28/10	8-18-306	8-18-306.1Deviation #2491 two components on "8-18 non-repairable list" not repaired
A51213A	8/30/10	5/6/10	1-522.3	Deviation #2519 expired CEM calibration gases
A51215A	1/11/11	7/8/09	10	Subpart QQQ notifications and certifications
A51216A	1/11/11	10/25/10	1-522.4	Deviation #2675 Late reporting of inoperative monitor
A51221A	5/2/11	2/8/11	2-6-307	Dev#2833 late reporting of planned startup Title V standard conditions J.3
A51222A	5/2/11	12/8/04	2-1-301	Dev#2808 no permit for portable tank (flocculant material)
A51222B	5/2/11	12/8/04	2-1-302	Dev#2808 no permit for portable tank (flocculant material)
A51223A	5/31/11	12/12/10	1-522.3	Deviation#2796 expired CEM calibration gas on V-65
A51225A	10/25/11	7/9/11	2-6-307	Permit condition #10761 - missed carbon changeout
A51280A	9/21/10	4/15/10	2-6-307	NOx excess, PC#1162, related to CEM Excess #05S94
A51286A	3/7/11	12/1/03	2-1-301	Vendor using 400gal tote @ reverse osmosis plant w/o permit
A51286B	3/7/11	12/1/03	2-1-302	Vendor using 400gal tote @ reverse osmosis plant w/o permit
A51287A	3/7/11	10/10/08	2-6-307	PC#22641,T-1296 operating above permitted vapor pressure

NOV #	Issuance Date	Occurrence Date	Regulation	Comments
A51288A	2/1/12	1/31/11	8-5-321.3	8-5-321.3.1 Gaps >1/2in. totaling 40ft. on primary seal
A51289A	5/12/11	2/17/11	12-11-502.3.1	Flare gas samples not drawn at SISO & NISO flares
A51294A	8/4/11	4/30/11	2-6-307	Episode #05Z59, CO excess > 500ppm @ 0% O2
A51297A	3/26/12	10/12/11	9-2-301	Episode #06B82, H2S excess
A51298A	3/26/12	10/17/11	9-9-301.2	Episode #'s 06B91 & 06B89, NOx excess
A51298B	3/26/12	10/17/11	2-6-307	Failure to meet permit condition
A52227A	10/25/11	8/18/11	8-32-320	8-32-320.5 Open containers of coatings / solvents
A52227B	10/25/11	8/18/11	8-19-320.3	Open containers of coatings / solvents
A52229A	12/1/11	8/1/10	2-6-307	Inaccurate flow meter for determining throughput
A52229B	12/1/11	9/14/09	1-523.1	Non operation not reported
A52230A	12/1/11	8/4/11	10	40CFR60.482.7(f)(3)
A52230B	12/1/11	8/4/11	8-18-401	8-18-401.2 Deviation #2985 - missed LDAR component inspections
A52231A	12/1/11	12/29/10	8-18-401	8-18-401.2 deviation #2968 - missed LDAR component inspections (42)
A52231B	12/1/11	12/29/10	10	40CFR60.482.7(f)(3) components not tagged (42)
A52234A	1/11/12	1/22/06	12-11-501	12-11-401: unreported vent gas flows (NISO monthly flare reports)
A52234B	1/11/12	1/22/06	2-6-307	2-6-307: failure to submit Title V deviation report
A52238A	4/5/12	1/28/12	10	Deviation #3165 flaring due to operator error 40CFR60subpartJ (60.104(a)(1), PO #23735
A52239A	4/5/12	3/7/11	8-10-501	Deviation #3139 no monitoring and no records for process vessel depressurization
A52239B	4/5/12	3/7/11	8-10-503	Deviation #3139 no monitoring and no records for process vessel depressurization
A52243A	6/12/12	2/29/12	2-6-307	deviation #3197 late January 2012 compliance report, PC#469

NOV #	Issuance Date	Occurrence Date	Regulation	Comments
A52244A	7/10/12	3/7/12	2-1-301	Deviation #3189 Tank 1492 & 1493 not meeting flashpoint exemption
A52244B	7/10/12	3/7/12	2-1-302	Deviation #3189 Tank 1492 & 1493 not meeting flashpoint exemption
A52245A	7/10/12	4/6/12	2-1-301	Deviation #3219 Tank 3194 & 1634 not meeting API gravity & flashpoint
A52245B	7/10/12	4/6/12	2-1-302	Deviation #3219 Tank 3194 & 1634 not meeting API gravity & flashpoint

**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	Astroynamics 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
dB _L 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
DNPH	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

L_{eq}	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
QEW	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
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