

LOCATION:

California Department of Transportation
111 Grand Avenue
1st Floor, Auditorium
Oakland, California 94612

Public Meeting Agenda

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**TO SUBMIT WRITTEN COMMENTS ON AN AGENDA ITEM IN
ADVANCE OF THE MEETING GO TO:**

<http://www.arb.ca.gov/lispub/comm/bclist.php>

April 24, 2008

9:00 a.m.

Item #

08-4-1: Health Update: Effects on the Heart from Particulate Matter Exposure and a Possible Role of Genetics

Staff will update the Board on the findings of a study that investigated the linkage between fine particle-associated heart function abnormalities and a gene involved in iron metabolism. The results suggest that people who have a variant form of this gene are at least partially protected against fine particle-induced heart function changes compared to people who have the non-variant form of the gene, indicating a possible role of genetics in sensitivity to particulate matter.

08-4-2: Public Meeting to Consider a Research Proposal

Lifecycle Analysis of High- Global Warming Potential Greenhouse Gas Destruction," \$300,000, RFP No. 07-330.

08-4-3: Public Meeting to Consider the Appointments to the Research Screening Committee

The Board's legislatively mandated Research Screening Committee consists of scientists, engineers, and others knowledgeable, technically qualified, and experienced in air pollution problems. The Committee meets approximately four times a year to review proposed and completed research projects. ARB staff will propose two new members be appointed to the Committee.

08-4-4: Presentation on the Bay Area Air Quality Management District's Climate Protection Program

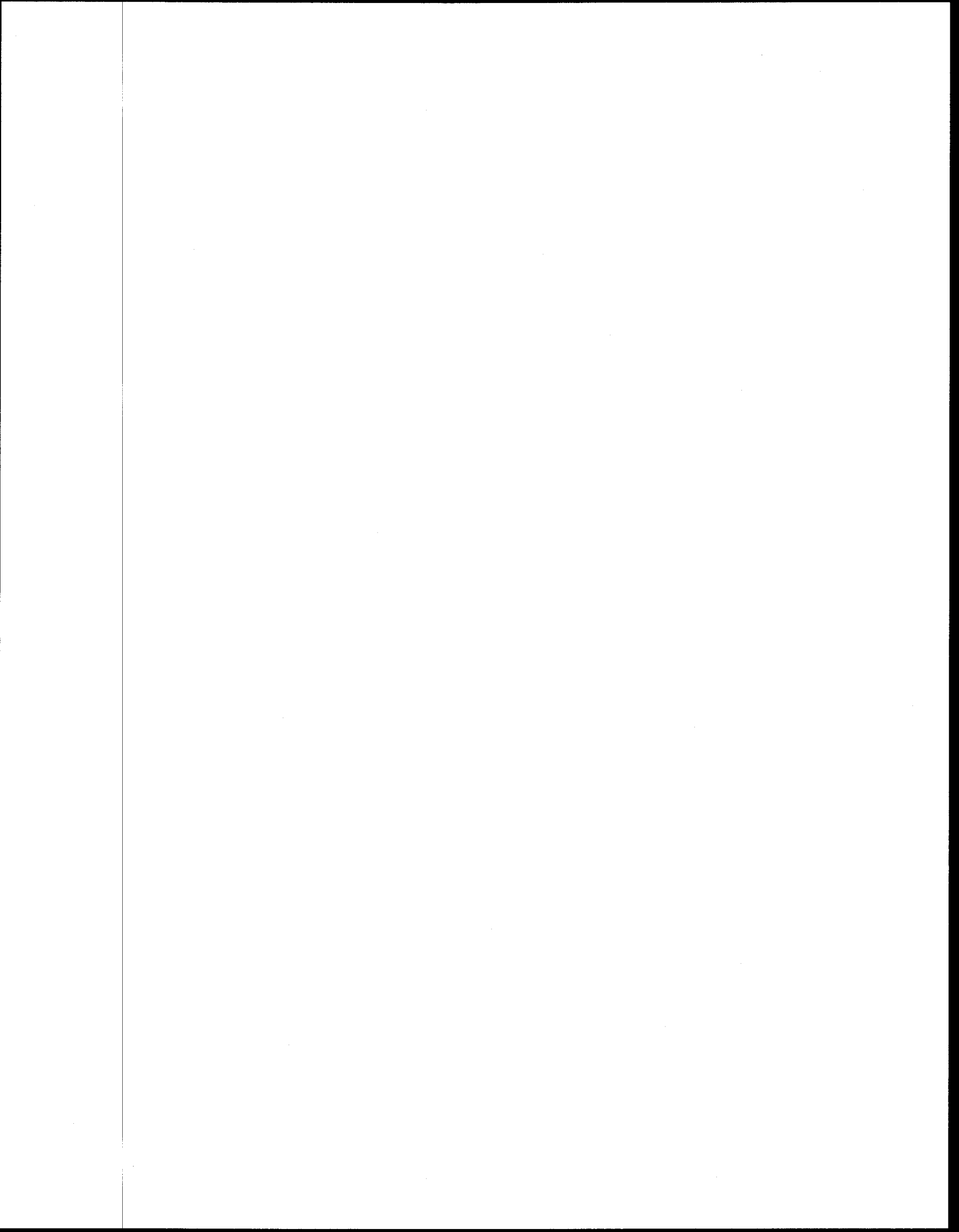
On June 1, 2005, the Bay Area Air Quality Management District initiated a climate protection program. Jean Roggenkamp, Deputy Air Pollution Control Officer, will be presenting on the Bay Area climate protection activities, including efforts such as the \$3 million grant program, 4th and 5th grade curriculum, greenhouse gas regional emission inventory, ICLEI-BAAQMD workshop series, and the greenhouse gas reduction technology study.

08-4-5: Report to the Board on AB 32 Implementation Update on Electricity and Natural Gas Sector

ARB staff will provide an update on climate change activities in the electricity and energy sector.

08-4-6: Report to the Board on Health Risk Assessment for the Port of Oakland and West Oakland Community

The staff will present the results of the comprehensive West Oakland health risk assessment, including the Port of Oakland and surrounding community in West Oakland.



08-4-7: Update the Board on the Air Resources Boards' 2006 of the Emission Reduction Plan for Ports and Goods Movement in California

Staff will provide an update on progress made in implementing the Emission Reduction Plan for Ports and Goods Movement in California (Plan) including: rulemakings, enforcement, technological development, public outreach, additional risk assessments and challenges faced.

08-4-8: Public Hearing to Consider Approval of Modified Transportation Conformity Budget Contained in the 2007 Air Quality Management Plan for Attaining the Federal 8-Hour Ozone and PM 2.5 Standard in the South Coast Air Basin

The Board will consider revisions to the conformity budgets for the South Coast Air Basin. The proposed revisions are intended to address concerns raised by the U.S. Environmental Protection Agency, and are being considered by the Board at the request of the Southern California Association of Governments and the South Coast Air Quality Management District.

08-4-9: Update the Board on the Status of the 8-Hour Ozone Plan

Staff will update the Board on the status of the federal 8-hour ozone attainment demonstration plans being prepared for the Western Mojave Desert, Ventura County, and the Sacramento Metropolitan Ozone Nonattainment Areas.

08-4-10: Report to the Board on an Update on the 2005 ARB/Railroad Statewide Agreement

Staff will provide an update to the Board on the implementation efforts for the Statewide Rail Yard Agreement. The last update was provided at the July 27, 2007, ARB meeting.

CLOSED SESSION – LITIGATION

The Board will hold a closed session as authorized by Government Code section 11126(e) to confer with, and receive advice from, its legal counsel regarding the following pending litigation:

East Yard Communities for Environmental Justice (East Yard Communities) v. ARB, Case No. CASE NO. 2:08-CV-00473-R.

Central Valley Chrysler-Jeep, Inc. et al. v. Goldstene, U.S. District Court (E.D. Cal. - Fresno), No. 1:04-CV-06663-AWI-GWA.

Fresno Dodge, Inc. et al. v. California Air Resources Board and Witherspoon, Superior Court of California (Fresno County), Case No. 04CE CG03498.

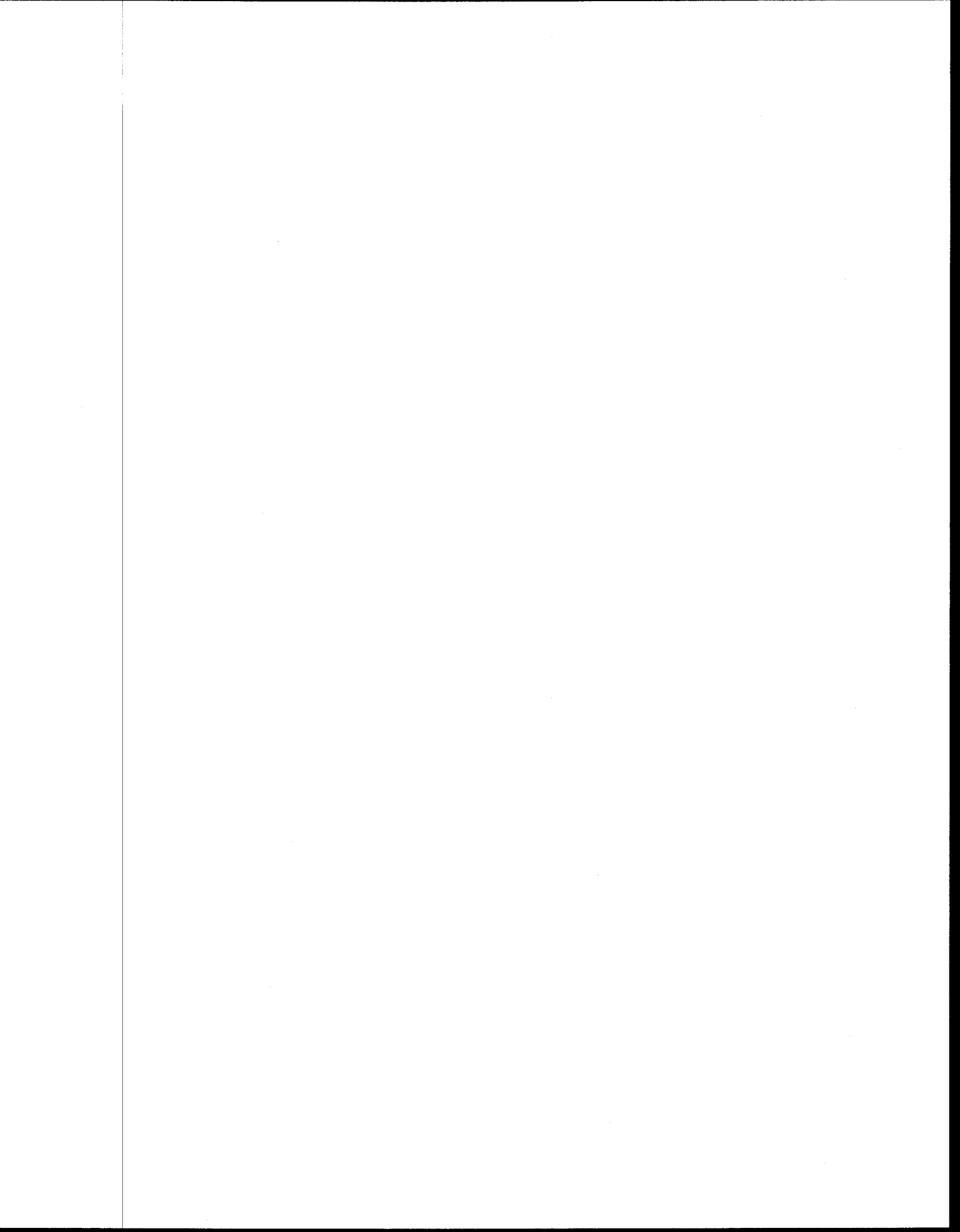
General Motors Corp. et al. v. California Air Resources Board and Witherspoon, Superior Court of California (Fresno County), Case No. 05CE CG02787.

State of California by and through Arnold Schwarzenegger, Governor of the State of California, and the California Air Resources Board v. U.S. Environmental Protection Agency and Stephen L. Johnson, Administrator, U.S. Court of Appeals (D.C. Cir.), Case No. 07-1457, filed November 8, 2007.

State of California by and through Arnold Schwarzenegger, Governor of the State of California, and the California Air Resources Board v. U.S. Environmental Protection Agency and Stephen L. Johnson, Administrator, U.S. District Court (D.C.) Case No. 07-CV-o2024-RCL, filed November 8, 2007.

State of California by and through Arnold Schwarzenegger, Governor, and the California Air Resources Board v. U.S. Environmental Protection Agency, and Stephen L. Johnson, Administrator, U.S. Court of Appeals (9th Cir.) Case No. 08-70011, filed January 2, 2008.

Green Mountain Chrysler-Plymouth-Dodge-Jeep, et al. v. Crombie, 508 F.Supp.2d 295, U.S. District Court Vermont (2007), appeal to 2nd Circuit Court of Appeals pending, Docket Nos. 07-4342-cv(L) and 07-4360-cv(CON).



OPPORTUNITY FOR MEMBERS OF THE BOARD TO COMMENT ON MATTERS OF INTEREST.

Board members may identify matters they would like to have noticed for consideration at future meetings and comment on topics of interest; no formal action on these topics will be taken without further notice.

OPEN SESSION TO PROVIDE AN OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE BOARD ON SUBJECT MATTERS WITHIN THE JURISDICTION OF THE BOARD.

Although no formal Board action may be taken, the Board is allowing an opportunity to interested members of the public to address the Board on items of interest that are within the Board's jurisdiction, but that do not specifically appear on the agenda. Each person will be allowed a maximum of three minutes to ensure that everyone has a chance to speak.

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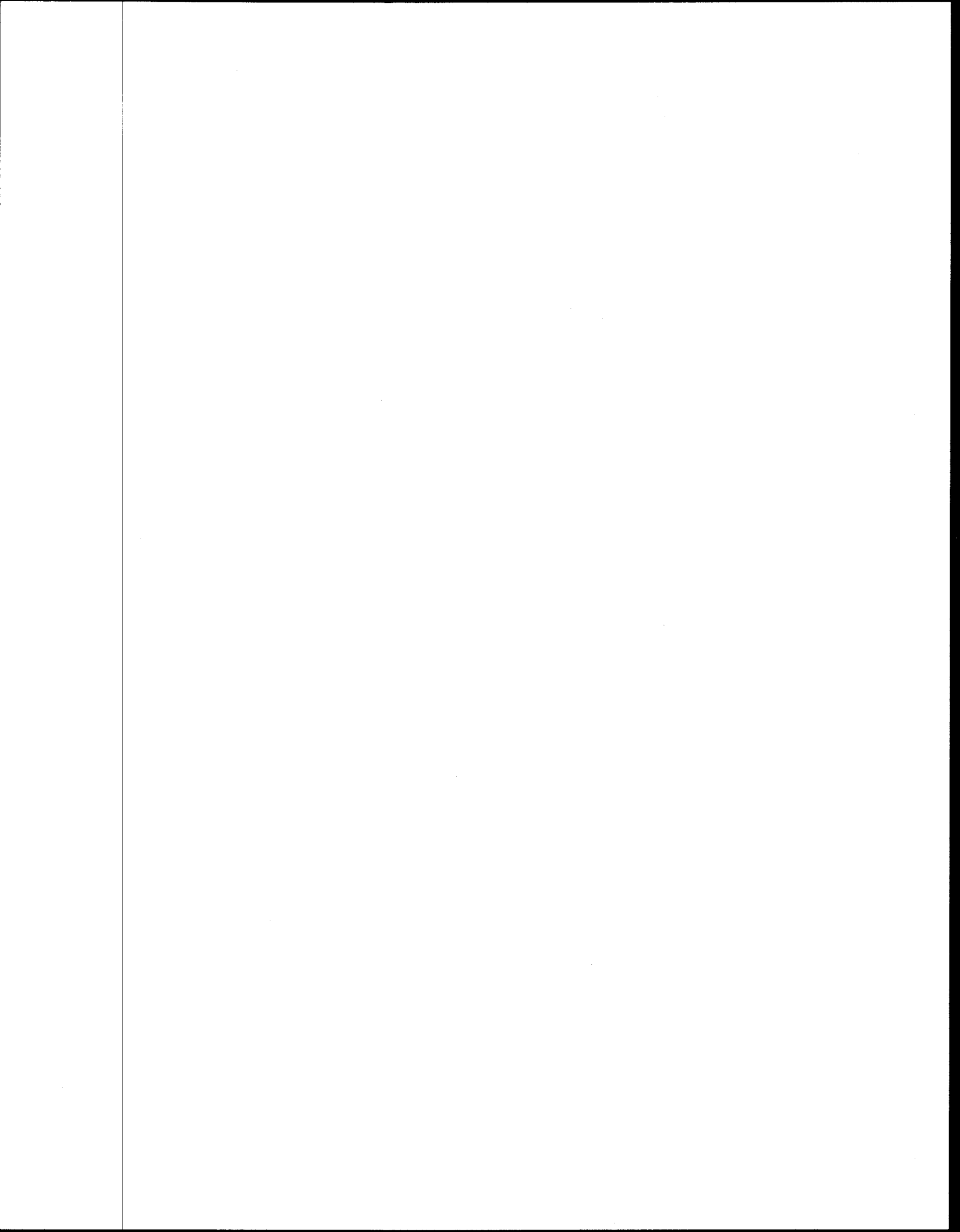
**IF YOU HAVE ANY QUESTIONS,
PLEASE CONTACT THE CLERK OF THE BOARD
1001 I Street, 23rd Floor, Sacramento, CA 95814**

**(916) 322-5594
FAX: (916) 322-3928
ARB Homepage: www.arb.ca.gov**

To request special accommodation or language needs, please contact the following:

- For individuals with sensory disabilities, this document is available in Braille, large print, audiocassette or computer disk. Please contact ARB's Disability Coordinator at 916-323-4916 by voice or through the California Relay Services at 711, to place your request for disability services.
- If you are a person with limited English and would like to request interpreter services to be available at the Board meeting, please contact ARB's Bilingual Manager at 916-323-7053.

THE AGENDA ITEMS LISTED ABOVE MAY BE CONSIDERED IN A DIFFERENT ORDER AT THE BOARD MEETING.



PUBLIC MEETING AGENDA

LOCATION:

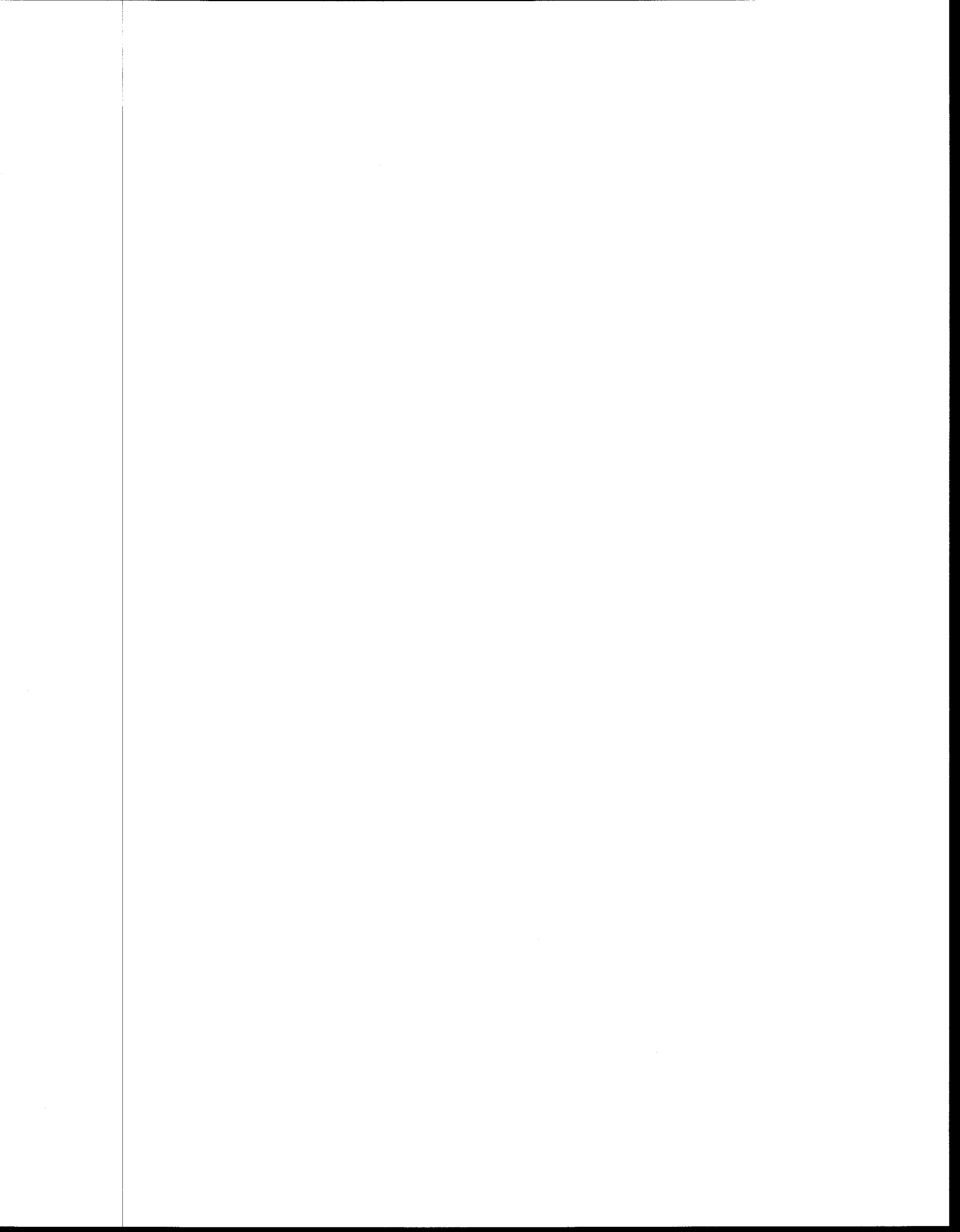
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INDEX

**April 24, 2008
9:00 a.m.**

	<u>Pages</u>
08-4-1: Health Update: Effects on the Heart from Particulate Matter Exposure and a Possible Role of Genetics	---
08-4-2: Public Meeting to Consider a Research Proposal	---
08-4-3: Public Meeting to Consider the Appointments to the Research Screening Committee	---
08-4-4: Presentation on the Bay Area Air Quality Management District's Climate Protection Program	---
08-4-5: Report to the Board on AB 32 Implementation Update on Electricity and Natural Gas Sector	---
08-4-6: Report to the Board on Health Risk Assessment for the Port of Oakland and West Oakland Community	1 - 64
08-4-7: Update the Board on the Air Resources Boards' 2006 of the Emission Reduction Plan for Ports and Goods Movement in California	65 - 68
08-4-8: Public Hearing to Consider Approval of Modified Transportation Conformity Budget Contained in the 2007 Air Quality Management Plan for Attaining the Federal 8-Hour Ozone and PM 2.5 Standard in the South Coast Air Basin	69 - 88
08-4-9: Update the Board on the Status of the 8-Hour Ozone Plan	---
08-4-10: Report to the Board on an Update on the 2005 ARB/Railroad Statewide Agreement	---



CALIFORNIA AIR RESOURCES BOARD

NOTICE OF PUBLIC MEETING TO CONSIDER A HEALTH RISK ASSESSMENT FOR THE PORT OF OAKLAND AND WEST OAKLAND COMMUNITY

The Air Resources Board (the Board or ARB) will conduct a public meeting at the time and place noted below to consider a staff presentation on the Diesel Particulate Matter Health Risk Assessment for the Port of Oakland and West Oakland Community.

DATE: April 24, 2008

TIME: 9:00 a.m.

PLACE: California Department of Transportation
111 Grand Avenue
1st Floor, Auditorium
Oakland, California 94612

This item will be considered at a one-day meeting of the Board, which will commence at 9:00 a.m., April 24, 2008. Please consult the agenda for the meeting, which will be available at least 10 days before April 24, 2008, to determine the order of agenda items.

For individuals with sensory disabilities, this document is available in Braille, large print, audiocassette or computer disk. Please contact ARB's Disability Coordinator at 916-323-4916 by voice or through the California Relay Services at 711, to place your request for disability services. If you are a person with limited English and would like to request interpreter services, please contact ARB's Bilingual Manager at 916-323-7053.

This presentation will provide the preliminary summary of results of the diesel particulate (diesel PM) health risk assessment that was conducted in cooperation with the Bay Area Air Quality Management District, the Maritime Port of Oakland, and the Union Pacific Railroad. The purpose of the study was to better understand the emissions impacts and the potential public health risk from exposures to diesel PM due to activities at the Maritime Port of Oakland and other significant sources of diesel exhaust in and near the West Oakland community and to provide information to help evaluate the effectiveness of possible mitigation measures.

ARB staff will present an oral report at the meeting. This presentation will describe the study design, explain results of the study, provide key findings, and discuss projected future emissions and risk levels with implementation of adopted and planned regulations. Documents related to this presentation are available at <http://www.arb.ca.gov/ch/communities/ra/westoakland/westoakland.htm>.

Interested members of the public may also present comments orally or in writing at the meeting, and in writing or by email before the meeting. To be considered by the Board, written comments and email submissions not physically submitted at the meeting must be received **no later than 12:00 noon, April 23, 2008**, and addressed to the following:

Postal mail: Clerk of the Board, Air Resources Board
1001 I Street, Sacramento, California 95814

Electronic submittal: <http://www.arb.ca.gov/lispub/comm/bclist.php>

Facsimile submittal: (916) 322-3928

Please note that under the California Public Records Act (Government Code section 6250 et seq.), your written and oral comments, attachments, and associated contact information (e.g., your address, phone, email, etc.) become part of the public record and can be released to the public upon request. Additionally, this information may become available via Google, Yahoo, and other search engines.

The Board requests, but does not require 30 copies of any written submission. Also, the ARB requests that written and email statements be filed at least 10 days prior to the meeting so that ARB staff and Board members have time to fully consider each comment. Further inquiries regarding this matter should be directed to Dan Donohoue, Chief, Emissions Assessment Branch, (916) 322-6023 or ddonohou@arb.ca.gov.

CALIFORNIA AIR RESOURCES BOARD



James N. Goldstene
Executive Officer

Date: April 8, 2008

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.arb.ca.gov

DRAFT

**DIESEL PARTICULATE MATTER HEALTH RISK ASSESSMENT
FOR THE WEST OAKLAND COMMUNITY**

Preliminary Summary of Results



**March 19, 2008
State of California
AIR RESOURCES BOARD**

California Environmental Protection Agency

 **Air Resources Board**

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**DIESEL PARTICULATE MATTER HEALTH RISK ASSESSMENT
FOR THE WEST OAKLAND COMMUNITY
Preliminary Summary of Results**

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Acknowledgements

Air Resources Board staff extends its appreciation to representatives of the Port of Oakland, Environ Corporation, and the Bay Area Air Quality Management District for providing assistance with preparation of the emissions inventory data and spatial allocation of emissions.

The staff of the Air Resources Board has prepared this report. Publication does not signify that the contents reflect the views and policies of the Air Resources Board.

**DIESEL PARTICULATE MATTER HEALTH RISK ASSESSMENT
FOR THE WEST OAKLAND COMMUNITY
Preliminary Summary of Results**

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
I. INTRODUCTION, KEY FINDINGS, and RECOMMENDATIONS	1
A. Introduction.....	1
B. Key Findings	2
C. Recommendations.....	4
II. BACKGROUND AND STUDY OVERVIEW.....	8
A. West Oakland Community Health Risk Assessment Study Overview....	9
III. PRELIMINARY SUMMARY OF RESULTS	23
A. Potential Cancer Risk.....	23
B. Non-Cancer Health Impacts.....	36
C. Uncertainty and Limitations	38

References

Appendices

Appendix A: West Oakland Community Health Risk Assessment Emission Inventory Summary

The following Appendices are available on-line at
<http://www.arb.ca.gov/ch/communities/ra/westoakland/westoakland.htm>

Appendix B: Additional Potential Cancer Risk Isopleths and Data Summaries for Port Operations (Part I), UP Oakland Railyard (Part II), and Non-Port/Non-UP Activity (Part III)

Appendix C: Draft Health Risk Assessment for the Union Pacific Railroad Oakland Railyard

Appendix D: Emission Inventory for Part III

Appendix E: Growth and Control Factors for Forecasted Emissions Inventory

<u>List of Tables</u>	<u>Page</u>
TABLE 1	Sources of Diesel PM Evaluated in the HRA.....12
TABLE 2	Summary of Modeled 2005 Diesel PM Emissions for the West Oakland HRA.....14
TABLE 3	Summary of 2005 and Projected 2010, 2015, and 2020 Diesel PM Emissions for the West Oakland HRA.....16
TABLE 4	Temporal Distribution of Diesel PM Emissions for the West Oakland HRA18
TABLE 5	West Oakland Community Summary of Impacted Area and Affected Population by Potential Cancer Risk Levels from All Emission Sources (2005).....25
TABLE 6	West Oakland Community Summary of Impacted Area and Affected Population by Potential Cancer Risk Levels from Part I, II, & III Emission Sources (2005).....25
TABLE 7	Population-weighted Potential Cancer Risks in West Oakland Community by Part and by Source Category27
TABLE 8	Relative Change in Potential Cancer Risk per Ton of Diesel PM Emissions Reduced (2005)29
TABLE 9	ARB Regulations Adopted and Planned (2008) that Reduce Emissions from On- and Off-road Diesel-fueled Vehicles and Equipment31
TABLE 10	Summary of Impacted Regional Area and Affected Population by Potential Cancer Risk Levels from the Maritime Port of Oakland Activities34
TABLE 11	Estimated Non-cancer Health Impacts Resulting from Maritime Port of Oakland 2005 Diesel PM Emissions37

List of Figures		Page
Figure 1	Aerial Map of the West Oakland Community.....	1
Figure 2	Percent Contribution to the West Oakland Community Potential Cancer Risk by Source Category for the Combined Part I, II, & III Diesel PM Emissions.....	3
Figure 3	Percent Contribution to the West Oakland Community Potential Cancer Risk by Source Category for the Part I, II, & III Diesel PM Emissions.....	4
Figure 4	Modeling Domain for the West Oakland Community Health Risk Assessment.....	10
Figure 5	Land-based Emissions Domain for Parts I, II, and III.....	11
Figure 6	Overwater-based Emissions Domain for Parts I and III.....	12
Figure 7	Spatial Allocation of Harbor Craft Diesel PM Emissions in the San Francisco Bay Area.....	17
Figure 8	Location of Meteorological Stations Providing Meteorological Data for the West Oakland Community HRA.....	19
Figure 9	Illustration of Complex Terrain and Wind Flow Patterns in the San Francisco Bay Area.....	20
Figure 10	Estimated West Oakland Community Potential Cancer Risk from All Diesel PM Emissions Sources (Parts I, II, & III).....	24
Figure 11	Population-weighted Potential Cancer Risks by All Sources/Parts for West Oakland Community.....	28
Figure 12	Projected Diesel PM Emissions for All Sources Evaluated in the West Oakland Community HRA (Parts I, II, & III).....	31
Figure 13	Projected Future Population-weighted Potential Cancer Risks in the West Oakland Community Resulting from Exposures to Diesel PM from all Emission sources (Parts I, II, & III).....	32
Figure 14	Estimated Potential Cancer Risk in the Regional Domain from Port (Part I) Diesel PM Emissions Sources.....	33
Figure 15	Population-weighted Potential Cancer Risk in the Regional Domain Due to Maritime Port of Oakland Diesel PM Emissions.....	34
Figure 16	Projected 2010, 2015, and 2020 Diesel PM Emissions for Port (Part I) Source Categories.....	35
Figure 17	Projected Population-weighted Potential Cancer Risk by Category for Port Operations in the Regional Domain.....	36

I. INTRODUCTION, KEY FINDINGS, and RECOMMENDATIONS

A. Introduction

The California Air Resources Board (ARB or Board) conducted a health risk assessment (HRA or study) to help understand the emissions impacts and the potential public health risk from exposures to diesel particulate matter (diesel PM) due to activities at the Maritime Port of Oakland and other significant sources of diesel exhaust in and near the West Oakland community. The West Oakland community is located in Oakland, California and is bounded by the Maritime Port of Oakland (the Port), the Union Pacific Railyard, and the I-580, I-880, and I-980 freeways. Approximately 22,000 people reside in West Oakland and, as trade through the Port has increased, many residents have voiced concerns about the health impacts from exposures to diesel exhaust. An aerial photograph of the West Oakland community is provided in Figure 1.

Figure 1: Aerial Map of the West Oakland Community



This study was a cooperative effort between the ARB and the Bay Area Air Quality Management District (BAAQMD). Both the Port and the Union Pacific (UP) Railroad assisted by providing information on their local marine and rail operations located near the West Oakland community. The study was designed to enhance our understanding of diesel PM emission impacts by evaluating the current and future contributions of diesel PM emissions from sources at the Port, the Union Pacific Railyard, local freeways

and other sources of diesel PM near the West Oakland community on the potential health impacts for people living in the West Oakland community. This information will assist in the efforts underway to reduce diesel PM emissions by helping to identify the sources that have the greatest impact on potential cancer risks to nearby residents and by providing a tool that will allow evaluation of the impacts of measures adopted, planned, and under development that are designed to reduce diesel PM emissions. In addition, the information from this study is being used to satisfy Union Pacific Railroad and ARB's commitment under the Statewide Railroad Agreement (CARB, 2005) wherein health risk assessments are required for each major railyard. This HRA fulfills that commitment for the Union Pacific Railroad's Oakland Railyard.

This report provides a preliminary summary of the results from the study in a less technical and more easily understood format. A more comprehensive and technical report that provides a description of the supporting technical basis for the study and a more comprehensive summary of the results is also under development and will be available in June 2008 at <http://www.arb.ca.gov/ch/communities/ra/westoakland/westoakland.htm>. We do not expect the final comprehensive report to impact the findings in this preliminary summary report.

B. Key Findings

The ARB conducted a HRA to help understand the emissions impacts and the potential public health risk from exposures to diesel PM associated with activities at the Port, the UP Railyard, and other significant sources of diesel exhaust in and near the West Oakland community. The impacts from diesel PM emissions on the West Oakland community as well as on the broader regional San Francisco Bay Area were evaluated. As will be described later in this report, the diesel PM emission sources were allocated to three Parts. Part I included the diesel PM emissions from Port operations; Part II encompassed activities at the UP Railyard; and Part III included other diesel PM emissions from activities not included either in Part I or Part II such as ocean-going vessels (OGV) destined for San Francisco Bay ports other than the Port of Oakland, on-road heavy-duty trucks not transporting goods to and from the Port, harbor craft such as the commercial ferries used to transport passengers across the bay, and local distribution centers in and near the West Oakland community.

The key findings that can be drawn from the study are:

- The West Oakland community is exposed to diesel PM ambient concentrations that are almost three times the average background diesel PM ambient concentrations in the BAAQMD.
- The estimated lifetime potential cancer risk for residents of West Oakland from exposure to diesel PM emissions is about 1,200 excess cancers per million. This estimate assumes residents are exposed to the year 2005 levels of diesel PM emissions (Port and UP operations, and non-Port/non-UP marine and land-based diesel sources) continuously for 70 years.