

(BOS)

From: Caldeira, Rick (BOS)
Sent: Tuesday, January 20, 2015 2:41 PM
To: BOS Legislation (BOS)
Cc: Bruss, Andrea (BOS); Ausberry, Andrea
Subject: FW: Health Code Article 38 Amendment Supporting documents for BOS file
Attachments: 2014 Air Pollutant Exposure Zone Map Memo to File.docx; Air Pollution Exposure Zone Map.pdf

Importance: High

Legislative Clerks/Ms. Ausberry:

Please attachment in Legistar and include in the official file. Rick.

From: Bruss, Andrea (BOS)
Sent: Tuesday, January 20, 2015 2:25 PM
To: Caldeira, Rick (BOS)
Cc: Range, Jessica (CPC); Weintraub, June; Chawla, Colleen (DPH); Wise, Viktoriya (CPC)
Subject: FW: Health Code Article 38 Amendment Supporting documents for BOS file
Importance: High

Rick -

Please place these two attachments in File No. 140806

Ordinance amending the Health Code, Article 38, to require an enhanced ventilation system for sensitive use projects within the Air Pollutant Exposure Zone and establishing document review fees; amending the Building Code to correspond to the Health Code changes; making environmental findings, and findings under the California Health and Safety Code; and directing the Clerk of the Board of Supervisors to forward this Ordinance to the California Building Standards Commission upon final passage.

Andrea Bruss
Office of Supervisor Malia Cohen
City Hall, Room 244
(415) 554-7672
Andrea.Bruss@sfgov.org

From: Cohn, Karen (DPH)
Sent: Tuesday, January 20, 2015 1:37 PM
To: Bruss, Andrea (BOS)
Cc: Range, Jessica (CPC); Weintraub, June; Chawla, Colleen (DPH); Wise, Viktoriya (CPC)
Subject: Health Code Article 38 Amendment Supporting documents for BOS file
Importance: High

Re. File No. 14806, Ordinance No. 224-14
Amendment to Health Code Article 38

These two documents should be attached to the public record. One is the Air Pollutant Exposure Zone map, and the other is the document explaining how the APE Zone was determined.

Can you ensure that happens, or let me know if there is something else I should do to make it happen?
Thanks.

Karen Cohn, MS, CIH, Program Manager
Children's Environmental Health Promotion Program
Environmental Health Branch, Population Health Division,
San Francisco Department of Public Health
1390 Market Street, Suite 410, San Francisco, CA 94102
(415) 252-3898 Phone; (415) 252-3889 Fax
Karen.cohn@sfdph.org



MEMORANDUM

To: File

From: Planning, DPH

Date: April 9, 2014

Re: 2014 Air Pollutant Exposure Zone Map

To create the 2014 Air Pollutant Exposure Zone Map, SF Planning and SFDPH utilized dispersion modeling and feedback from outreach conducted in stakeholder communities. As a result of the feedback from environmental groups, neighborhood groups, and developers, we reevaluated the Air Pollutant Exposure Zone Map to incorporate additional criteria for the proposed updates to Article 38.

Initially, the City utilized modeling¹ prepared by BAAQMD and DPH to provide evidence in support of the Community Risk Reduction Plan and proposed updates to air quality ordinances. This work determined that evidence supports identifying city lots within the "Air Pollutant Exposure Zone" based on whether modeled air pollution exceeded either: (1) a cancer risk of greater than 100 per one million exposed, and/or (2) PM_{2.5} concentrations in excess of 10 µg/m³ (including ambient).

Based on feedback during our outreach, we further modified our "Air Pollutant Exposure Zone" criteria as follows:

1. Added a "health vulnerability layer" based on the Air District's evaluation of health vulnerability in the Bay Area. For those zip codes in the worst quintile of Bay Area Health Vulnerability scores (94102, 94103, 94105, 94124, and 94130) we lowered the standard for identifying city lots in the Air Pollutant Exposure Zone to: (1) excess cancer risk greater than 90 per one million persons exposed, and/or (2) PM_{2.5} concentrations in excess of 9 µg/m³. Note: some city lots within these zip codes were already within the Air Pollutant Exposure Zone based on the initial criterion.
2. We identified city lots within a 500-foot buffer around each freeway to protect sensitive uses from air pollutants in these areas. There is substantial evidence that, notwithstanding

¹ "The San Francisco Community Risk Reduction Plan: Technical Support Documentation"
ftp://ftp.baaqmd.gov/pub/CARE/SFCRRP/SF_CRRP_Methods_and_Findings_v9.pdf

modeling results, sensitive uses in an area within a 500-foot buffer of any freeway are at significant increased health risk related to their air pollutant exposures.² Note: some city lots within 500 feet of freeways were already within the Air Pollutant Exposure Zone based on the initial and health vulnerability criteria.

In our outreach, we answered questions about the details of the map, including:

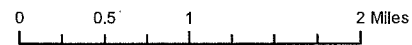
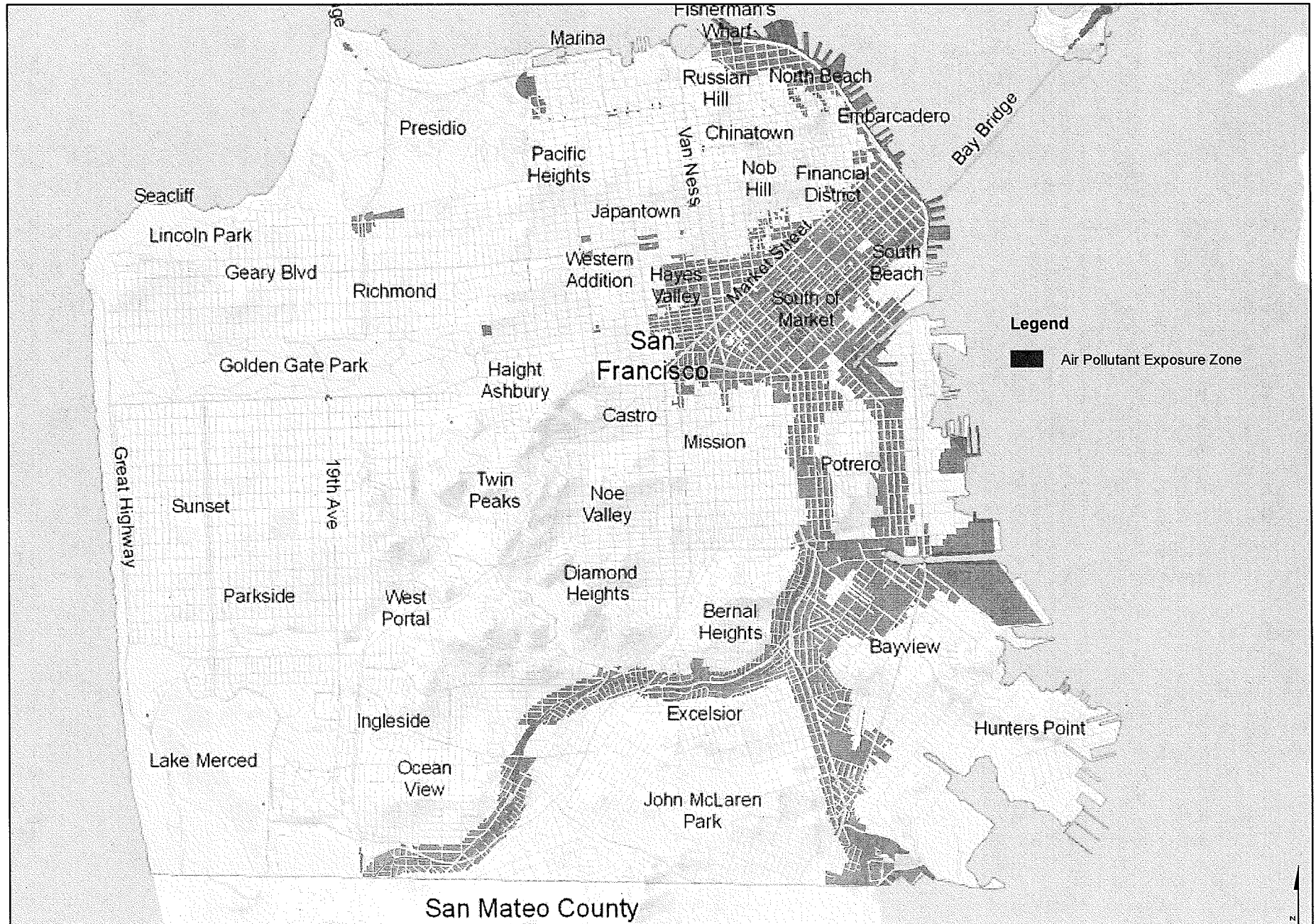
- Areas within the identified Air Pollutant Exposure Zone that are zoned Industrial may currently hold residential dwelling units which are considered existing non-conforming uses and will continue to be allowed until the use is either changed or demolished. Over time these uses will change and eventually conform to current zoning.
- Modeling took into account all known and identifiable sources of emissions (roadways, permitted stationary sources, port and maritime sources, Caltrain, and the Transit Center/Transbay Terminal bus depot). The map shows several noncontiguous parcels which are generally the result of one or more of the following conditions:
 - 19th Avenue and Lincoln Way are included because at this intersection, where there is heavier traffic and diesel bus lines compared to other cross streets along 19th Avenue, the modelling results show that PM_{2.5} exceeds the general criteria of 10 µg/m³.
 - Lake Merced exceedance is because the Oceanside Wastewater Treatment Plant (permitted source, exceeds PM_{2.5} criteria of 10 µg/m³)
 - North of the Panhandle is because of the St. Mary's Medical Center (permitted source, exceeds excess cancer risk criteria of 100)
 - North of Twin Peaks exceedance is because of the UCSF Parnassus Campus (permitted source, exceeds PM_{2.5} criteria of 10 µg/m³)
 - The Lombard Street exceedances are because of the heavier traffic along this roadway (roadway, exceeds PM_{2.5} criteria of 10 µg/m³ and/or excess cancer risk criteria of 100)
 - "Freeway" is defined using the definition in the SF General Plan, Transportation Element, and the mapping includes some areas just outside the Presidio such as the north end of Park Presidio Boulevard and by the Palace of Fine Arts.
 - The Air Pollutant Exposure Zone Map does not display all city lots that overlap with the aforementioned criterion because certain city lots are substantially large (e.g., Golden Gate Park, Lake Merced, Presidio, Balboa Park, City College of San Francisco) and identifying the entire city lot, although only one or a few receptor points within the large parcel exceed the criterion, could be misleading. In these instances, only the receptor point(s) is shown.

² California Air Resources Board, *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005. Available online at: <http://www.arb.ca.gov/ch/landuse.htm>.

- Even though the criteria for inclusion in the Air Pollutant Exposure Zone is lower in vulnerable zip codes, many stakeholders were surprised that more city lots in the Bayview neighborhood were not included in the Air Pollutant Exposure Zone Map.
 - In response to these concerns, we verified that modelled results and monitoring data are accurate and that the PM_{2.5} levels in much of this neighborhood do not exceed 9 µg/m³, demonstrating the improvements to air quality that resulted from the decommissioning of the Hunter's Point and Bayview Power Plants. Indeed, we hope that through our collaborative efforts framed by the Community Risk Reduction Plan³ future reductions in air pollutant levels throughout the city will support revision of the map to exclude other areas where air pollutant sources are reduced. For this reason, the revisions to Article 38 specify that the Air Pollutant Exposure Zone Map be updated in accordance with specific timeline and methods.

³ We are continuing to pursue the Community Risk Reduction Plan. Our outreach efforts have focused on both the legislative changes and the CRRP. In 2014 we will be making revisions to the previous CRRP draft in consultation with the Air District with the goal to release a "Draft For Public Review".

Air Pollutant Exposure Zone Map



Note: This map does not identify all city lots that overlap with the criteria identified in Article 38 of the Health Code because certain lots are substantially large (e.g., Golden Gate Park, Lake Merced, Presidio, Balboa Park, City College of San Francisco, Yerba Buena Island) and identifying the entire lot, although only one or a few receptor points within the large parcel exceed the criteria, could be misleading. In these instances, only the receptor point(s) is shown.

Printed: 10, April 2014