

CITY OF OAKLAND
AGENDA REPORT

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OFFICE OF THE CITY CLERK
OAKLAND

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TO: Office of the City Administrator
ATTN: Deborah Edgerly
FROM: Community and Economic Development Agency
DATE: June 14, 2005

RE: **RESOLUTION (1) APPROVING A NEGATIVE DECLARATION FOR THE
UPDATED *NOISE ELEMENT* OF THE OAKLAND GENERAL PLAN, AND
(2) ADOPTING THE UPDATED *NOISE ELEMENT***

SUMMARY

California state law requires that each city and county adopt a general plan to guide its physical growth and development. General plans must address locally relevant planning issues categorized under seven mandatory "elements," including a noise element. The general purpose of a noise element is to limit the exposure of the community to excessive noise levels. The document titled *Noise Element*, presently being submitted to the City Council as a draft (Attachment 1), constitutes the first update of the City's original *Noise Element*, adopted more than thirty years ago, in 1974.

An initial study (Attachment 2) prepared for the draft *Noise Element* determined that the project could not have a significant effect on the environment. Based on that determination, a negative declaration has been prepared for the *Noise Element* under the California Environmental Quality Act. The subject resolution would approve the negative declaration for the draft *Noise Element*, and adopt the updated *Noise Element*.

FISCAL IMPACT

There are no fiscal impacts to report at this time. Each of the policies and actions in the *Noise Element* would be subject to further, more detailed review prior to implementation. The *Noise Element* explicitly states that its policies and actions would only be implemented by the City if they can be accomplished successfully given financial factors (as well as environmental, legal, social and technological ones).

BACKGROUND

California state law requires that each city and county adopt a noise element to limit the exposure of the community to excessive noise levels. Noise elements are intended to address land-use-

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based noise sources such as freeways, airports and industrial clusters (but not intermittent, nuisance noises such as barking dogs and stereos, which are commonly addressed through noise ordinances). The City adopted its original *Noise Element* in 1974 and had never updated it until now. The process to update the City's *Noise Element* has consisted of several phases: research into existing conditions, analysis of background data, formulation of policy statements and, presently, review of the draft element by government-agency staff and the public, and official adoption of the final version of the element. As legally required for the preparation of a noise element, the City of Oakland analyzed and quantified, to the extent practicable, current and projected noise levels throughout the City from major mobile and stationary sources of noise using actual measurements and noise-modeling techniques. Using the measurement and modeling results, noise-contour maps (which establish the locational relationship between existing and projected land uses and noise sources) were prepared for the major noise sources.

An administrative draft *Noise Element* was distributed to various City agencies, and also to the Port of Oakland, for their review and comment before the administrative draft was developed into the attached public draft. The availability of the public draft (and also of the initial study and proposed negative declaration for the *Noise Element*) has been announced in the *Oakland Tribune* and in public notices mailed to the Community and Economic Development Agency's mailing lists of government agencies (for environmental-review purposes) and of neighborhood contacts and other interested persons. The *Noise Element* and supporting documents have been available to the public since March 29, 2005, at the Community and Economic Development Agency, at the Oakland Main Library and on the City's website. Also, several members of the public have called to request copies of the available documents.

The Planning Commission heard a report on the proposed update of the *Noise Element* at its hearing of April 20, 2005 (but decided to continue the item until its next hearing to give the public additional time to submit comments). A member of the public remarked that fly-overs to and from San Francisco International Airport (SFO) have noise impacts on Oakland, and asked why the *Noise Element* did not make reference to these impacts. In addition, several members of the public have e-mailed to request that the *Noise Element* examine noise impacts to the Glenview neighborhood from "landing patterns for the Oakland airport" and anticipated increases in air traffic.

In response to those comments, staff have noted that the primary airplane-related sources of noise are take-offs and landings rather than fly-overs. For this reason, SFO's federal and state "noise impact boundary" only affects jurisdictions that are immediately adjacent to the airport such as South San Francisco, San Bruno and Millbrae. SFO's noise impact boundary does not impact any part of Oakland. Noise levels from fly-overs are significantly lower than noise levels from take-offs and landings. In addition, it is impossible to map noise levels from fly-overs because of their sporadic and transitory nature. While SFO tries to use over-water flights as much as possible, flight paths are determined by variables such as wind speed and direction,

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weather, and aircraft size, weight and destination; in addition, flight paths are dictated by the Federal Aviation Administration, not by individual airports.

KEY ISSUES AND IMPACTS

The three key issues in relation to the *Noise Element* are the distribution of noise levels throughout the City; changes over time in Oakland's noise environment; and the intended purpose and uses of the *Noise Element*. Regarding the first issue, the updated *Noise Element* concludes—because the predominant source of noise in Oakland is major traffic thoroughfares (and, to a lesser extent, railroad and airport operations)—that in Oakland, noise levels above 65 decibels occur almost exclusively in thin bands parallel to and along I-80, I-580, I-880, I-980, State Route 13 and State Route 24 (and in even thinner bands parallel to and along the Union Pacific and BART railroad tracks).

Regarding the second key issue, it is interesting that—after allowing for less sophisticated monitoring, measurement and mapping techniques in place at the time—Oakland's original *Noise Element* arrived at almost identical conclusions in 1974, the year that document was developed and adopted. In Oakland, the main sources of noise, the noise levels and the distribution of those noise levels are almost identical to conditions 30 years ago. This can be explained in part by the fact that, while traffic volumes have increased, vehicles (and even road surfaces) have become quieter over time thanks to technological innovation. It can also be explained by the fact that in largely built-out environments like the City of Oakland, it would take very large increases in road (or rail) traffic to produce a noticeable increase in noise levels, due to the physical characteristics of noise transmission and people's physical reception and perception of noise. Given the above, the updated *Noise Element* predicts that noise levels, the main sources of noise and the distribution of noise levels will again be almost identical in 2025, the time horizon chosen for the *Noise Element*. Because contours of future traffic noise levels are expected to be almost indistinguishable from existing contours, only the former were mapped in the *Noise Element*. There is no reliable data for predicting noise levels from rail and air traffic over the next 20 years.

Finally, regarding the third key issue, the *Noise Element* must, by law, be used to guide land-use planning decisions. The *Noise Element* provides two specific tools to guide land-use planning in Oakland: contour maps of roadway, railroad and airport noise, and the California Department of Health Services' receiver-based noise-compatibility guidelines (in the form of a matrix) for various land uses. The matrix illustrates the degree of acceptability of exposing specified land uses to a range of ambient-noise levels, as indicated on the noise contour maps. Therefore, the noise-contour maps are intended to be used in conjunction with the matrix as a basis for determining the acceptability of a proposed land use (that is, its compatibility with noise levels at its proposed site).

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The California *General Plan Guidelines* indicates that the matrix criteria “require a rather broad interpretation.” For one thing, noise contours should be thought of as bands of similar noise exposure, rather than as absolute lines of demarcation, due to the limited accuracy of existing noise modeling technology; for another, noise contours should be considered worst-case estimates because noise measurements do not account for noise-mitigation measures. In addition, the evaluation of proposed land uses for noise compatibility should, in general, include many factors: the type of noise source; the sensitivity of the noise receptor; the noise reduction likely to be provided by structures; the degree to which the noise source may interfere with speech, sleep or other activities characteristic of the land use; seasonal variations in noise source levels; existing outdoor ambient levels; general societal attitudes towards the noise source; prior history of the source; and tonal characteristics of the source. To the extent that any of these factors can be evaluated, the measured or computed noise-exposure values may be adjusted in order to more accurately assess local sentiments towards acceptable noise exposure.

PROJECT DESCRIPTION

As legally required for the preparation of a noise element, the City of Oakland analyzed and quantified, to the extent practicable, current and projected noise levels throughout the City from major mobile and stationary sources of noise using actual measurements and noise-modeling techniques. Using the measurement and modeling results, noise-contour maps (which establish the locational relationship between existing and projected land uses and noise sources) have been prepared for the major noise sources and are included in the *Noise Element*. Finally, the *Noise Element* contains policies and actions to reduce the community’s exposure to excess noise.

The *Noise Element* contains seven chapters and three appendices. Below are brief descriptions of the contents under each chapter. (The appendices include an inventory of the noise-related policies from other elements of the Oakland general plan and tables from the *Noise Element’s* technical background report.)

- Chapter 1, “Introduction:” Presents an overview of general plans, the noise element of a general plan and the policy statements found in any general plan element, and describes the relationship between the *Noise Element* and other elements of the Oakland general plan.
- Chapter 2, “A Noise Primer:” Covers the most common aspects of sound and noise, including descriptive terms, the measurement and human perception of sound, major sources, the concepts of propagation and attenuation, the effects on people of noise, and noise mitigation.
- Chapter 3, “Institutional Framework:” Describes the federal, state and local laws, regulations and programs governing the issue of noise.

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- Chapter 4, “Local Noise Environment:” Introduces the technical background report prepared for the *Noise Element* by the consulting firm of Illingworth & Rodkin (which included a city-wide noise-monitoring survey) and describes the major sources of noise in Oakland (namely roadways but also railroads and aircraft). Chapter 4 includes several full-color maps, which show the location of noise-monitoring sites used for the city-wide survey, and noise contours for roadways, railroads and Oakland International Airport.
- Chapter 5, “Noise-Land Use Compatibility:” Provides the framework for the City to use in assessing the acceptability of proposed land uses at their proposed sites, incorporating the noise-contour maps (from the previous chapter) in conjunction with the receiver-based noise-compatibility guidelines matrix for various land uses developed by the California Department of Health Services (DHS).
- Chapter 6, “Policy Statements:” Gives an overview of general plan policy statements, and lists the two broad goals of the *Noise Element*, and the three proposed policies, each of which has several actions to protect the community from excessive noise levels.
- Chapter 7, “Resources:” Presents a list of noise-related online resources, including several that were used to prepare the *Noise Element*.

SUSTAINABLE OPPORTUNITIES

Economic: The *Noise Element* has two broad, overarching goals, one of which is to “safeguard Oakland’s economic welfare by mitigating noise incompatibilities among commercial, industrial and residential land uses.” The policies and the noise-land use compatibility chapter in the *Noise Element* are designed to achieve that goal.

Environmental: The policies and tools in the *Noise Element* have, as an implicit goal, to prevent the deterioration of the City’s “noise environment.”

Social Equity: The second explicit goal of the *Noise Element* is to “protect Oakland’s quality of life and the physical and mental well-being of residents by reducing the community’s exposure to noise.”

DISABILITY AND SENIOR CITIZEN ACCESS

The *Noise Element* was expressly written with the needs of “noise-sensitive receptors” in mind. Noise-sensitive receptors are land uses the purpose and function of which can be disrupted or jeopardized by noise. Such land uses often house noise-sensitive populations such as children

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and the elderly, and include schools, churches, hospitals and elderly-care facilities. Understandably, noise is of special concern when it occurs near sensitive receptors.

RECOMMENDATION(S) AND RATIONALE

Staff recommends that the City Council approve the resolution approving the negative declaration for the draft *Noise Element*, and adopt the updated *Noise Element*. Oakland's original *Noise Element* was adopted in 1974, and has never been updated until now. While noise cannot be eliminated, staff believes that by incorporating, analyzing and disseminating new information as part of the updated *Noise Element*, the City can continue to prevent the community's exposure to excess noise.

ACTION REQUESTED OF THE CITY COUNCIL

Staff recommends that the City Council approve the resolution approving the negative declaration for the draft *Noise Element*, and adopt the updated *Noise Element*.

Respectfully submitted,



CLAUDIA CAPRIO

CEDA, Director of Development

Prepared by:

Niko Letunic, Project Manager

CEDA Planning and Zoning Division

APPROVED AND FORWARDED TO THE
COMMUNITY AND ECONOMIC DEVELOPMENT COMMITTEE



OFFICE OF THE CITY ADMINISTRATOR

ATTACHMENTS:

1. Draft *Noise Element* (City Council members only. However, copies are available for review and pick-up by the public at 250 Frank H. Ogawa Pl., Ste. 3315, 3rd floor, in Oakland; the document may also be viewed at the Oakland Main Library, at 125 14th Street, or on the City's website, at www.oaklandnet.com/government/NE/default.html, or it may be requested by contacting Niko Letunic at 510/238.6657 or at nletunic@oaklandnet.com)
2. April 20, 2005, City Planning Commission report, including initial study/negative declaration (Initial study/negative declaration to City Council members only. However, copies are available for review and pick-up by the public at 250 Frank H. Ogawa Pl., Ste. 3315, 3rd floor, in Oakland; the document may also be viewed at the Oakland Main Library, at 125 14th Street, or on the City's website, at www.oaklandnet.com/government/NE/default.html, or it may be requested by contacting Niko Letunic at 510/238.6657 or at nletunic@oaklandnet.com)

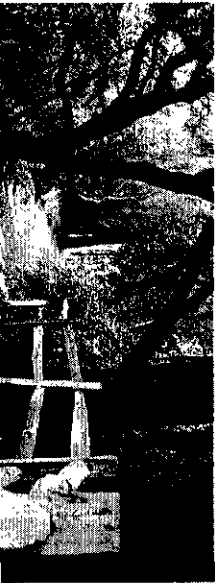
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NOISE ELEMENT

CITY OF OAKLAND GENERAL PLAN



Draft for public review; March 2005

NOISE ELEMENT

CITY OF OAKLAND **GENERAL PLAN**



City of Oakland

Community and Economic Development Agency
Planning and Zoning Division
250 Frank H. Ogawa Plaza, Suite 3315
Oakland, CA 94612
510 | 238.3941
www.oaklandnet.com

Draft for public review; March 2005

CREDITS

MAYOR AND CITY COUNCIL

Jerry Brown, mayor

Henry Chang, vice-mayor (at-large)

Jane Brunner (District 1)

Nancy Nadel (District 3)

Jean Quan (District 4)

Ignacio De La Fuente (District 5)

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COMMUNITY AND ECONOMIC DEVELOPMENT AGENCY

Claudia Cappio, Director of Development

Margaret Stanzione, Strategic Planning Coordinator

Niko Letunic, project manager

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1 | INTRODUCTION

Legislative mandate ➔ California state law requires that each city and county adopt a general plan to guide its physical growth and development. The general plan is a policy document that forms the basis for a jurisdiction’s official decisions regarding the future location of housing, business, industry, transportation facilities, parks, open space and other land uses, the conservation of natural resources, and the protection from environmental hazards. General plans must address locally relevant planning issues under various “elements,” or subject categories, including noise.

The noise element must analyze and quantify, to the extent practicable, current and projected noise levels from the following noise sources: major traffic thoroughfares, passenger and freight railroad operations, commercial and general aviation operations, industrial plants, and other ground stationary noise sources contributing to the community noise environment. Noise levels for these sources must be shown on noise contour maps prepared on the basis of noise monitoring or modeling techniques. Noise contours establish the locational relationship between existing and projected land uses and noise sources, and must be used to guide land use decisions to reduce noise impacts, especially on ➔ sensitive receptors. The noise element must include implementation measures that address any existing and foreseeable noise problems, and must serve as a guideline for complying with the state’s noise insulation standards.

➔ California Government Code, §65300-65303.4 and §65350-65362; §65302(f) for noise element requirements. The Governor’s Office of Planning and Research issues *General Plan Guidelines*, a document interpreting the legal requirements for the preparation of a general plan; Appendix C of that document contains guidelines for the preparation of the noise element.

➔ Noise-sensitive receptors are land uses whose purpose and function can be disrupted or jeopardized by noise. Sensitive receptors include residences, schools, churches, hospitals, elderly-care facilities, hotels and libraries and certain types of passive recreational open space. Understandably, noise is of special concern when it occurs near sensitive receptors.

In preparing Oakland's noise element, staff conducted a thorough review of the noise elements from the following jurisdictions: Alameda and Contra Costa counties, and the cities of Alameda, Berkeley, Emeryville, Fremont, Hayward, Los Angeles, Oakland (the 1974 element), Palo Alto, Piedmont, Pittsburg, San Francisco, San Jose, San Leandro, South San Francisco, Union City and Walnut Creek.

Updating Oakland's noise element Oakland's original noise element was adopted in 1974. Since then, Oakland's land-use patterns have changed, and its population and economy have expanded. While noise cannot be eliminated, the City believes that by updating the noise element and the policy statements in it, it can continue to protect residents' exposure to excessive noise levels. This document is meant to satisfy the state's requirements for a noise element.

Policy statements At the heart of every element of a general plan is a set of goals, objectives, policies actions or other statements which are often collectively referred to as policy statements. The purpose of policy statements is to provide direction for a city or county and guide the development-related actions and decisions of its officials. Policy statements attempt to reconcile and accommodate the diverse and often competing interests of a community and its members. Oakland's noise element contains two types of policy statements: policies and actions. Policies identify specific areas in which the city will direct efforts in order to attain its goals. Actions are detailed and implementable steps that, if feasible, the city will undertake in order to carry out the policies. There is at least one action supporting every policy, and each action lists the city agency (or agencies) expected to assume the leading role in implementing that action.

It is important to keep in mind that actions are meant to apply only to those geographic and programmatic areas over which the City of Oakland has legal authority, and that the actions will only be implemented if they can be accomplished successfully given financial, environmental, legal, social and technological factors. Also, because the various elements of the Oakland general plan contain policies that address numerous different goals, some policies might compete with each other. In deciding whether to approve a proposed project, the City's Planning Commission and City Council must balance the various policies and decide whether the project is consistent (that is, in general harmony) with the general plan overall. (Incidentally, project conflicts with the general plan do not inherently result in a significant impact on the environment under the California Environmental Quality Act, since, under the act, impacts must be related to physical changes.)

Relationship to other elements By law, the elements of a general plan must be consistent with each other. Appendix C of the State's *General Plan Guidelines* ("Guidelines for the Preparation and Content of the Noise Element of the General Plan") discusses the relationship between noise and other elements, most importantly the land use and circulation elements (which in Oakland are aggregated as the land use

and transportation element, or LUTE). Appendix C mentions that “a key objective of the noise element is to provide noise-exposure information for use in the land use element. When integrated with the noise element, the land use element will show acceptable land uses in relation to existing and projected noise contours.” Regarding the circulation element, Appendix C states that “the circulation system must be correlated with the land use element and is one of the major sources of noise. Noise exposure will thus be a decisive factor in the location and design of new transportation facilities and the possible mitigation of noise from existing facilities in relation to existing and planned land uses.” Appendix C goes on to state that “the local planning agency may wish to review the circulation and land use elements simultaneously to assess their compatibility with the noise element.”

As recommended by Appendix C of the *General Plan Guidelines*, Oakland’s noise element provides noise-exposure information—in the form of noise contours (☛ CHAPTER 4) and a land use-noise compatibility matrix (☛ CHAPTER 5)—to inform land-use decisions. (The matrix illustrates the degree of acceptability of exposing specified land uses, including sensitive land uses, to a range of ambient-noise levels, as indicated on the noise contour maps.) Also, the noise element acknowledges that transportation is the main source of noise in Oakland, and correlates noise levels with the layout of the transportation system in the form of noise contour (☛ CHAPTER 4). It should be mentioned that the LUTE contains noise-related policies on public nuisances and nuisances from incompatible land uses, the impact of truck traffic on residential neighborhoods, the development of new transportation infrastructure, the development of sites near the seaport and airport and along airport flight paths, and the location of entertainment and large-scale commercial activities. In addition, the open space, conservation and recreation element contains policy statements addressing the provision of landscape as noise screens along freeways (☛ APPENDIX A).

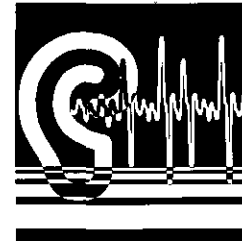
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2 | NOISE PRIMER

Description When an object vibrates, it radiates part of its energy as acoustic pressure in the form of sound waves. Noise can be thought of as sound that is intrusive, annoying or otherwise unwanted. Sound, and noise, can be described in terms of three technical variables:

- **AMPLITUDE, OR LOUDNESS**, which is the difference in pressure between the peak and the trough of a sound wave; it is measured in decibels.
- **FREQUENCY, OR PITCH**, which is the number of cycles of a sound wave per unit of time; pitch rises as the number of cycles increases and drops as it decreases.
- **TIME PATTERN**. Sounds can be continuous (as that of a waterfall), fluctuating (traffic throughout the day), intermittent (the ringing of a phone) or impulsive (a handclap).

Measurement Ambient, or community, noise is measured in decibels using the \Rightarrow A-weighted sound-pressure scale (dBA). The normal range of human hearing extends from 0 dBA to about 140 dBA (\Rightarrow TABLE 1, next page). Because sound can vary in intensity by over one trillion times within the range of human hearing, decibels are measured on a logarithmic scale, which compresses this range into a manageable set of numbers. On the logarithmic scale, sound intensity increases exponentially, so that ten decibels represents ten times more acoustic energy than one decibel but 20 decibels represents 100 more acoustic energy and 30 decibels, 1,000 times more. Also, noise sources do not combine in a simple additive fashion: if two sources produce noise levels



\Rightarrow The human ear is not equally sensitive to all frequencies of the sound spectrum. The A-weighting scale adjusts sound levels to correspond to the human hearing response by de-emphasizing the very low and very high sound frequencies that fall outside the human hearing range.

of 50 dBA each, combining them would produce a noise level of only 53 dBA, not 100 dBA (that is, a doubling in the amount of sound energy produces only a 3 dBA change).

RANGE OF HUMAN HEARING

TABLE 1

NOISE SOURCE OR ENVIRONMENT (DISTANCE OR LOCATION)	NOISE LEVEL, dBA	LOUDNESS LEVEL (COMPARED TO 70 dBA)
	140	Deafening; eardrums bleed
	< 130	Threshold of pain (64 times louder)
Jet takeoff (at 200 feet)	< 120	Threshold of physical discomfort (32 times louder)
Fire engine siren (100 ft), near stage at rock concert, table saw	< 110	Extremely loud (16 times louder)
Passing train (at platform), unmuffled motorcycle	< 100	Very loud (8 times louder)
Pile driver, jackhammer (50 ft), airliner (under flight path)	< 90	Loud; hearing damage from prolonged exposure (4 times louder)
Freeway traffic (100 ft), passing truck, vacuum cleaner	< 80	Loud; annoying and highly intrusive (twice as loud)
Passing bus (on sidewalk), street traffic (100 ft)	< 70	Moderately loud; intrusive; telephone use is difficult (reference loudness)
Dishwasher, AC unit, passing car (on sidewalk)	< 60	Moderate (half as loud)
Normal conversation, light auto traffic (100 ft), office setting	< 50	Quiet; threshold of interference with human speech (1/4 as loud)
In typical living room, background music	< 40	Very quiet; threshold of interference with sleep (1/8 as loud)
In library or in bedroom at night, soft whisper	< 30	Faint (1/16 as loud)
Rustling leaves, inside recording studio	< 20	Very faint
Human breathing	< 10	Very faint; just audible
	0	Threshold of normal hearing

Compiled by City of Oakland staff from various sources

Human perception Because of the physical characteristics of noise transmission and of noise reception by humans, the relative loudness of sounds does not closely match the actual amounts of sound energy. A change in ambient noise levels of 1-2 dBA is not audible even to sensitive receptors; a change of 3 dBA (twice the sound energy) is

considered a just-noticeable difference; a change of at least 5 dBA is necessary to elicit a noticeable change in response by the community; and it takes a change of 10 dBA to be perceived as a doubling in loudness. From this, it can be inferred that a reduction in community noise levels of 5-10 dBA is necessary to appease noise-related complaints.

Time-sensitive measurement The intrusiveness of noise depends not only on loudness but also on frequency, duration and time of day it occurs. To better gauge the impact to the community, ambient noise is measured over periods of time rather than at a given moment. The “equivalent sound level” (L_{eq}) can be thought of as the steady-state, or average, A-weighted sound level over a measurement period, typically one, eight or 24 hours. The “community noise equivalent level” (CNEL) and “day/night average sound level” (L_{dn}) are measures of the 24-hour L_{eq} reading at a given location with \ominus upward decibel adjustments, or penalties, to account for people’s increased sensitivity to noise during the evening, night and morning. L_{max} and L_{min} are the maximum and minimum noise levels during a measurement period, while L_n refers to the sound level exceeded over a percentage “n” of the measurement period (for example, an L_{75} of 60 dBA indicates that the sound level exceeded 60 dBA 75 percent of the time).

Sources Noise sources are classified as either stationary (or point) sources or as mobile sources. Common stationary sources include commercial and industrial equipment and activities (air compressors, generators and gas venting, for example); construction activities; car stereos and alarms; sporting and other entertainment events; and residential equipment and activities such as stereos, barking dogs, power tools and air-conditioning units. Stationary sources usually affect only small areas immediately adjacent to the source. Mobile sources—especially cars and trucks—are the most common and significant sources of noise in most communities. Because they stem from transportation activities, mobile sources often affect large areas along transportation corridors. The three main types of mobile noise sources are ground motor vehicles (including cars, trucks, buses, motorcycles and, more recently, motorized scooters), aircraft, and freight and passenger rail traffic. Traffic noise is generated by tire friction and wind resistance, and also by engines, mufflers, horns and sirens (in the case of emergency vehicles). Traffic noise levels depend on the speed of traffic and the percentage of trucks and, to a lesser extent, on traffic volume.

Propagation and attenuation Sound propagates, or travels outward, from its source in waves of acoustic pressure. The pattern of propagation is related to the geometry of the sound source. Sound from “point” sources (such as a piece of

\ominus For CNEL, penalties are +5 dBA for readings made in the 7-10 pm period and +10 dBA for readings in the 10 pm-7 am period. For L_{dn} , there is only a penalty of +10 dBA during the 10 pm-7 am period. In practice, L_{dn} and CNEL values are considered equivalent, as they rarely differ by more than 1 dBA.

industrial equipment) propagates in a spherical pattern around the point. Sound from sources with a linear pattern (such as a moving train or a line of closely spaced moving cars) propagates in a cylindrical pattern parallel to the line. Finally, sound from sources with a quasi-linear pattern (which is between a point and a line, such as moving cars spaced far apart), propagates in a hybrid pattern between that of a sphere and a cylinder. As the sound travels away from its source, it also attenuates, or drops off in loudness. For each doubling of distance, noise levels attenuate by approximately 6 dBA from point sources, 4.5 dBA from quasi-line sources and 3 dBA from line sources.

Effects on people Noise can have significant effects on physical and mental human health and well-being. Adverse impacts and effects include interference with speech and other forms of communication such as television and radio; sleep disruption; negative mood and behavioral changes; and hearing loss (usually temporary and caused by occupational, rather than environmental, noise). Sleep disruption and interference with communication are the main sources of noise-related community complaints. It should be mentioned that people’s tolerance to annoyance from noise is highly subjective, varying greatly among individuals.

Noise mitigation Noise impacts can be reduced by controlling the level of noise generation at the source, through site- and building-design techniques at the noise receptor, and by modifying the sound transmission path between source and receptor:

- **AT THE SOURCE:** The Federal and state governments establish uniform noise-emission standards for mobile sources and industrial and consumer machinery, while local governments may set limits on the operations of those sources and also adopt decibel-based noise-exposure guidelines for different land uses (➔ next section).
- **AT THE RECEPTOR:** Noise can be reduced by using wall sound insulation and sound-rated doors and windows; by fitting doors and windows properly and sealing openings and joints; and by locating openings in recognition of nearby noise sources (however, air conditioning might be needed for adequate ventilation).
- **TRANSMISSION PATH:** Barriers and buffers can be used to lessen noise. Reduction of traffic noise, for example, can be accomplished by placing walls or landscaped berms next to roadways, by re-routing traffic, by prohibiting residential development near major thoroughfares, and by designing building setbacks or other site features that orient dwelling units and outdoor areas away from traffic.

3 | INSTITUTIONAL FRAMEWORK

Federal Based on its authority to regulate interstate commerce, Congress enacted the 1972 Noise Control Act (NCA) to provide noise-level standards for transportation, industrial and commercial equipment. Among other provisions, the NCA specifically reaffirmed earlier preemption by federal agencies over aircraft-noise control by state and local governments. In 1990, the Airport Noise and Capacity Act again preempted state and local authority by extending Federal Aviation Administration (FAA) authority over flight patterns, landing and departure times, and other operational aspects of public and private airports and heliports. The act grandfathered existing local ordinances controlling noise at airports, but it requires that new regulations receive FAA approval.

State The California noise insulation standards regulate the maximum allowable interior noise level in new multi-unit buildings (such as apartment buildings and hotels) by specifying the extent to which walls, doors and floor/ceiling assemblies must absorb sound. The standards establish a threshold of 45 dBA (CNEL) for noise from exterior sources in any habitable room with doors and windows closed, and require preparation of an acoustical analysis for units proposed in areas with ambient-noise levels of 60 dBA or greater to ensure that the threshold is not exceeded. In Oakland, the standards are enforced by the Building Services Division of the Community and Economic Development Agency (CEDA).

California Code of Regulations, Title 24, Part 2. Title 24, Part 2 is published by the International Code Council, a non-governmental organization with sole publication and distribution rights. It may be examined free of charge at one of many "depository libraries" throughout the state, which are listed on the website of the Building Standards Commission.

NOISE ELEMENT

➤ California Vehicle Code, §27000-27007, §27150-27159 and §27200-27207.

➤ California Code of Regulations, Title 21, §5000, et seq.

California Public Utilities Code, §21670-21679.5

Oakland Municipal Code, 17.120.050 (“Performance Standards—Noise”); and 8.18.010 (“Excessive and annoying noises prohibited”) and 8.18.020 (“Persistent noises a nuisance”).

The state has established ➤ regulations—enforced by the California Highway Patrol or local law-enforcement agencies—which set limits on the operation of vehicle horns, sirens, and mufflers and exhaust systems, and which set maximum noise levels at which cars, trucks and motorcycles can be operated. The ➤ California airport noise regulations provide noise standards governing the operation of aircraft and aircraft engines for airports in the state (in California, federal and state airport-related regulations are enforced by Caltrans).

California Environmental Quality Act (CEQA) This state law requires public agencies such as the City of Oakland to identify any significant environmental effects of their “actions,” including their approval of development projects, and to mitigate such effects if feasible. When evaluating projects under CEQA, the City considers the potential for a project to, among other things, expose persons to, excessive noise levels or to result in a substantial increase in ambient noise levels .

County ➤ State law requires the establishment of airport land use commissions (ALUCs) at the county level. The main role of the ALUCs is to develop airport land-use plans (ALUPs) to advise cities and counties on the orderly expansion of public airports over a 20-year horizon and on minimizing land-use conflicts with surrounding areas over the issues of noise and building heights. Cities and counties must generally refer general plans, zoning ordinances and land-use development proposals near airports and heliports to the ALUC for determination of consistency with the ALUP. In Alameda County, the county’s Community Development Agency acts as the ALUC, monitoring Oakland International Airport, Hayward Executive Airport and Livermore Municipal Airport; it last adopted an ALUP for the county in 1986.

Oakland The Oakland Municipal Code contains numerous regulations related to noise. The most important are the ➤ noise performance standards and the nuisance noise ordinance. The noise performance standards establish maximum noise levels generated by certain activities “across real property lines” which may be received by residential, commercial, manufacturing and other specified land uses. The standards also establish maximum noise levels for both short- and long-term construction and demolition activities, and for residential air-conditioning units, residential and commercial refrigeration units, and commercial exhaust systems. The nuisance noise ordinance generally prohibits “excessive or annoying” noise.

In general, noise complaints related to the performance standards are enforced by CEDDA’s Code Enforcement Division while complaints related to “nuisance” noise—yelling, loud music or barking dogs, for example—are investigated by the Oakland Police Department (OPD also enforces noise regulations related to ground motor vehicles). In addition, the City uses the zoning ordinance and the conditional-use permit process to limit the hours of operation for noise-producing activities and to identify noise-abatement requirements. In some cases, the discretionary review procedures in the zoning regulations—such as the use permit requirement for certain activities—provide the means for case-by-case review of potentially noisy uses.

OAK Oakland International Airport (OAK) has established noise-abatement policies and procedures regarding runway use, aircraft operation and flight patterns. The airport also operates an internal noise management office which administers a variety of noise-management programs: computerized systems to monitor airport-related noise levels in surrounding communities, sound-insulation programs for residences affected by airport noise, “flying quietly” education provided to pilots, periodic public meetings to address community concerns over noise, online information on runway use and operations and Bay Area air-traffic patterns, and a ☎ noise report hotline.

OAK’s noise report hotline received 3,291 noise-related complaints in 2003. Of these, the vast majority (2,731 complaints, or 83 percent) came from Fremont and Alameda callers; Oakland callers represented just over 1.3 percent of the total (43 complaints). The hotline’s phone number is 510/577.4194; the hotline is generally staffed weekdays from 8:30 am to 5 pm (at other times, messages are recorded).

“The Oakland Police Department receives many complaints about barking dogs... Owners of barking dogs may be in violation of the Oakland Municipal Code. Violations are punishable by law and owners or keepers of animals creating a nuisance may be required to pay a fine. The Oakland Police Department investigates all complaints of barking dogs in the City of Oakland. To file a complaint or for further information, call the Oakland Police Department at 415/777.3333 24 hours a day, 7 days a week.”

—From the website of the Oakland Animal Shelter and Animal Control Field Services, a division of the Oakland Police Department

NOISE ELEMENT

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4 | LOCAL NOISE ENVIRONMENT

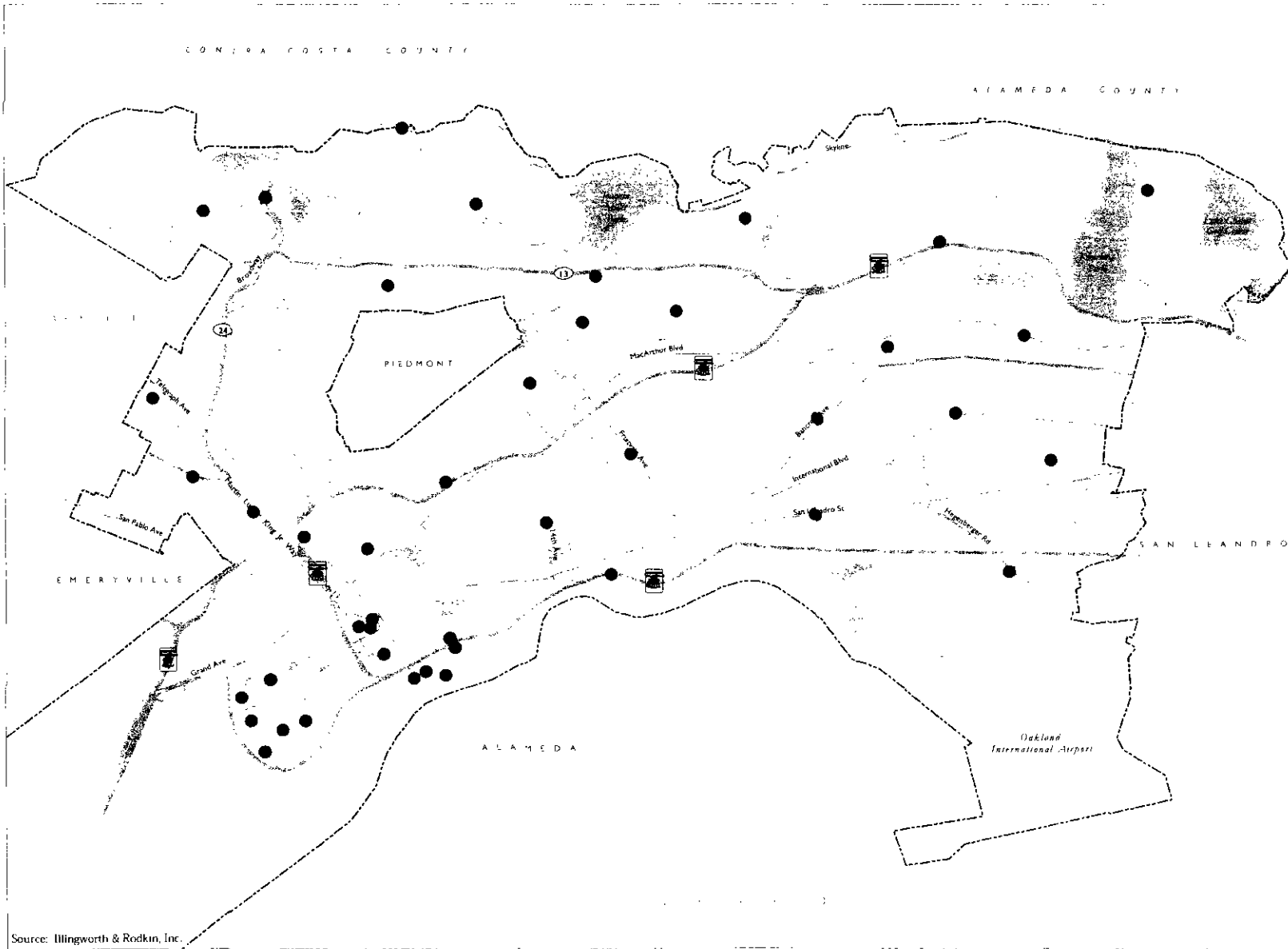
Noise sources The major noise sources in Oakland, as in most cities, are transportation activities, specifically motor-vehicle traffic on major thoroughfares, which generates noise throughout the city continuously; rail operations (including those of the Bay Area Rapid Transit, or BART), which produce significant noise levels intermittently along railroad alignments; and operations at Oakland International Airport (OAK), which produce intermittent noise along flight paths. Finally, while a number of industrial noise sources exist throughout the city (mostly in West and East Oakland) which generate noise levels above those of their surroundings, none generates sufficient noise to affect the city's overall noise environment.

Technical study In 2004, as part of updating the noise element, the City of Oakland retained the noise consulting firm of Illingworth & Rodkin to evaluate the city's noise environment. The firm conducted a city-wide noise-monitoring survey in August 2004 (supplemented with results from project-specific noise studies conducted previously in Oakland) and presented the results in a report dated December 2004. Much of the information contained in this chapter of the noise element is derived from the Illingworth & Rodkin report. (More detailed information can be found in the report itself, which forms part of the noise element by reference, and which is available from the City.)

Noise monitoring survey As mentioned above, Illingworth & Rodkin conducted a city-wide noise-monitoring survey on August 17-24, 2004 to determine the local noise environment. Noise levels were measured long-term (for 24 hours) at 12 locations in the city, and short-term (for 1 hour) at 11 additional locations. These 23 measurements were supplemented with results from 14 noise studies conducted by others between 1999 and 2003 for specific development projects in Oakland (➔ Figure 1 for noise-measurement locations). ➔ APPENDIX B contains tables summarizing information related to the long-term measurements (➔ TABLE B-1), the short-term measurements (➔ TABLE B-2), and the previously conducted measurements (➔ TABLE B-3). The measurements captured noise from a variety of both mobile and stationary sources.

Roadway noise Illingworth & Rodkin used Caltrans' noise prediction model $L_{eq}V2$ to develop noise contours (measured in L_{dn}) for the major traffic thoroughfares in Oakland (including the state and interstate freeways), employing traffic data obtained from various government agencies. The data were input into the traffic noise model for calibration with the observed noise measurements, and existing noise levels along city streets and highways were then calculated using the calibrated traffic noise model (noise levels were estimated at 75 feet from the centerline of major local thoroughfares and 150 feet from the centerline of freeways). ➔ APPENDIX B contains tables summarizing existing noise levels and noise levels predicted for the year 2025 along various local streets (➔ TABLE B-4) and freeway segments (➔ TABLE B-5). The contours of the future traffic noise levels are shown on ➔ FIGURE 2. (Contours of existing traffic noise levels were not mapped because they would not be distinguishable from future contours, given the minor changes expected to occur in noise levels over the next 20 years.) As the noise contour map shows, freeways are the main source of noise in the city, with I-580, I-880, I-980 and highways 13 and 24 generating the highest noise levels, in excess of 70 L_{dn} .

It should be noted that given L_{dn} values, including as expressed in noise contours, are considered worst-case estimates because noise measurements do not account for noise-mitigation measures (such as sound walls or berms, building setbacks, and sound-rated construction methods); for this reason, it can be assumed that areas within a given noise contour or surrounding a measurement site experience noise at below the measured levels. It should also be noted that although considerable effort goes into developing noise contours, the present modeling technology is such that the accuracy of contours is usually no better than ± 3 dB; noise contours should, therefore, not be thought of as absolute lines of demarcation on a map (such as topographical contours) but rather as bands of similar noise exposure.



**Noise Element of the
Oakland General Plan**

**Figure 1:
Noise Monitoring Locations**

- Long-term measurement
- Short-term measurement
- Previous measurement

Source: Illingworth & Rodkin, Inc.

Railroad noise There are two Union Pacific railroad right-of-ways in the city, both following north-south alignments. The two lines are parallel and near each other, contributing to cumulatively higher noise levels on the parcels between them. A typical train traveling at 25 mph may produce noise levels in excess of 95 dBA at a distance of 100 feet from the tracks, while train horns may approach 110 dBA. Brakes, coupling impacts and crossing guard warnings are additional common sources of noise along a railroad corridor. The aboveground BART lines—through West Oakland, along East 8th Street/East 12th Street/San Leandro Boulevard, along I Highway 24, and along Martin Luther King Jr Way—are additional noise sources in the city. A typical BART train produces a noise level of 85 dBA at 100 feet (noise levels are lower near the stations due to the slower speeds of approaching and departing trains). BART trains run frequently through Oakland, at a combined rate of about 40 per hour on all lines during the daytime on weekdays and about 20 per hour during the early morning and evening on weekdays and during the weekend and holidays.

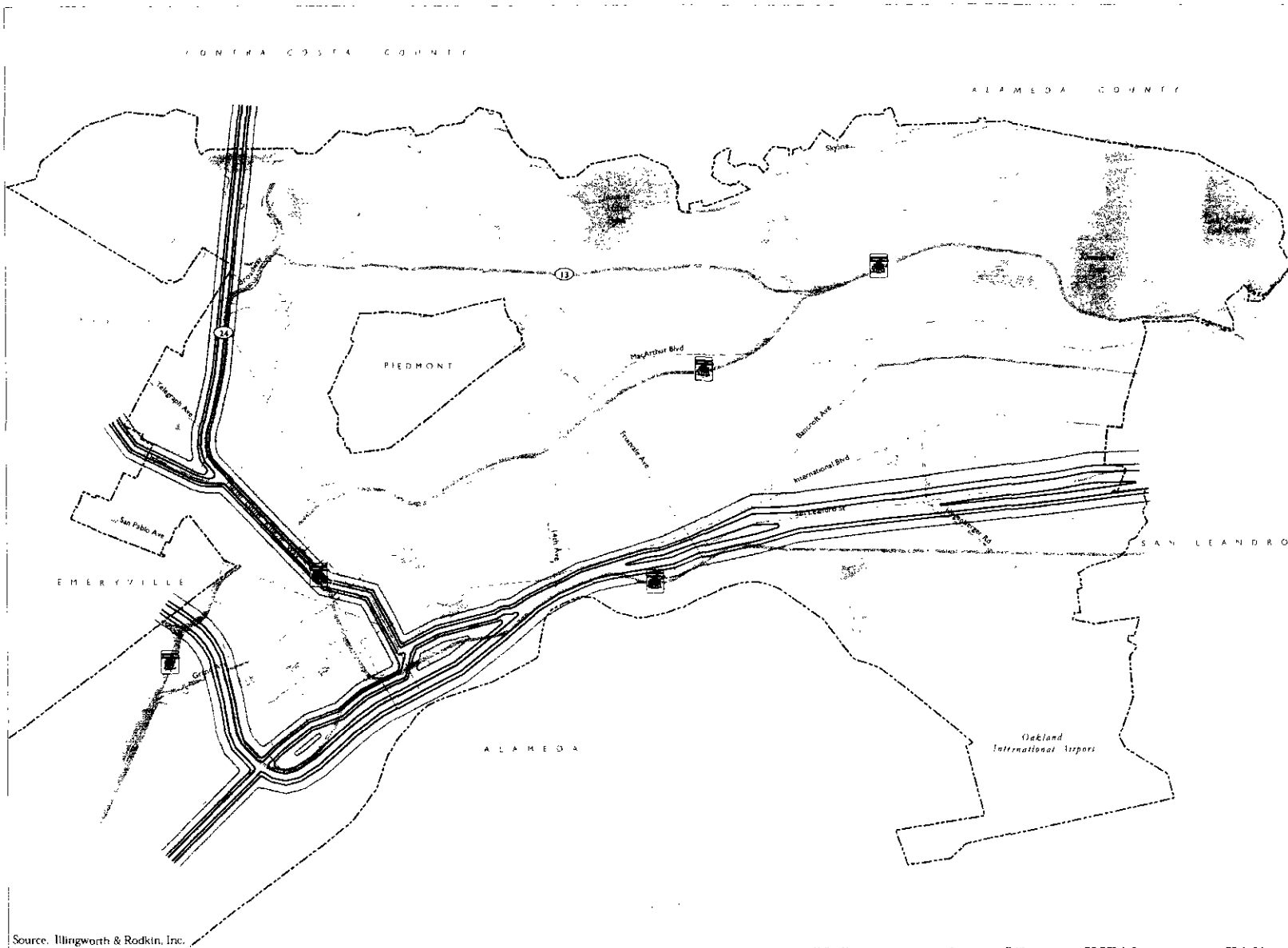
Using data collected for the San Leandro general plan update in 2000, Illingworth & Rodkin estimated noise levels along the Union Pacific and BART track alignments (including from train warning whistles) through Oakland. Distances from track centerlines to various L_{dn} levels are shown on TABLE B-6, while the noise contours are shown on FIGURE 3. (It should be remembered that noise generated by trains is intermittent, unlike noise from motor-vehicle traffic, which is continuous.) Given the unavailability of data regarding future railroad and BART operations, predicted future noise levels and noise contours along the rail corridors have not been prepared.

Aircraft noise FIGURE 4, obtained from Oakland International Airport (OAK), shows the noise contours, measured in CNEL, for existing overflight and ground airport operations (from the fourth quarter of 2004; it should be noted that noise from aircraft overflights is intermittent while noise from ground operations is relatively continuous). FIGURE 5, from the 1996 EIS/EIR for the Port of Oakland's proposed Airport Development Plan, shows the predicted CNEL contours from airport operations in the year 2010. As the maps show, noise levels in excess of 65 CNEL are primarily experienced at the airport, over water and over small areas of Bay Farm Island. In addition, it is acknowledged that airplane overflights and other airport operations affect several neighborhoods in Oakland, San Leandro and the City of Alameda that are nevertheless outside of the 65 CNEL contour.

Because the community noise equivalent level (CNEL) is the noise metric specified in the State Aeronautics Code, aircraft noise in California is described in terms of CNEL. CNEL is roughly equivalent to the day/night average sound level (L_{dn}) but includes a 5 dBA upward adjustment for the evening hours (7-10 pm).

NOISE ELEMENT

Future noise levels The noise element must analyze and quantify, to the extent practicable, both current and projected noise levels for the major sources of community noise. As described above, noise levels were predicted for the year 2025 along various local streets (☞ TABLE B-4) and freeway segments (☞ TABLE B-5) based on traffic data obtained from various government agencies. The contours of the future traffic noise levels are shown on ☞ FIGURE 2. (For the noise element, the City chose a time horizon of 20 years from the document's expected publication in 2005. While traffic studies commonly have two time horizons—10 and 20 years—community noise levels in a built-out city like Oakland would not change sufficiently in ten years to also justify this earlier time horizon. As mentioned earlier, contours of existing traffic noise levels were not mapped because they would not be distinguishable from future contours, given the minor changes expected to occur in noise levels over the next 20 years.) Future noise levels were not predicted along rail corridors because there is no reliable data on how railroad and BART operations will change over the next 20 years. Finally, ☞ FIGURE 5, shows the predicted CNEL contours from airport operations in the year 2010 (there is no reliable data for predicting airport noise contours for the year 2025).



**Noise Element of the
Oakland General Plan**

**Figure 3:
Railroad/BART Noise Contours
(Year 2000)**

- 70 Ldn contour
- 65 Ldn contour
- 60 Ldn contour

Source: Illingworth & Rodkin, Inc.

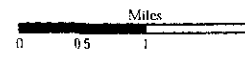
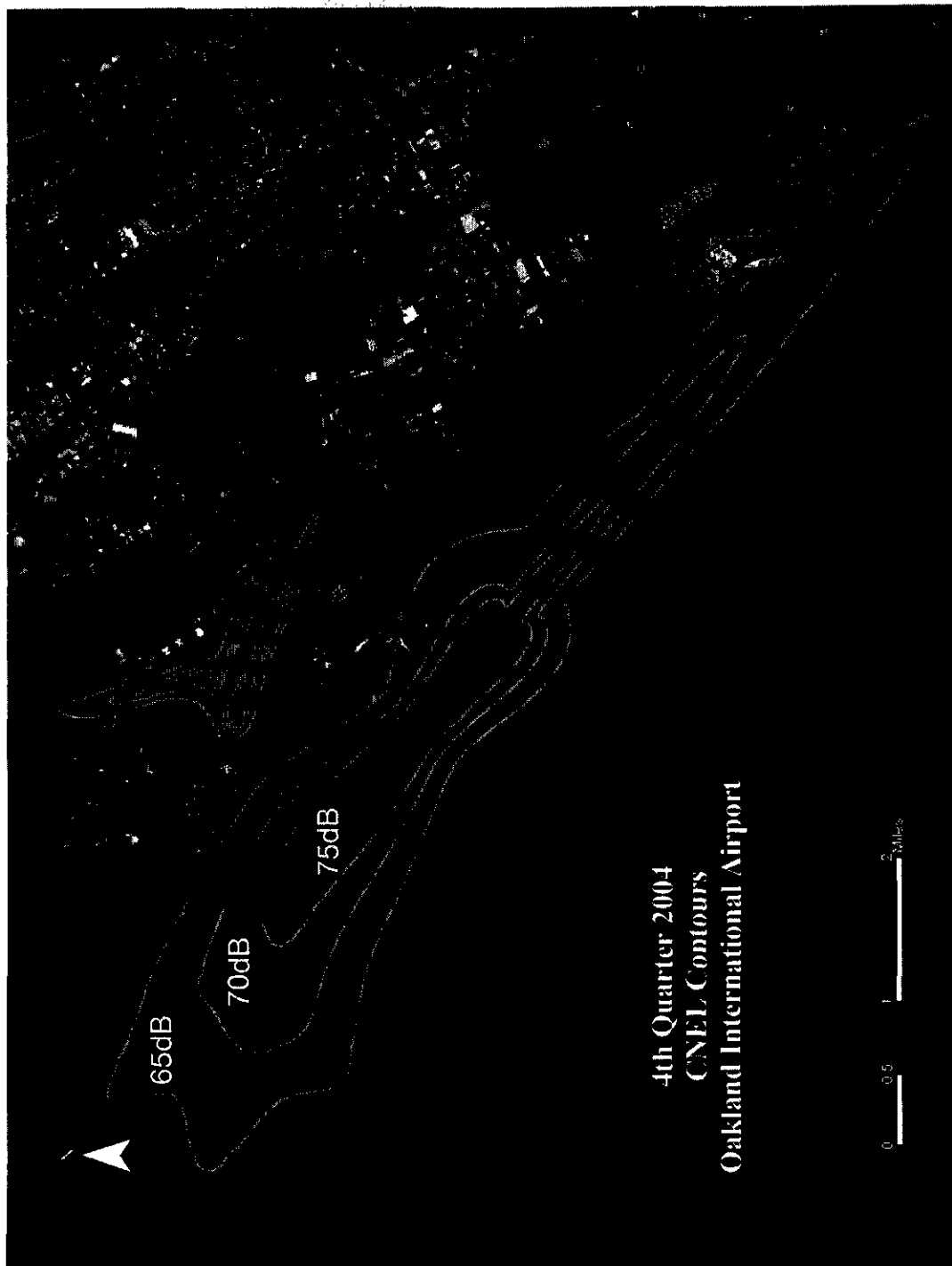


FIGURE 4

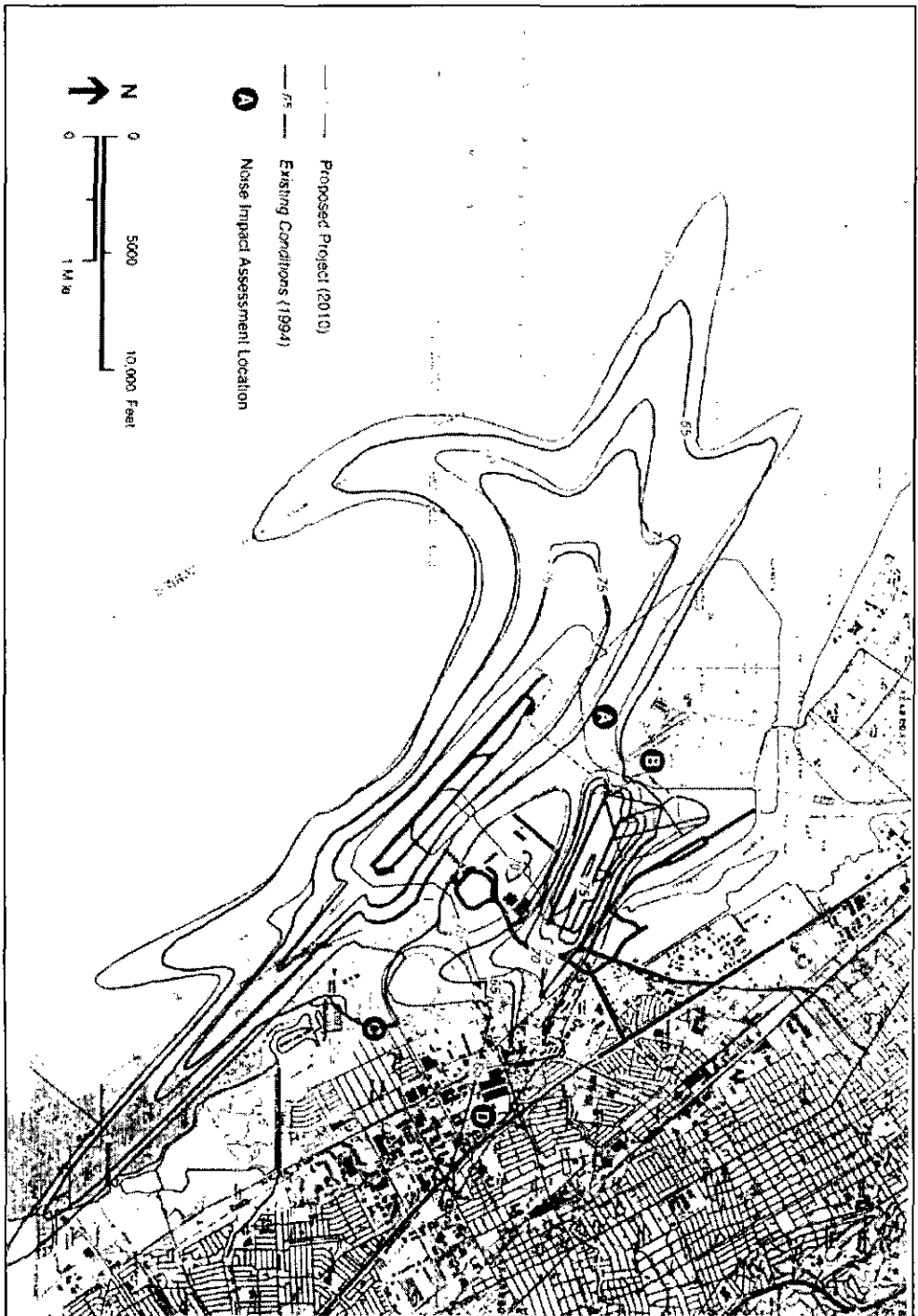
EXISTING (2004) CNEL NOISE CONTOURS FOR OAKLAND INTERNATIONAL AIRPORT OPERATIONS



Source: Metropolitan Oakland International Airport

FUTURE (2010) CNEL NOISE CONTOURS FOR OAKLAND INTERNATIONAL AIRPORT OPERATIONS

FIGURE 5



Source: Port of Oakland Environmental Impact Statement/Environmental Impact Report; US Army Corps of Engineers, September 10, 1996

5 | NOISE-LAND USE COMPATIBILITY

A key purpose of the noise contour maps in the noise element is to provide a basis for determining the acceptability of proposed land uses at their proposed sites. To help accomplish this, the California Department of Health Services developed receiver-based noise-compatibility guidelines, in the form of a matrix, for various land uses. The matrix illustrates the degree of acceptability of exposing specified land uses (including sensitive land uses) to a range of ambient-noise levels, as indicated on the noise contour maps. As part of the noise element update, the City of Oakland is adopting a version of the guidelines matrix (☞ FIGURE 6, at the end of this chapter). The matrix, in conjunction with the noise contour maps (☞ FIGURES 2-3, in Chapter 4) and when appropriate, site-specific noise assessments, should be used by the City when considering proposed development projects in order to gauge the acceptability of a proposed project (that is, its compatibility with noise levels at the proposed site).

The California *General Plan Guidelines* is of the opinion that the matrix criteria “require a rather broad interpretation.” For one thing, noise contours should be thought of as bands of similar noise exposure, rather than as absolute lines of demarcation, due to the limited accuracy of existing noise modeling technology; for another, noise contours should be considered worst-case estimates because noise measurements do not account for noise-mitigation measures. In addition, the evaluation of proposed land uses for noise compatibility should, in general, include many factors. These include the type of

noise source; the sensitivity of the noise receptor; the noise reduction likely to be provided by structures; the degree to which the noise source may interfere with speech, sleep or other activities characteristic of the land use; seasonal variations in noise source levels; existing outdoor ambient levels; general societal attitudes towards the noise source; prior history of the source; and tonal characteristics of the source. To the extent that any of these factors can be evaluated, the measured or computed noise exposure values may be adjusted in order to more accurately assess local sentiments towards acceptable noise exposure.

Conventional contemporary construction methods and materials decrease outdoor noise by 12-18 dB (with partially open windows). At the same time, according to common practice, the following are the maximum interior noise levels generally considered acceptable for various common land uses:

- 45 dB: residential, hotels, motels, transient lodging, institutional (churches, hospitals, classrooms, libraries), movie theaters
- 50 dB: professional offices, research and development, auditoria, meeting halls
- 55 dB: retail, banks, restaurants, sports clubs
- 65 dB: manufacturing, warehousing

Taking residential uses as an example, the above information implies that an ambient noise level of 60 dB is the threshold of a “normally acceptable” environment for residences (maximum interior noise level of 45 dB plus average noise mitigation of 15 dB). Higher ambient noise levels would require detailed noise analyses, sound-rated construction methods or materials, mechanical ventilation systems (so that windows may be kept closed), or noise shielding features such as sound walls, street setbacks and thoughtful site planning and building orientation. For example, considering that sound walls typically provide noise level reduction of 10 dB, residences could be built in areas exposed to noise levels of 70 dB if a suitable sound wall was provided.

Regarding the noise-land use compatibility guidelines, it is important to keep in mind two cautionary principles. First, the guidelines should not be used permissively to allow for the degradation of noise levels up to the maximum desired standards: for example, if the ambient noise level in an area currently zoned for residential uses is below 60 dB, an increase in noise up to that level should not necessarily be allowed. Second, even land uses proposed for “normally acceptable” noise environments should be evaluated in terms of any potential adverse noise impacts that such proposed projects would have on existing land uses nearby.

NOISE-LAND USE COMPATIBILITY MATRIX

FIGURE 6

LAND USE CATEGORY	COMMUNITY NOISE EXPOSURE (L_{DN} OR CNEL, dB)					
	55	60	65	70	75	80
Residential		██████████	██████████	██████████	██████████	██████████
Transient lodging—motels, hotels			██████████	██████████	██████████	██████████
Schools, libraries, churches, hospitals, nursing homes		██████████	██████████	██████████	██████████	██████████
Auditoriums, concert halls, amphitheaters	██████████	██████████	██████████	██████████	██████████	██████████
Sports arenas, outdoor spectator sports	██████████	██████████	██████████	██████████	██████████	██████████
Playgrounds, neighborhood parks			██████████	██████████	██████████	██████████
Golf courses, riding stables, water recreation, cemeteries				██████████	██████████	██████████
Office buildings, business commercial and professional			██████████	██████████	██████████	██████████
Industrial, manufacturing, utilities, agriculture				██████████	██████████	██████████

Adapted from State of California—General Plan Guidelines, 2003 (Appendix C); Governor’s Office of Planning and Research

INTERPRETATION

NORMALLY ACCEPTABLE: Development may occur without an analysis of potential noise impacts to the proposed development (though it might still be necessary to analyze noise impacts that the project might have on its surroundings).

CONDITIONALLY ACCEPTABLE: Development should be undertaken only after an analysis of noise-reduction requirements is conducted, and if necessary noise-mitigating features are included in the design. Conventional construction will usually suffice as long as it incorporates air conditioning or forced fresh-air-supply systems, though it will likely require that project occupants maintain their windows closed.

NORMALLY UNACCEPTABLE: Development should generally be discouraged; it may be undertaken only if a detailed analysis of the noise-reduction requirements is conducted, and if highly effective noise insulation, mitigation or abatement features are included in the design.

CLEARLY UNACCEPTABLE: Development should not be undertaken.

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6 | POLICY STATEMENTS

Overview At the heart of every general plan element is a set of goals, objectives, policies, recommendations, strategies, actions and other statements which are often collectively referred to as policy statements. The purpose of policy statements is to provide direction for a city or county, and guide the development-related actions and decisions of its officials. Policy statements attempt to reconcile the diverse interests of a community, and are normally based on background technical information and issue analyses developed as part of the general-plan process.

Oakland's noise element uses a hierarchical, three-layer framework to organize the policy statements. At the top of the hierarchy are goals, or broad, general ends which the city desires to achieve by implementing the noise element. The noise element formulates two goals for the City:

- To protect Oakland's quality of life and the physical and mental well-being of residents and others in the City by reducing the community's exposure to noise; and
- To safeguard Oakland's economic welfare by mitigating noise incompatibilities among commercial, industrial and residential land uses.

Goals form the basis for policies, the next level of the hierarchy. Policies, which are less general than goals, identify specific areas in which the city will direct efforts in order to attain its goals. Below the policies are actions, detailed and implementable steps that, if

feasible, the city will undertake in order to carry out the policies and, ultimately, the goals. There is at least one action supporting every policy, and each action lists the city agency or agencies expected to assume the leading role in implementing that action. (CEDA refers to the Community and Economic Development Agency, OPD to the Oakland Police Department, and PWA to the Public Works Agency.) It is important to note that the actions are underlain by two assumptions. First, the actions are meant to apply only to those geographic and programmatic areas over which the City of Oakland has legal authority. Second, the actions will only be implemented if they can be accomplished successfully given financial, environmental, legal, social and technological factors.

POLICY STATEMENTS

POLICY 1 Ensure the compatibility of existing and, especially, of proposed development projects not only with neighboring land uses but also with their surrounding noise environment.

- ACTION 1.1: Use the noise-land use compatibility matrix (Figure 6) in conjunction with the noise contour maps (especially for roadway traffic) to evaluate the acceptability of residential and other proposed land uses and also the need for any mitigation or abatement measures to achieve the desired degree of acceptability.

► CEDA PLANNING AND ZONING DIVISION

- ACTION 1.2: Continue using the City’s zoning regulations and permit processes to limit the hours of operation of noise-producing activities which create conflicts with residential uses and to attach noise-abatement requirements to such activities.

► CEDA PLANNING AND ZONING DIVISION

- ACTION 1.3: Continue working with the Alameda County Community Development Agency (in its role as the county’s airport land use commission) and with the Port of Oakland to ensure consistency with the county’s airport

land-use plan of the city’s various master-planning documents, zoning ordinance and land-use development proposals near Oakland’s airport.

▶ **CEDA PLANNING AND ZONING DIVISION**

POLICY 2 Protect the noise environment by controlling the generation of noise by both stationary and mobile noise sources.

- ACTION 2.1: Review the various noise prohibitions and restrictions under the City’s nuisance noise ordinance and revise the ordinance if necessary.

▶ **OPD BUREAU OF FIELD OPERATIONS**

- ACTION 2.2: As resources permit, increase enforcement of noise-related complaints and also of vehicle speed limits and of operational noise from cars, trucks and motorcycles.

▶ **OPD BUREAU OF FIELD OPERATIONS**

▶ **CEDA CODE ENFORCEMENT DIVISION**

- ACTION 2.3: Encourage the Port of Oakland to continue promoting its noise-abatement office and programs for Oakland International Airport.

▶ **CEDA PLANNING AND ZONING DIVISION**

POLICY 3 Reduce the community’s exposure to noise by minimizing the noise levels that are *received* by Oakland residents and others in the City. (This policy addresses the *reception* of noise whereas Policy 2 addresses the *generation* of noise.)

- ACTION 3.1: Continue to use the building-permit application process to enforce the California Noise Insulation Standards regulating the maximum allowable interior noise level in new multi-unit buildings.

▶ **CEDA BUILDING SERVICES DIVISION**

- ACTION 3.2: Review the City’s noise performance standards and revise them as appropriate to be consistent with City Council policy.

▶ **CEDA PLANNING AND ZONING DIVISION**

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- ACTION 3.3: Demand that Caltrans implement sound barriers, building retrofit programs and other measures to mitigate to the maximum extent feasible noise impacts on residential and other sensitive land uses from any new, widened or upgraded roadways; any new sound barrier must conform with City policies and standards regarding visual and aesthetic resources and quality.

► **PWA TRANSPORTATION SERVICES DIVISION**

7 | RESOURCES

Below is a list of noise-related resources online, including many that were used to prepare the noise element. It should be kept in mind that a large percentage of Internet addresses become invalid every year, as web pages cease to exist or are moved to other locations on the Internet. Nevertheless, it was felt that providing online resources would be useful because many web pages do remain valid for at least several years and also because the noise element will be consulted by the public most frequently in the few months after its publication.

Government agencies

- FAA Office of Environment and Energy, Noise Division: aee.faa.gov/noise
- Oakland Community and Economic Development Agency: oaklandceda.com
- Oakland Police Department: www.oaklandpolice.com

Government resources

- Government information sources on noise pollution:
www.libsci.sc.edu/bob/class/clis734/webguides/noise.html
- California law codes: leginfo.ca.gov/calaw.html
- California Code of Regulations: ccr.oal.ca.gov
- California *General Plan Guidelines*:
opr.ca.gov/planning/PDFs/General_Plan_Guidelines_2003.pdf
- California Environmental Quality Act: ceres.ca.gov/ceqa

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- Oakland Municipal Code: bpc.iserver.net/codes/oakland
- Oakland International Airport's Noise Management Program: flyoakland.com/noise/noise_management_pro.shtml

Noise-pollution control advocacy

- Noise Pollution Clearinghouse: nonoise.org
- Right to Quiet Society: quiet.org
- The League for the Hard of Hearing's Noise Center: lhh.org/noise
- Airport noise law: www.netvista.net/~hpb

APPENDIX A

NOISE-RELATED POLICY STATEMENTS FROM OTHER ELEMENTS OF THE OAKLAND GENERAL PLAN

FROM THE LAND USE AND TRANSPORTATION ELEMENT

Policy I/C4.2: Minimizing nuisances. The potential for new or existing industrial or commercial uses, including seaport and airport activities, to create nuisance impacts on surrounding residential land uses should be minimized through appropriate siting and efficient implementation and enforcement of environmental and development controls (p. 42).

Policy T1.5: Locating truck services. Truck services should be concentrated in areas adjacent to freeways and near the seaport and airport, while ensuring the attractiveness of the environment for visitors, local business, and nearby neighborhoods (p. 51).

Policy T1.6: Designating truck routes. An adequate system of roads connecting port terminals, warehouses, freeways and regional arterials, and other important truck destinations should be designated. This system should rely upon arterial streets away from residential neighborhoods (p. 51).

Policy T1.7: Routing freeway construction. New or expanded freeway construction should be routed through areas containing land uses which can tolerate any anticipated future noise impact, and/or incorporate special design features or traffic controls which will offset the impact.(p. 51).

Policy T1.8: Re-routing and enforcing truck routes. The City should make efforts to re-route traffic away from neighborhoods, wherever possible, and enforce truck route controls (p. 51).

NOISE ELEMENT

Policy T6.1: Posting maximum speeds. Collector streets shall be posted at the lowest possible speed (usually a maximum speed of 25 miles per hour), except where a lower speed is dictated by safety and allowable by law (p. 60).

Policy T6.4: Rebuilding freeways. In the event of a major disaster, necessitating reconstruction of the I-880 freeway, it should be rebuilt below ground in the downtown/Jack London Square area (p. 60).

Policy D12.3: Locating entertainment activities. Large scale entertainment uses should be encouraged to concentrate in the Jack London Waterfront and within the Broadway corridor area. However, existing large scale facilities in the Downtown should be utilized to the fullest extent possible (p. 73).

Policy D12.4: Locating smaller scale entertainment activities. Small scale entertainment uses, such as small clubs, should be allowed to locate in the Jack London Waterfront area and to be dispersed throughout downtown districts, provided that the City works with area residents and businesses to manage the impacts of such uses (p. 73).

Policy W1.3: Reducing land use conflicts. Land uses and impacts generated from Port or neighborhood activities should be buffered, protecting adjacent residential areas from the impacts of seaport, airport, or other industrial uses. Appropriate siting of industrial activities, buffering (c.g., landscaping, fencing, transitional uses, etc.), truck traffic management efforts, and other mitigations should be used to minimize the impact of incompatible uses (p. 78).

Policy W2.2: Buffering of heavy industrial uses. Appropriate buffering measures for heavy industrial uses and transportation uses on adjacent residential neighborhoods should be developed and implemented (p. 78).

Policy W6.2: Developing areas adjacent to the airport. Development of sites proximate to airport flight paths should be in conformance with Federal and State standards, as articulated in Federal Aviation Regulation, Part 77 and Part 150 ALUC planning guidelines, and any other applicable regulations and amendments (p. 88).

Policy W7.1: Developing lands in the vicinity of the seaport/airport. Outside the seaport and airport, land should be developed with a variety of uses that benefit from the close proximity to the seaport and airport and that enhance the unique characteristics of the seaport and airport. These lands should be developed with uses which can buffer adjacent neighborhoods from impacts related to such activities (p. 88).

Policy N1.4: Locating large-scale commercial activities. Commercial uses which serve long term retail needs or regional consumers and which primarily offer high volume goods should be located in areas visible or amenable to high volumes of traffic. Traffic generated by large scale commercial developments should be directed to arterial streets and freeways and not adversely affect nearby residential streets (p. 104).

Policy N1.6: Reviewing potential nuisance activities. The City should closely review any proposed new commercial activities that have the potential to create public nuisance or crime problems, and should monitor those that are existing. These may include isolated commercial or industrial establishments located within residential areas, alcoholic beverage sales activities (excluding restaurants), adult entertainment, or other entertainment activities (p. 104).

Policy N3.9: Orienting residential development. Residential developments should be encouraged to face the street and to orient their units to desirable sunlight and views, while avoiding unreasonably blocking sunlight and views for neighboring buildings, respecting the privacy needs of residents of the development and surrounding properties, providing for sufficient

conveniently located on-site open space, and avoiding undue noise exposure (p. 107).

Policy N5.2: Buffering residential areas. Residential areas should be buffered and reinforced from conflicting uses through the establishment of performance-based regulations, the removal of non-conforming uses, and other tools (p. 109).

Policy N11.4: Alleviating Public Nuisances. The City should strive to alleviate public nuisances and unsafe and illegal activities. Code Enforcement efforts should be given as high a priority as facilitating the development process. Public nuisance regulations should be designed to allow community members to use City codes to facilitate nuisance abatement in their neighborhood (p. 114).

FROM THE OPEN SPACE, CONSERVATION AND RECREATION ELEMENT

Policy OS-3.6: Open Space Buffers Along Freeways. Maintain existing open space buffers along Oakland’s freeways to absorb noise and emissions... (p. 2-29).

- **ACTION OS-3.6.1: LANDSCAPE SCREENING ALONG FREEWAYS.** Require retention of existing landscape screening as a condition of development approval for any property adjacent to Highway 13, Highway 580 (east of Grand), or Highway 24 (above Broadway). Encourage Caltrans to include landscape screening for any sound wall project in these areas (p. 2-30).
- **ACTION OS-3.6.3: FREEWAY BUFFERS.** Encourage Caltrans to plant and maintain additional landscaping along Oakland’s freeways, particularly those stretches of Interstate 880 adjacent to residential neighborhoods and other sensitive receptors (p. 2-30).

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APPENDIX B

TABLES FROM THE TECHNICAL REPORT

See pages that follow

NOISE ELEMENT

SUMMARY OF LONG-TERM NOISE MONITORING RESULTS

TABLE B-1

SITE	LOCATION (DISTANCE, IN FEET, FROM CENTERLINE OF ROAD)	DATE	DAYTIME NOISE LEVELS (dBA)	NIGHTTIME NOISE LEVELS	L _{DN}
LT-1	Hwy 24 (~144 ft), east of Broadway	8/17 to 8/19/04	74 to 80	67 to 78	80
LT-2	Skyline Pkwy (~20 ft), at 7293 Skyline Pkwy	8/17 to 8/19/04	55 to 68	32 to 58	61-63
LT-3	Hwy 13 (~90 ft), at Monterey and Maiden Ln	8/17 to 8/19/04	67 to 72	57 to 69	72
LT-4	Skyline Pkwy (~87 ft), at Mott Pl	8/17 to 8/19/04	52 to 61	42 to 55	57-58
LT-5	Fruitvale Av (~87 ft), at Davis St	8/17 to 8/19/04	63 to 67	54 to 63	67
LT-6	14 th Av (~75 ft), at East 22 nd St	8/17 to 8/19/04	64 to 68	55 to 64	68
LT-7	I-580 (~186 ft), at Wesley St	8/17/04	72 to 73	--	--
LT-8	San Leandro St (~30 ft), at the BART tracks	8/23 to 8/24/04	72 to 74	Down to 59	--
LT-9	55 th Av (~132 ft), at Bancroft Av	8/23 to 8/24/04	64 to 74	55 to 74	72
LT-10	International Blvd (~75 ft), at 81 st St	8/23 to 8/24/04	67 to 75	61 to 67	73
LT-11	98 th St (~81 ft), at E St	8/23 to 8/24/04	69 to 72	60 to 68	72
LT-12	Hegenberger Rd (~81 ft), at Leet	8/23 to 8/24/04	68 to 72	62 to 69	74

TABLE B-2

SUMMARY OF SHORT-TERM NOISE MONITORING RESULTS

SITE	LOCATION (DISTANCE, IN FEET, FROM CENTERLINE OF ROAD)	DATE AND TIME	L _{MAX}	L _{MIN}	L ₁	L ₁₀	L ₅₀	L ₉₀	L _{EQ}
ST-1	MLK Blvd (~84 ft)	8/18/2004; 10:30 am	96	55	83	73	68	60	74
ST-2	Alcatraz St (~36 ft), at 620-626 Alcatraz	8/18/2004; 11:10 am	84	48	75	71	65	53	68
ST-3	Intersection of Grandview and Gravatt	8/18/2004; 11:40 am	66	39	65	55	44	41	53
ST-4	Moraga (~54 ft), at Harbord Dr	8/18/2004; 12:15 am	74	45	72	70	63	55	65
ST-5	Pleasant Valley Av (~63 ft), at Home St	8/18/2004; 12:40 am	78	54	76	72	66	60	68
ST-6	Shepard Canyon Rd (~63 ft), at Paso Robles	8/18/2004; 2:00 am	77	41	70	63	52	44	59
ST-7	Park (~63 ft), at Everett	8/23/2004; 2:00 am	78	46	76	71	64	53	67
ST-8	Lincoln (~42 ft), at Burlington	8/23/2004; 2:20 am	83	42	77	67	56	46	65
ST-9	35 th Av (~69 ft), at Harbor View	8/23/2004; 2:50 am	88	50	80	71	63	55	69
ST-10	Redwood Rd (~66 ft), at Via Rialto	8/24/2004; 12:00 am	76	48	74	70	61	52	65
ST-11	Golf Links Rd (~71 ft), at Dunkirk Av	8/24/2004; 12:40 am	73	39	68	63	52	44	58

During short-term measurements, vehicular traffic on the street network was the dominant noise source; however, there were contributions from overflight aircraft at ST-4, ST-5, ST-6, ST-8 and ST-11. Aircraft at ST-5 and ST-8 generated maximum levels of 70 dBA.

NOISE ELEMENT

SUMMARY OF PREVIOUSLY CONDUCTED NOISE MEASUREMENTS

TABLE B-3

LOCATION	DURATION	NOISE LEVEL (DBA)	DISTANCE (FEET)	MAJOR NOISE SOURCE	SOURCE OF INFORMATION
Oak & 4th Street	24 Hour	71 Ldn	Fence line	Traffic on Oak Street	ESA, 1999
Telegraph Ave & 32nd St	24 Hour	71 CNEL	50	Traffic on Telegraph Ave	ESA, 2000
NE corner of MacArthur BART	24 Hour	72 CNEL	*	Traffic on I-580, BART	ESA, 2000
MLK Jr Way btwn Apgar & 39th St	*	65 Leq	60	I-580, BART, MLK Jr Way traffic	ESA, 2000
62nd St btwn San Pablo & Marshall	*	60 Leq	25	Traffic on 62nd and San Pablo	ESA, 2000
San Pablo & 16th	30 Min	63 CNEL	30	Traffic on San Pablo Ave	Lamphier & Associates, 2000
16th & Clay	30 Min	62 CNEL	30	Traffic on 16th Street	Lamphier & Associates, 2000
16th Street btwn Jefferson and Clay	30 Min	61 CNEL	30	Traffic on 16th Street	Lamphier & Associates, 2000
17th Street btwn MLK and Jefferson	30 Min	66 CNEL	30	Traffic on 17th Street	Lamphier & Associates, 2000
9th St	24 Hour	65 CNEL	*	Traffic on 9th St	Charles Salter & Associates, 2000
8th St	24 Hour	66 CNEL	*	Traffic on 8th St	Charles Salter & Associates, 2000
Jefferson St.	24 Hour	71 CNEL	*	Traffic on Jefferson St.	Charles Salter & Associates, 2000
Clay St.	24 Hour	71 CNEL	*	Traffic on Clay St.	Charles Salter & Associates, 2000
Vernon Street north of Bay Place	24 Hour	58 Ldn	60	Traffic on Vernon Street	ESA, 2000
Bay Place	15 Min	64 peak	30	Traffic on Bay Place	ESA, 2000
Harrison Street	15 Min	66 peak	55	Traffic on Harrison Street	ESA, 2000
3rd/Broadway, NW Corner	15 Min	70 peak am	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
3rd/Broadway, NW Corner	15 Min	67 Peak pm	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
3rd/Broadway, SW Corner	15 Min	66 peak am	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
3rd/Broadway, SW Corner	15 Min	68 peak pm	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
3rd/Broadway, SW Corner	15 Min	69 peak am	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
3rd/Franklin NW Corner	15 Min	66 peak pm	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
2nd/Broadway, SW Corner	15 Min	69 peak am	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
2nd/Broadway, SW Corner	15 Min	69 peak pm	Sidewalk	I-880, railroad, local traffic	Jones & Stokes, 2001
Pine Street & Gross Street	24 Hour	68 CNEL	*	I-880, local traffic, BART, aircraft	G. Borchard & Associates, 2001
1109 Wood Street btwn 11th & 12th	24 Hour	64 CNEL	*	Local traffic, aircraft, I-880	G. Borchard & Associates, 2001

LOCATION	DURATION	NOISE LEVEL (dBA)	DISTANCE (FEET)	MAJOR NOISE SOURCE	SOURCE OF INFORMATION
So. side of 3rd St near Tower Lofts	24 Hour	68 Ldn	*	I-880, local traffic	Charles Salter & Associates, 2001
I-880 Freeway (South of Oak Street)	24 Hour	75 CNEL	500	Traffic on I-880	Lamphier-Gregory, 2002
Foothill Boulevard (At 68th Ave)	24 Hour	69 CNEL	50	Traffic on Foothill Blvd	Lamphier-Gregory, 2002
MacArthur Blvd (South of 90th Ave)	24 Hour	70 CNEL	50	Traffic on MacArthur Blvd	Lamphier-Gregory, 2000
San Pablo Avenue (at 32nd Street)	15 Min	69 CNEL	50	Traffic on San Pablo Ave	Lamphier-Gregory, 2003
West Grand Avenue (at Chestnut St)	15 Min	71 CNEL	50	Traffic on West Grand Ave	Lamphier-Gregory, 2003
Mandela Parkway (at 17th Street)	15 Min	64 CNEL	50	Traffic on Mandela Parkway	Lamphier-Gregory, 2003
16th Street (West of Wood Street)	24 Hour	66 CNEL	*	Traffic on 16th Street	Lamphier-Gregory, 2003
Peralta Street (at 8th Street)	15 Min	69 CNEL	50	Traffic on Peralta Street	Lamphier-Gregory, 2003
7th Street (at Mandela Parkway)	15 Min	72 CNEL	50	Traffic on 7 th Street	Lamphier-Gregory, 2003
Alice St, entrance to 'The Landing'	24 Hour	66-67 Ldn	40	Amtrak activity and local traffic	ESA, 2003
Embarcadero near Alice St	24 Hour	72-73 Ldn	150 (Amtrak)	Amtrak activity and local traffic	ESA, 2003

NOISE ELEMENT

CALCULATED TRAFFIC NOISE LEVELS FOR MAJOR LOCAL ROADWAYS

TABLE B-4

STREET NAME	FROM	TO	EXISTING LDN (AT 75 FT)	DISTANCE (FT) TO NOISE CONTOUR FROM ROADWAY CENTER			FUTURE LDN (AT 75 FT)	DISTANCE (FT) TO NOISE CONTOUR FROM ROADWAY CENTER		
				70 LDN	65 LDN	60 LDN		70 LDN	65 LDN	60 LDN
14 th / Beaumont	8 th St	21 st St	65	*	80	170	66	*	90	190
14 th / Beaumont	East 24 th St	East 27 th St	67	50	100	210	67	50	100	220
23 rd Ave	East 7 th St	12 th St	68	60	120	260	69	60	140	300
23 rd Ave	29 th Ave	East 7 th St	68	60	120	260	69	60	140	300
35 th Ave	Foothill Blvd	East 14 th St	60	*	*	70	61	*	*	90
35 th Ave	MacArthur Blvd	Foothill Blvd	66	*	80	180	66	*	90	190
42 nd Ave	Foothill Blvd (S)	14 th St	67	50	110	240	66	*	90	190
51 st St	Shattuck Ave	Telegraph Ave	61	*	*	80	61	*	*	90
51 st St	Telegraph Ave	Broadway	67	50	100	210	67	50	100	220
66 th Ave	Oakport St	San Leandro St	66	*	80	180	66	*	90	190
73 rd Ave	Bancroft Ave	MacArthur Blvd	69	60	130	280	70	70	160	350
73 rd Ave	International Blvd	MacArthur Blvd	71	90	190	410	72	100	220	470
73 rd Ave	Arthur St	Bancroft Ave	71	80	180	380	72	100	220	470
7 th St	Fallon St	Fifth Ave	63	*	50	120	65	*	70	160
7 th St	Wood St	Market St	66	*	90	190	67	50	100	220
98 th Ave	Bancroft Ave	Golf Links Rd	66	*	90	180	65	*	70	160
98 th Ave	San Leandro St	Bancroft Ave	65	*	80	160	66	*	90	190
98 th Ave	I-880 (E)	San Leandro St	67	50	110	230	68	60	120	260
Alcatraz Ave	Telegraph Ave	Berkeley city limit	64	*	60	140	68	60	120	260
Alcatraz Ave	Berkeley city limit	Shattuck Ave	60	*	*	80	61	*	*	90
Bancroft Ave	Seminary Ave	Havenscourt Blvd	60	*	*	80	62	*	50	100
Bancroft Ave	Havenscourt Blvd	73 rd Ave	66	*	90	200	67	50	100	220
Bancroft Ave	98 th Ave	SL city limit	66	*	90	190	66	*	90	190
Bancroft Ave	73 rd Ave	98 th Ave	66	*	90	200	67	50	100	220
Broadway	Keith Ave	Rte 13 EB on-ramp	69	60	140	300	71	90	190	410
Broadway	MacArthur Blvd	Pleasant Valley Ave	66	*	90	200	67	50	100	220
Broadway	27 th St	MacArthur Blvd (W)	67	50	100	220	66	*	90	190

Broadway	Pleasant Valley Ave	Keith Ave	68	60	120	260	69	60	140	300
Brush St	5 th St	11 TH St	67	50	100	230	69	60	140	300
Claremont Ave	College Ave	Berkeley city limit	65	*	80	160	66	*	90	190
Claremont Ave	Berkeley city limit	CCC LIMIT	67	50	100	230	66	*	90	190
Claremont Ave	Telegraph Ave	College Ave	66	*	90	190	65	*	70	160
Coliseum Way	46 th Ave	66 TH Ave (E)	66	*	90	190	61	*	*	90
Edes Ave	I-880 off-ramps	85 TH Ave	66	*	90	180	63	*	60	120
Foothill Blvd	Lakeshore	5 th Ave	58	*	*	60	59	*	*	60
Foothill Blvd	8 th Ave	14 TH Ave	63	*	50	110	61	*	*	90
Foothill Blvd	14 th Ave	19 TH Ave	59	*	*	60	60	*	*	70
Foothill Blvd	23 RD Ave	Fruitvale Ave	61	*	*	80	60	*	*	70
Foothill Blvd	35 th Ave	38 th Ave	62	*	50	110	63	*	60	120
Foothill Blvd	38 th Ave	42 nd Ave (S)	63	*	50	110	61	*	*	90
Foothill Blvd	High St	Vicksburg Ave	61	*	*	90	62	*	50	100
Foothill Blvd	Vicksburg Ave	55 th Ave	59	*	*	60	59	*	*	60
Foothill Blvd	55 th Ave	Seminary Ave	60	*	*	80	59	*	*	60
Fruitvale Ave	Harold St	International Blvd	62	*	*	100	63	*	60	120
Fruitvale Ave	International Blvd	Alameda city limit	63	*	50	120	63	*	60	120
Golf Links Rd	Fontaine St	98 th Ave	63	*	60	130	64	*	60	140
Grand Ave	MacArthur Blvd	Piedmont city limit	66	*	90	190	65	*	70	160
Grand Ave	Harrison St	MacArthur Blvd	69	60	130	280	69	60	140	300
Harrison St	Hamilton Pl	Santa Clara Ave	66	*	90	200	67	50	100	220
Harrison St	27 th St	Hamilton Pl	66	*	90	200	67	50	100	220
Harrison St	Grand Ave	27 th St	66	*	90	200	67	50	100	220
Havenscourt Blvd	International Blvd	Bancroft Ave	62	*	50	100	63	*	60	120
Hegenberger Rd	Edes Ave	San Leandro St	75	160	340	730	76	190	410	870
Hegenberger Rd	San Leandro St	14 th St	74	140	290	640	75	160	350	750
Hegenberger Rd	Doolittle Dr	Pardee Dr	70	80	160	350	71	90	190	410
High St	Brookdale Ave	Redding St	64	*	70	140	66	*	90	190
High St	Alameda city limit	Oakport St	70	70	160	330	69	60	140	300
High St	Coliseum Way	San Leandro St	65	*	80	160	66	*	90	190
High St	Foothill Blvd	Brookdale Ave	64	*	60	140	64	*	60	140

NOISE ELEMENT

International Blvd	1 st Ave Pl	14 th Ave	64	*	70	140	64	*	60	140
International Blvd	14 th Ave	Fruitvale	66	*	90	180	63	*	60	120
International Blvd	Fruitvale Ave	42 nd Ave	64	*	70	150	64	*	60	140
Lakeshore Ave	18 th St East	12 th St East	65	*	70	150	66	*	90	190
Lakeside Dr	Madison St	Harrison St	63	*	50	120	64	*	60	140
MacArthur Blvd	Fruitvale Ave	High St	66	*	80	180	66	*	90	190
MacArthur Blvd	High St	Buell St	66	*	90	190	66	*	90	190
MacArthur Blvd	Buell St	Seminary Ave (E)	68	50	110	240	68	60	120	260
Market St	55 th St	Stanford Ave	66	*	90	180	65	*	70	160
MLK Way	27 th St	MacArthur Blvd	63	*	60	120	64	*	60	140
MLK Way	47 th St	END1	63	*	60	120	64	*	60	140
Miles Ave	College Ave	Rte 24 SB off-ramp	61	*	*	90	63	*	60	120
Moraga Ave	Piedmont city limit	Estates Dr	63	*	60	120	64	*	60	140
Moraga Ave	Estates Dr	Thornhill Dr	62	*	50	100	64	*	60	140
Moraga Ave	Thornhill Dr	Mountain Blvd	63	*	60	120	64	*	60	140
Mountain Blvd	Edwards Ave (S)	Keller Ave	74	140	300	660	74	140	300	640
Mountain Blvd	Holy Names College	Redwood Rd (S)	65	*	70	160	64	*	60	140
Mountain Blvd	Redwood Rd (S)	Carson St	62	*	50	100	62	*	50	100
Mountain Blvd	Moraga Ave	Park Blvd (N)	65	*	80	170	66	*	90	190
Park Blvd	Grosvenor Pl	Wellington St	69	60	130	280	69	60	140	300
Park Blvd	Leimert Blvd	Trafalgar Pl	64	*	60	130	64	*	60	140
Park Blvd	Spruce St	MacArthur Blvd	65	*	70	160	66	*	90	190
Park Blvd	Wellington St	Leimert Blvd	65	*	70	150	64	*	60	140
Redwood Rd	Aliso Ave	Skyline Blvd West	66	*	90	200	66	*	90	190
Redwood Rd	Aliso Ave	END3	66	*	80	180	66	*	90	190
San Leandro St	66 th Ave	75 th Ave	67	50	100	230	68	60	120	260
San Leandro St	75 th Ave	SL city limit	68	50	120	250	69	60	140	300
San Leandro St	High St	66 th Ave	65	*	70	160	67	50	100	220
San Leandro St	Fruitvale Ave	High St	66	*	90	200	66	*	90	190
Seminary Ave	Bancroft Ave	International Blvd	59	*	*	70	59	*	*	60
Seminary Ave	San Leandro St	International Blvd	60	*	*	70	58	*	*	60
Shattuck Ave	52 nd St	55 th St	61	*	*	90	62	*	50	100

Shattuck Ave	55 th St	Alcatraz Ave	63	*	60	130	64	*	60	140
Stanford Ave	San Pablo Ave	Adeline St	65	*	70	150	67	50	100	220
Telegraph Ave	West Grand Ave	27 th St	62	*	50	100	60	*	*	70
Telegraph Ave	27 th St	W MacArthur Blvd	62	*	50	100	62	*	50	100
Telegraph Ave	40 th St	50 th St	62	*	50	100	63	*	60	120
Telegraph Ave	51 st St	Aileen St	63	*	50	120	63	*	60	120
Telegraph Ave	Aileen St	Alcatraz Ave	68	60	120	260	68	60	120	260
Telegraph Ave	Alcatraz Ave	Berkeley city limit	68	60	120	260	68	60	120	260
W MacArthur Blvd	Market St	Telegraph Ave	66	*	90	200	67	50	100	220
W MacArthur Blvd	Telegraph Ave	Broadway	67	50	110	230	68	60	120	260
W MacArthur Blvd	Broadway	Fairmount Ave	68	50	110	240	68	60	120	260

*Distances of less than 50 feet are not included on this table

NOISE ELEMENT

CALCULATED TRAFFIC NOISE LEVELS FOR HIGHWAYS AND FREEWAYS

TABLE B-5

HIGHWAY	VICINITY	EXISTING LDN (150 FT)	DISTANCE (FT) TO NOISE CONTOUR FROM ROAD CENTER		
			70 LDN	65 LDN	60 LDN
SR 13	Oakland, Carson St	71	170	380	810
SR 13	Oakland, Redwood Rd	71	170	380	810
SR 13	Oakland, Lincoln Av	72	200	440	950
SR 13	Oakland, Park Blvd	73	240	510	1100
SR 13	Oakland, Moraga Av	72	200	440	950
SR 13	Oakland, Broadway Terr	73	240	510	1100
SR 13	Oakland, Jct SR 24	73	240	510	1100
SR 24	Oakland, Telegraph Av / Claremont Av	79	600	1290	2770
SR 24	Oakland, Broadway / Patton St	79	600	1290	2770
SR 24	Oakland, Jct SR 13 at Landvale Rd	80	700	1500	3230
SR 24	Oakland, Caldecott Lane	79	600	1290	2770
SR 24	Caldecott Tunnel	80	700	1500	3230
I-580	Oakland, Foothill Blvd	78	550	1180	2540
I-580	Oakland, 106 th Av	78	540	1170	2510
I-580	Oakland, Golf Links Rd	79	570	1220	2630
I-580	Oakland, Keller Av	79	570	1230	2640
I-580	Oakland, Edwards Av	79	570	1230	2660
I-580	Oakland, Kuhnle Av	79	610	1320	2840
I-580	Oakland, Jct SR 13 North	79	600	1290	2770
I-580	Oakland, MacArthur Blvd	78	530	1130	2440
I-580	Oakland, High St	78	510	1100	2360
I-580	Oakland, 35 th Av	78	550	1190	2560
I-580	Oakland, Coolidge Av	79	600	1290	2780
I-580	Oakland, Fruitvale Av	78	550	1190	2560
I-580	Oakland, Beaumont Av	79	610	1320	2840

HIGHWAY	VICINITY	EXISTING LDN (150 FT)	DISTANCE (FT) TO NOISE CONTOUR FROM ROAD CENTER		
			70 LDN	65 LDN	60 LDN
I-580	Oakland, Park Blvd	79	560	1200	2580
I-580	Oakland, Lakeshore Av / Park Blvd	79	620	1350	2900
I-580	Oakland, Van Buren Av / Grand Av	79	570	1230	2640
I-580	Oakland, Oakland Av / Harrison St	79	620	1340	2890
I-580	Oakland, Jct I-80 and I-880	79	610	1300	2810
I-880	Oakland, 98 th Av	83	1070	2310	4980
I-880	Oakland, Hegenberger Rd	83	1030	2220	4790
I-880	Oakland, 66 th Av	83	1090	2350	5060
I-880	Oakland, Jct SR 77, High St / 42 nd Av	81	810	1750	3770
I-880	Oakland, 29 th / Fruitvale Av	83	1120	2410	5180
I-880	Oakland, 23 rd Av	83	1110	2400	5160
I-880	Oakland, Embarcadero	83	1180	2550	5490
I-880	Oakland, 5 th Av	83	1180	2550	5490
I-880	Oakland, Oak St / Madison St	83	1170	2520	5430
I-880	Oakland, Jackson St / Broadway	83	1090	2360	5080
I-880	Oakland, Jct I-980; Market St	83	1100	2370	5100
I-880	Adeline St / Union St	80	700	1520	3270
I-880	7 th St	80	730	1560	3370
I-880	West Jct. I-80	80	670	1440	3110
I-980	Oakland, 14 th St	80	700	1500	3230
I-980	Oakland, 18 TH St	81	810	1750	3770
I-980	Oakland, Jct. I-580	82	950	2040	4390

NOISE ELEMENT

NOISE CONTOUR DISTANCES FOR RAILROAD LINES
TABLE B-6

RAILROADS	DISTANCE (FT) TO NOISE CONTOUR FROM TRACK			
	75 LDN	70 LDN	65 LDN	60 LDN
UPRR (whistle)	80	180	390	840
BART + UPRR	130	280	600	1290

UPDATE OF THE NOISE ELEMENT OF THE OAKLAND GENERAL PLAN



Initial Study / Negative Declaration

Document submitted for public review on:
March 30, 2005

**Comments may be submitted no later than
Wednesday, April 20, 2005, to:**

City of Oakland
Community and Economic Development Agency
Planning and Zoning Division
Attn: Niko Letunic
250 Frank H. Ogawa Plaza, Suite 3315
Oakland, CA 94612

E-mail: nletunic@oaklandnet.com
Phone: (510) 238-6657

INITIAL STUDY AND ENVIRONMENTAL REVIEW CHECKLIST

California Environmental Quality Act (CEQA)

1. Project title

Update of the noise element of the Oakland general plan.

2. Lead agency name and address

City of Oakland
Community and Economic Development Agency, Planning and Zoning Division
250 Frank H. Ogawa Plaza, Suite 3315
Oakland, CA 94612

3. Contact person, phone number and e-mail address

Niko Letunic; (510) 238-6657; nletunic@oaklandnet.com

4. Project location

Oakland, California. The city of Oakland is located at the eastern shore of San Francisco Bay. The city encompasses 56 square miles of land and 24 square miles of water and is defined by the bay and Oakland Estuary on the southwest, the crest of the Berkley-Oakland Hills on the northeast, and other urban areas on the north and south. Oakland is approximately 15 miles east of San Francisco and 90 miles southwest of Sacramento. [Source: *City of Oakland General Plan Land Use and Transportation Element (LUTE) Environmental Impact Report, 1998.*]

5. Project sponsor's name and address

City of Oakland
Community and Economic Development Agency, Planning and Zoning Division
250 Frank H. Ogawa Plaza Suite 3315
Oakland, CA 94612

6. General Plan designation

Citywide

7. Zoning

Citywide

8. Description of project

California state law requires that each city and county adopt a general plan to guide its physical growth and development. General plans must address locally relevant planning issues under seven mandatory categories, or elements, including a noise element. The noise element must analyze and quantify, to the extent practicable, current and projected noise levels from the following noise sources: major traffic thoroughfares, passenger and freight railroad operations, commercial and general aviation operations, industrial plants, and other ground stationary noise sources contributing to the community noise environment. Noise levels for these sources must be shown on noise contour maps prepared on the basis of noise monitoring or modeling techniques, and the resulting noise contours must be used to guide land use decisions to reduce noise impacts [Section 65302(f) of the California Government Code].

The proposed noise element would update Oakland's original noise element, adopted in 1974. The updated element contains seven chapters: (1) an introduction or general overview; (2) a primer on sound and noise; (3) a description of the institutional framework (including laws, regulations and programs) addressing noise control; (4) a description of the current and project local noise environment; (5) a discussion of noise/land use compatibility and a basis for determining the acceptability of proposed land uses with regard to noise; (6) a set of policies and actions that seek to mitigate noise problems and provide direction for the City's development-related decisions with regard to noise; and (7) a list of noise-related resources.

9. Surrounding land uses and setting

The project applies to the entire City of Oakland. The project is an amendment of the general plan, and as such will be applied citywide, including the City of Oakland planning area (Figure II-2, "Planning Area Boundaries," *General Plan LUTE EIR*, page II-4).

10. Other public agencies whose approval is required

None; however, the City will submit the initial study and draft negative declaration for the noise element, and the draft noise element itself to other potentially interested government agencies at the local, regional, state and federal levels for their review and comment.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially significant impact" as indicated by the checklist on the following pages.

- | | | |
|--|---|---|
| <input type="checkbox"/> 1. Aesthetics | <input type="checkbox"/> 7. Hazards/hazardous materials | <input type="checkbox"/> 13. Public services |
| <input type="checkbox"/> 2. Agricultural resources | <input type="checkbox"/> 8. Hydrology/water quality | <input type="checkbox"/> 14. Recreation |
| <input type="checkbox"/> 3. Air quality | <input type="checkbox"/> 9. Land use/planning | <input type="checkbox"/> 15. Transportation/traffic |
| <input type="checkbox"/> 4. Biological resources | <input type="checkbox"/> 10. Mineral resources | <input type="checkbox"/> 16. Utilities/service systems |
| <input type="checkbox"/> 5. Cultural resources | <input type="checkbox"/> 11. Noise | |
| <input type="checkbox"/> 6. Geology/soils | <input type="checkbox"/> 12. Population/housing | <input type="checkbox"/> 17. Mandatory findings of significance |

DETERMINATION

On the basis of this initial evaluation:

I find that the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because mitigation measures have been added to the project. A **MITIGATED NEGATIVE DECLARATION** will be prepared.

I find that the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.

I find that the proposed project **MAY** have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or **NEGATIVE DECLARATION** pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or **NEGATIVE DECLARATION**, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

Date

Claudia Cappio,
Director of Development

ENVIRONMENTAL SETTING

The City of Oakland, California, is located on the eastern shore of San Francisco Bay, in northwestern Alameda County. It covers an area of approximately 53 square miles, with an average elevation of 42 feet. The city is bounded by the cities of Emeryville and Berkeley to the north/northwest, unincorporated Contra Costa and Alameda counties to the east/northeast, the city of San Leandro to the south, the Oakland Estuary to the south/southwest, and San Francisco Bay to the west; the island city of Alameda is located across the estuary, while the city of Piedmont is an enclave within Oakland, near Lake Merritt. With a population of approximately 410,000 people, Oakland is the eighth most-populous city in the state; it is also the largest city in Alameda County, in terms of both area and population, and is also the county seat.

The city's major natural features are San Francisco Bay, the Oakland Estuary, Lake Merritt, and the hills along the city's northeastern boundary. Downtown is a few blocks inland from the estuary and immediately west of Lake Merritt; most residential districts are to the north, east and southeast of downtown; and industrial areas are to the west and southeast, along I-880. Notable large-scale land uses include the chain of open spaces in the hills, Oakland International Airport, and the seaport (one of the country's largest and busiest). The airport and seaport, combined with several interstate highways and passenger and freight rail lines that pass through the city, make Oakland the transportation hub of Northern California.

The following evaluation provides information regarding environmental impacts from implementation of the policies and actions in the noise element. Implementation of the element is not anticipated to have negative environmental impacts because it does not propose any construction or development projects or other projects, programs, policies or actions that could reasonably be expected to have an adverse impact on the environment. On the contrary, the policies and actions in the noise element are designed to, among other things, reduce the community's exposure to excess noise.

EVALUATION OF ENVIRONMENTAL IMPACTS

CEQA requires that an explanation of all answers be provided along with this checklist, including a discussion of ways to mitigate any significant effects identified. As defined here, a significant effect is considered a substantial adverse effect.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
1. AESTHETICS. Would the project...				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 1 (a), (b), (c) and (d):

Implementation of the noise element is not anticipated to have a negative impact on aesthetics as it does not propose any projects, programs or actions that could reasonably be expected to adversely affect scenic vistas, damage scenic resources, degrade the visual character of any sites or create substantial light or glare. Action 3.4

of the noise element would demand that Caltrans implement sound barriers in certain cases, but the action would merely be a continuation of existing city policy, and it specifies that any new sound barrier must conform with City policies and standards regarding visual and aesthetic resources and quality. Also, impacts that could result from any new sound barrier would be evaluated in subsequent project-specific environmental reviews under CEQA.

The “Open Space for Community Character” section of the *Open Space, Conservation and Recreation (OSCAR) Element* (Chapter 2, pages 2-64 to 2-67)—with which implementation of the noise element must be consistent—applies specific standards for the protection of visual quality and scenic views in Oakland and proposes appropriate policies and programs to protect visual resources and scenic corridors (policies OS-10.1 to OS-10.4) in order to prevent significant aesthetic impacts. Additionally, the “Visual and Aesthetic Conditions” section of the *LUTE EIR* (pages III.F-1 to III.F-12) addresses the potential impacts to aesthetic resources, and no additional impacts related to aesthetics are anticipated as a result of the noise element which have not already been analyzed and evaluated as part of the *LUTE EIR*.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
2. AGRICULTURAL RESOURCES. Would the project...				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of farmland to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 2 (a), (b) and (c):

As discussed in the *OSCAR Element* and *LUTE Element*, Oakland’s planning area contains no agricultural resources or lands currently zoned for agricultural uses; instead, Oakland is an urbanized area with a mixture of commercial, residential and industrial uses. There are no anticipated impacts from the noise element to agricultural resources largely because there is no “prime farmland,” “unique farmland” or “farmland of statewide importance” that could be converted to non-agricultural use; no existing zoning for agricultural use or Williamson Act contracts; and no farmland that could be converted to non-agricultural use.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
3. AIR QUALITY. Would the project...				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- d) Expose sensitive receptors to substantial pollutant concentrations?
- e) Create objectionable odors affecting a substantial number of people?

Comments to Sections 3(a), (b), (c), (d), and (e):

Since the noise element does not propose any construction or development projects, implementation of the element is anticipated to have no negative impacts on air quality. Policies under the “Air Resources” section of the *OSCAR Element* (policies CO-12.1 to CO-12.6; Chapter 3, pages 3-52 to 3-58)—with which implementation of the noise element must be consistent—are meant to reduce emissions of criteria air pollutants and dust by proposing to promote land-use patterns and densities that are less dependent on automobile travel; maintain bus, rail and ferry systems to reduce automobile emissions; expand existing transportation-systems-management strategies; require construction, demolition, and grading practices that minimize dust emissions; and require that development projects be designed in a manner that reduces potential adverse air quality impacts. Additionally, potential impacts to air quality were analyzed as part of the *LUTE EIR* (pages III.E-1 to III.E-35), and no additional impacts related to air quality are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *LUTE EIR*.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
4. BIOLOGICAL RESOURCES. Would the project...				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 4(a), (b), (c), (d), (e) and (f):

Since the noise element does not propose any construction or development projects, implementation of the element is not anticipated to have negative impacts on biological resources. The “Wildlife” section of the *OSCAR Element* (Chapter 3, pages 3-49 to 3-50)—with which implementation of the noise element must be consistent—provides for orderly growth in Oakland’s planning area, and includes provisions and policies for

the conservation of natural resources, including the protection and enhancement of sensitive biological resources.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
5. CULTURAL RESOURCES. Would the project...				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 5 (a), (b), (c) and (d):

Implementation of the noise element is not anticipated to have a negative impact on cultural resources. The element does not propose any projects, programs or actions that could reasonably be expected to cause a substantial adverse change in the significance of a historical or archaeological resource; destroy a unique paleontological or geologic resource; or disturb any human remains. Potential impacts to cultural resources were analyzed as part of the *LUTE EIR* (pages III.G-1 to III.G-17), and the *LUTE* and *Historic Preservation Element* propose policies and programs to protect and preserve Oakland's cultural resources (Historic Preservation Policies 3.1 and 3.9(a) and *LUTE* Policies D1.1, D2.1 and N11.4), and no additional impacts related to cultural resources are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR*.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
6. GEOLOGY AND SOILS. Would the project...				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map for the area or based on other substantial evidence of a known fault?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| d) Be located on expansive soil creating substantial risks to life or property? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments to Sections 6(a), (b), (c), (d) and (e):

Since the noise element does not propose any construction or development projects, implementation of the element is not anticipated to have negative impacts related to soils and geologic conditions. The *OSCAR Element*—with which implementation of the noise element must be consistent—provides policies and actions to minimize the potential for soil erosion resulting from development on hillside areas by requiring review of the grading ordinance every five years to keep it current with new construction methods and development of illustrated grading guidelines to accompany the grading ordinance (actions CO-2.4.1 and CO-2.4.2; page 3-9); and special provisions for development on fill soils to safeguard against subsidence and to consider soil constraints such as shrink/swell and low soil strength potential in the design of buildings (Policy CO-2.3, page 3-9, and Action CO-1.1.3, page 3-4). The *LUTE EIR* analyzed the potential impacts from seismic activity, erosion and geologic hazards (pages III.K-13 to III.K-20), and no additional impacts related to geology and soils are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR*.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
7. HAZARDS AND HAZARDOUS MATERIALS. Would the project...				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 7(a), (b), (c), (d), (e), (f), (g) and (h):

Since the noise element does not propose any construction or development projects, its implementation is not anticipated to have negative impacts related to hazardous materials. Also, no impacts related to hazardous materials are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages III.M-1 to III.M-20).

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
8. HYDROLOGY AND WATER QUALITY. Would the project...				
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Result in inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 8(a), (b), (c), (d), (e), (f), (g), (h), (i) and (j):

Since the noise element does not propose any construction or development projects, its implementation is not anticipated to have negative impacts on hydrology or water quality. Moreover, implementation of the City's Grading Ordinance; Sedimentation and Erosion Control Ordinance; and Creek Protection, Stormwater Management, and Discharge Control Ordinance protects water quality and water resources in Oakland (*LUTE EIR*, page III.I-7). The project would not increase impacts on water resources or the need for additional mitigation measures beyond those included in the *LUTE* and *OSCAR Element* (policies CO-5.1 to 5.4 and 6.1 to 6.6, W3.1 to 3.3 and N7.2 and 7.6). Policies and actions provided in the "Water Resources" section of the

OSCAR Element (Chapter 3, pages 3-12 to 3-23) address storm drainage facilities and the regulation of runoff, and provide flood reduction measures that would ensure new development would not worsen existing local flood hazards. No additional impacts related to hydrology and water quality are anticipated as a result of the noise element that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages III.I-5 to III.I-10).

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
9. LAND USE AND PLANNING. Would the project...				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in a fundamental conflict between adjacent or nearby land uses?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Fundamentally conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect, and actually result in a physical change in the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Fundamentally conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 9(a), (b) and (c):

Implementation of the noise element is not anticipated to have a negative impact related to land use and planning as it does not propose any projects, programs or actions that could reasonably be expected to physically divide an established community; conflict with applicable land use plans, policies or regulations; or conflict with any habitat conservation plan or natural community conservation plan. The location of future land uses was discussed and analyzed in the *General Plan LUTE EIR* (pages II.A-1 to II.A-32). The *LUTE EIR* considered the impact of noise on future development and directed development into areas that would comply with the City of Oakland’s noise element and noise requirements. The proposed Noise Element considered the *LUTE EIR*’s findings and recommendations and is consistent with the *LUTE EIR* and the *LUTE*. Accordingly, no additional impacts related to land use and planning are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages II.A-1 to II.A-32).

Conflicts with the General Plan or other applicable land use plan do not inherently result in a significant effect on the environment within the context of CEQA. As stated in Section 15358(b) of the CEQA Guidelines, “[e]ffects analyzed under CEQA must be related to a physical change.” Section 15125(d) of the Guidelines states that EIRs shall discuss any inconsistencies between the proposed project and applicable General Plans in the “Setting” section of the document (not under impacts). Further, Appendix G of the Guidelines (Environmental Checklist Form) makes explicit the focus on environmental policies and plans, asking if the project would “conflict with any applicable land use plan, policy, or regulation...adopted for the purpose of avoiding or mitigating an environmental effect” (emphasis added). Even a response in the affirmative, however, does not necessarily indicate the project would have a significant effect, unless a physical change would occur. To the extent that physical impacts may result from such conflicts, such physical impacts are analyzed elsewhere in this document. The General Plan contains many policies, which may in some cases address different goals, and thus some policies may compete with each other. The Planning Commission/City Council, in deciding whether to approve the proposed project, must decide whether, on balance, the project is consistent (i.e., in general harmony) with the General Plan.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
10. MINERAL RESOURCES. Would the project...				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 10(a) and (b):

Implementation of the noise element is not anticipated to have a negative impact on mineral resources as it does not propose any projects, programs or actions that could reasonably be expected to result in the loss of availability of a known valuable mineral resource or of an important mineral resource recovery site.

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
11. NOISE. Would the project ...				
a) Expose persons to or generate noise levels in excess of standards established in the Oakland general plan or applicable standards of other agencies (e.g., OSHA)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Violate the City of Oakland's noise performance standards (Oakland Planning Code Section 17.120.050) regarding operational noise?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Violate the City of Oakland's noise performance standards (Oakland Planning Code Section 17.120.050) regarding construction noise, except if an acoustical analysis is performed and all feasible mitigation measures imposed, including the standard City of Oakland noise measures adopted by the Oakland City Council on January 16, 2001?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Violate the City of Oakland's noise ordinance (Oakland Municipal Code Section 8.18.020) regarding nuisance of persistent construction-related noise?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create a vibration which is perceptible without instruments by the average person at or beyond any lot line containing vibration-causing activities not associated with motor vehicles, trains, and temporary construction or demolition work, except activities located within the (a) M-40 zone or (b) M-30 zone more than 400 feet from any legally occupied residential property (Oakland Planning Code Section 17.120.060)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Generate interior L _{dn} or CNEL greater than 45 dBA for multi-family dwellings, hotels, motels, dormitories and long-term care facilities (and may be extended by local legislative action to include single family dwellings) per California Noise Insulation Standards (CCR Part 2, Title 24)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Result in a 5 dBA permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| h) Conflict with state land use compatibility guidelines for all specified land uses for determination of acceptability of noise [Source: State of California, Governor's Office of Planning and Research, <i>General Plan Guidelines, 2003</i> (Appendix C, Figure 2)]? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| i) Be located within an airport land use plan and expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| j) Be located within the vicinity of a private airstrip and expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments to Sections 11(a), (b), (c), (d), (e) and (f):

Implementation of the noise element is not anticipated to have a negative impact related to noise as it does not propose any projects, programs or actions that could reasonably be expected to degrade the community's noise environment, and as it does not make the receiver-based noise-compatibility guidelines matrix any less protective of the noise environment. (The guidelines matrix is contained in the noise element and is meant to provide the City with a basis for determining the degree of acceptability of exposing specified land uses to a range of ambient-noise levels). On the contrary, implementation of the noise element is designed to reduce the community's exposure to noise. The location of future land uses was discussed and analyzed in the General Plan LUTE EIR (pages IIA-1 to IIA-32). The LUTE EIR considered the impact of noise on future development and directed development into areas that would comply with the City of Oakland's noise element and noise requirements. The proposed Noise Element considered the LUTE EIR's findings and recommendations and is consistent with the LUTE EIR and the LUTE. Also, any specific development projects proposed subsequent to the adoption of the noise element would be subject to their own, separate CEQA review process. No additional impacts related to noise are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR*.

12. POPULATION AND HOUSING. Would the project...

- | | Potentially significant impact | Potentially significant unless mitigation incorporated | Less than significant impact | No impact |
|---|--------------------------------|--|------------------------------|-------------------------------------|
| a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments to Sections 12(a), (b) and (c):

Implementation of the noise element is not anticipated to have a negative impact related to population and housing as it does not propose any projects, programs or actions that could reasonably be expected to induce substantial population growth in the area, or to displace substantial numbers of people or of existing housing units. No additional impacts related to population and housing are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages III.C-1 to III.C-2).

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
13. PUBLIC SERVICES. Would the project result in substantial adverse physical impacts associated with the provision of, or the need for, new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:				
a) Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 13(a), (b), (c), (d) and (e):

Implementation of the noise element is not anticipated to have a negative impact on public services. The element does not propose any projects, programs or actions that could reasonably be expected to result in substantial physical impacts associated with the provision or expansion of public facilities related to fire protection, police protection, schools, parks or other public services. No additional impacts related to public services are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages III.D-20 to III.D-38).

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
14. RECREATION. Would the project...				
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 14(a) and (b):

Implementation of the noise element is not anticipated to have a negative impact related to recreation as it does not propose any projects, programs or actions that could reasonably be expected to substantially increase the use of neighborhood or regional recreational facilities, or to require the construction or expansion of recreational facilities. Moreover, Chapter 4 of the *OSCAR Element* discusses recreation resources and identifies objectives to maintain, preserve, and expand parklands (pages 4-25 to 4-68). The policies provided in the *OSCAR Element* reduce recreation-related impacts and provide for funding opportunities to maintain parklands (policies REC-3.1 to 3.3, 4.1, 6.1 to 6.3, 7.1, 10.1 and 10.2). No additional impacts related to recreation are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages III.D-39 to III.D-44).

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
15. TRANSPORTATION/TRAFFIC. Would the project...				
a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments to Sections 15(a), (b), (c), (d), (e), (f) and (g):

Implementation of the noise element is not anticipated to have a negative impact on traffic or transportation as it does not propose any projects, programs or actions that could reasonably be expected to cause a substantial increase in traffic; exceed traffic level-of-service standards; result in a change in air traffic patterns; substantially increase traffic-related hazards, result in inadequate emergency access; result in inadequate parking capacity; or interfere with alternative-transportation modes. No additional impacts related to utilities and service systems are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages III.D-1 to III.D-20).

	Potentially significant impact	Potentially significant unless mitigation incorporated	Less than significant impact	No impact
16. UTILITIES AND SERVICE SYSTEMS. Would the project...				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g) Comply with federal, state, and local statutes and regulations related to solid waste? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments to Sections 16(a), (b), (c), (d), (e), (f) and (g):

Implementation of the noise element is not anticipated to have a negative impact on utilities and service systems as it does not propose any projects, programs or actions that could reasonably be expected to exceed wastewater treatment requirements; result in the construction or expansion of water, wastewater-treatment or stormwater-drainage facilities; result in insufficient water supplies or landfill capacity; or violate solid-waste related regulations. No additional impacts related to utilities and service systems are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR* (pages III.D-1 to III.D-20).

17. MANDATORY FINDINGS OF SIGNIFICANCE

- | | Potentially significant impact | Potentially significant unless mitigation incorporated | Less than significant impact | No impact |
|---|--------------------------------|--|------------------------------|-------------------------------------|
| a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments to Sections 17(a), (b) and (c):

Implementation of the noise element is not anticipated to degrade biological resources or the overall quality of the natural environment in Oakland; to eliminate important historic or prehistoric resources; to have environmental effects causing substantial adverse effects on humans; or to have cumulatively considerable impacts. No new impacts are anticipated as a result of the project that have not already been analyzed and evaluated as part of the *General Plan LUTE EIR*.

RESOURCES CONSULTED

- *City of Oakland General Plan Historic Preservation Element* (March 1994)
- *City of Oakland General Plan Open Space, Conservation, and Recreation Element* (June 1996)
- *City of Oakland General Plan Land Use and Transportation Element Notice of Preparation and Initial Study* (March 1997)
- *City of Oakland General Plan Land Use and Transportation Element Draft Environmental Impact Report* (October 1997)
- *City of Oakland General Plan Land Use and Transportation Element Final Addendum to the Draft Environmental Impact Report* (February 1998)
- *City of Oakland General Plan Land Use and Transportation Element* (March 1998)
- *City of Oakland Bicycle Master Plan* (July 1999)
- *City of Oakland Pedestrian Master Plan* (November 2002)
- *City of Oakland Public Review Draft Housing Element* (April 2003)
- *City of Oakland Safety Element* (November 2004)

PREPARER OF NEGATIVE DECLARATION

Niko Letunic, City of Oakland, Community and Economic Development Agency

M. ...
DEPUTY CITY ATTORNEY

2005 JUN -2 PM 12:47

OAKLAND CITY COUNCIL

RESOLUTION No. _____ C. M. S.

INTRODUCED BY COUNCILMEMBER _____

A RESOLUTION APPROVING A NEGATIVE DECLARATION FOR THE UPDATED *NOISE ELEMENT* OF THE OAKLAND GENERAL PLAN AND ADOPTING THE UPDATED *NOISE ELEMENT*

WHEREAS, California Government Code Section 65300 requires that every planning agency prepare, and the legislative body of every county and city adopt, a comprehensive, long-term general plan for the physical development of the country or city; and

WHEREAS, California Government Code Section 65302 requires that the general plan include a noise element for the protection of the community from excessive noise; and

WHEREAS, the State of California's "General Plan Guidelines" recommends that the general plan be revised as new information becomes available and as community needs and values change; and is of the opinion that a general plan based upon outdated information and projections is not a sound basis for day-to-day decision-making; and

WHEREAS, the City of Oakland adopted its original *Noise Element* in 1974 and had not updated it since then even though the City's population and economy have expanded, and local land use patterns have changed; and

WHEREAS, the City of Oakland has prepared, with the input of City staff, the public and other interested public agencies, a draft of an updated *Noise Element*; and

WHEREAS, based on an initial study prepared under the California Environmental Quality Act of 1970 ("CEQA"), it was determined that the *Noise Element* could not have a significant effect on the environment, and a negative declaration was prepared; and

WHEREAS, the draft updated *Noise Element* and the initial study/negative declaration were circulated for public review for the requisite periods of time, including among the general public and among relevant government entities, as required by state law and regulations; and

WHEREAS, the City Planning Commission at its meeting of April 20, 2005, initially considered the draft updated *Noise Element* and the initial study/negative declaration but decided to continue the item until its next meeting to give the public additional time to provide comments; and

WHEREAS, the City Planning Commission again considered the draft updated *Noise Element* and the initial study/negative declaration at its meeting of June 1, 2005, and

recommended to the City Council approval of the negative declaration and adoption of the *Noise Element*; and

WHEREAS, the Community and Economic Development Committee of the City Council at its meeting of June 14, 2005, also considered the draft updated *Noise Element* and the initial study/negative declaration, and also recommended to the City Council approval of the negative declaration and adoption of the *Noise Element*; Now, therefore, be it

RESOLVED: that the City Council approves the negative declaration for the updated *Noise Element*, determines that this resolution complies with CEQA (based upon the findings of the City Planning Commission) and confirms, adopts and incorporates into this resolution the CEQA findings made by the Planning Commission regarding the *Noise Element*.

FURTHER RESOLVED: that the City Council hereby adopts the updated *Noise Element* as an element of the City's general plan.

FURTHER RESOLVED: that the City Administrator is directed to file a notice of determination for the negative declaration with the Alameda County Clerk within five working days of approval.

FURTHER RESOLVED: that the record before this Council relating to this resolution includes, without limitation, the following: (1) the *Noise Element*, including all accompanying maps and papers; (2) all final staff reports, final decision letters and other final documentation and information produced by or on behalf of the City, including without limitation the initial study/negative declaration and supporting final technical studies and appendices, and all related/supporting final materials and final notices regarding the *Noise Element*; (3) all oral and written evidence received by the City Planning Commission and City Council during the public hearings on the *Noise Element*; and all written evidence received by relevant City Staff before and during the public hearings on the *Noise Element*; and (4) all matters of common knowledge and all official enactments and acts of the City, such as the general plan, Oakland Municipal Code (including, without limitation, the Oakland real estate regulations and Oakland Fire Code), Oakland Planning Code, other applicant City policies and regulations, and all applicable state and federal laws, rules and regulations.

FURTHER RESOLVED: that the custodians and locations of the documents or other materials which constitute the record of proceedings upon which the City Council's decision is based are: (a) Community and Economic Development Agency, Planning & Zoning Division, 250 Frank H. Ogawa Plaza, Suite 3315, Oakland, California; and (b) Office of the City Clerk, 1 Frank H. Ogawa Plaza, 1st Floor, Oakland, California.

IN COUNCIL, OAKLAND, CALIFORNIA, _____, 2005

PASSED BY THE FOLLOWING VOTE:

AYES-

NOES-

ABSENT-

ABSTENTION-

ATTEST _____

LATONDA SIMMONS
Agency Secretary/City Clerk and
Clerk of the Council of the City of Oakland, California