APPENDIX B

AIR QUALITY TECHNICAL REPORT

AIR QUALITY ANALYSIS

LONG BEACH SPORTS PARK

LONG BEACH, CALIFORNIA

LSA

September 2004

AIR QUALITY ANALYSIS

LONG BEACH SPORTS PARK

LONG BEACH, CALIFORNIA

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LSA Project No. CLB231

LSA

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1.0 EXECUTIVE SUMMARY

LSA Associates, Inc. (LSA) was retained to prepare an air quality study for the proposed Long Beach Sports Park, located south of Spring Street between California Avenue on the west and Orange Avenue on the east, a pay-for-play Sports Park, youth golf center, and commercial (retail/office) parcel on a 55.5-acre site in the City of Long Beach.

This air quality analysis provides a discussion of the proposed project, the physical setting of the project area, and the regulatory framework for air quality. The analysis provides data on existing air quality, evaluates potential air quality impacts associated with the proposed project, and identifies mitigation measures. Modeled air quality levels are based on vehicle data and project trip generation prepared for this project.

The project includes a General Plan Amendment, Zone Change, and a Lot Line Adjustment (LLA) for the creation of a commercial parcel. The project site is within the Signal Hill West Unit (SHWU), an active oil field since the early 1900s. Properties surrounding the project site include vacant land and various industrial and commercial developments to the north, east, and west, and two adjacent cemeteries to the south. The recreation components of the Sports Park include four soccer fields, six softball/baseball diamonds, a skate park, batting cages, two playgrounds, a volleyball court, and soccer arenas. There will also be three restaurant/concession buildings and a 2.5-acre commercial parcel in the northwest corner. The layout of the recreation uses and parking areas reflects the potential physical constraints of the site, which include continued operation of 19 oil wells (17 on site and 2 adjacent to the site) owned and operated by Signal Hill Petroleum, Inc. (SHPI) on or in close proximity to the project site. The site is rectangular in shape with the exception of a ±1.4-acre parcel (“outparcel”) that will remain under ownership of SHPI and is not included in the proposed project.

Historical air quality data show that existing carbon monoxide (CO) levels for the project area and the general vicinity do not exceed either the State or federal ambient air quality standards (AAQS). A CO Hotspots analysis was conducted with the CALINE4 model and peak-hour intersection vehicle turn volumes for the baseline and with project scenarios at 12 intersections for the existing (year 2004) and project opening year (2006). The results showed that project-related traffic would not significantly affect local CO levels, and the CO concentrations would stay below the State and federal CO standards. Compliance with South Coast Air Quality Management District (SCAQMD) Rules and Regulations during construction will reduce construction-related air quality impacts from fugitive dust emissions and construction equipment emissions. Even so, short-term construction emissions are expected to exceed the SCAQMD criteria pollutant thresholds for NO_x and PM_{10}. Long-term operational emissions associated with the proposed project, calculated with the URBEMIS 2002 model, are projected to exceed the SCAQMD criteria pollutant thresholds for CO and NO_x on Saturdays only.

The project site is planned for development (industrial and institutional) in the adopted City of Long Beach General Plan. The proposed Sports Park is of comparable or less intensity than the current site designation. Therefore, the emissions associated with occupation and use of the project are not expected to violate any SCAQMD standards or contribute to air quality deterioration beyond current SCAQMD projections.

This evaluation was prepared in conformance with appropriate standards, utilizing procedures and methodologies in the SCAQMD California Environmental Quality Act (CEQA) Air Quality Handbook.

2.0 PROJECT DESCRIPTION

2.1 PROJECT LOCATION

The City of Long Beach is approximately 20 miles south of downtown Los Angeles and is adjacent to the Pacific Ocean. The Long Beach Municipal Airport is located approximately two miles northeast of the project site. Regional access to the project site is provided by Interstate 405 (I-405) and Interstate 710 (I-710) to the north and west. Figure 1, Project Location, provides regional and local maps depicting the project location.

2.2 PROJECT SITE EXISTING SETTING

Comprising approximately 55.5 acres, the proposed project site is located south of Spring Street between California Avenue on the west and Orange Avenue on the east. The Long Beach Municipal and Sunnyside Cemeteries are south of the project site. The City of Long Beach owns most of the project site and is negotiating for the purchase of the remainder of the property. The site is rectangular in shape with the exception of a ±1.4-acre parcel ("outparcel") that will remain under the ownership of SHPI and will not be included in the proposed project. Although the project site is located entirely within the City of Long Beach, the City of Signal Hill is adjacent to the site along Orange and California Avenues and across a portion of Spring Street.

2.3 PROJECT DESCRIPTION

The City of Long Beach proposes to develop a pay-for-play Sports Park and a youth golf center and to rezone a portion of the ±55-acre project site for commercial (retail/office) use. The project also includes a General Plan Amendment, Zone Change, and lot line adjustments for the creation of the outparcel and commercial parcel. The recreation components of the Sports Park include four soccer fields, six softball/baseball diamonds, a skate park, batting cages, two playgrounds, a volleyball court, and soccer arenas. Patrons of the Sports Park will be charged for the use of the sports facilities. The project also includes a youth golf training center that will be operated separately from the Sports Park. It is anticipated that the Sports Park facilities and youth golf center would be operated by one or more commercial operators, with the property remaining under the ownership of the City.

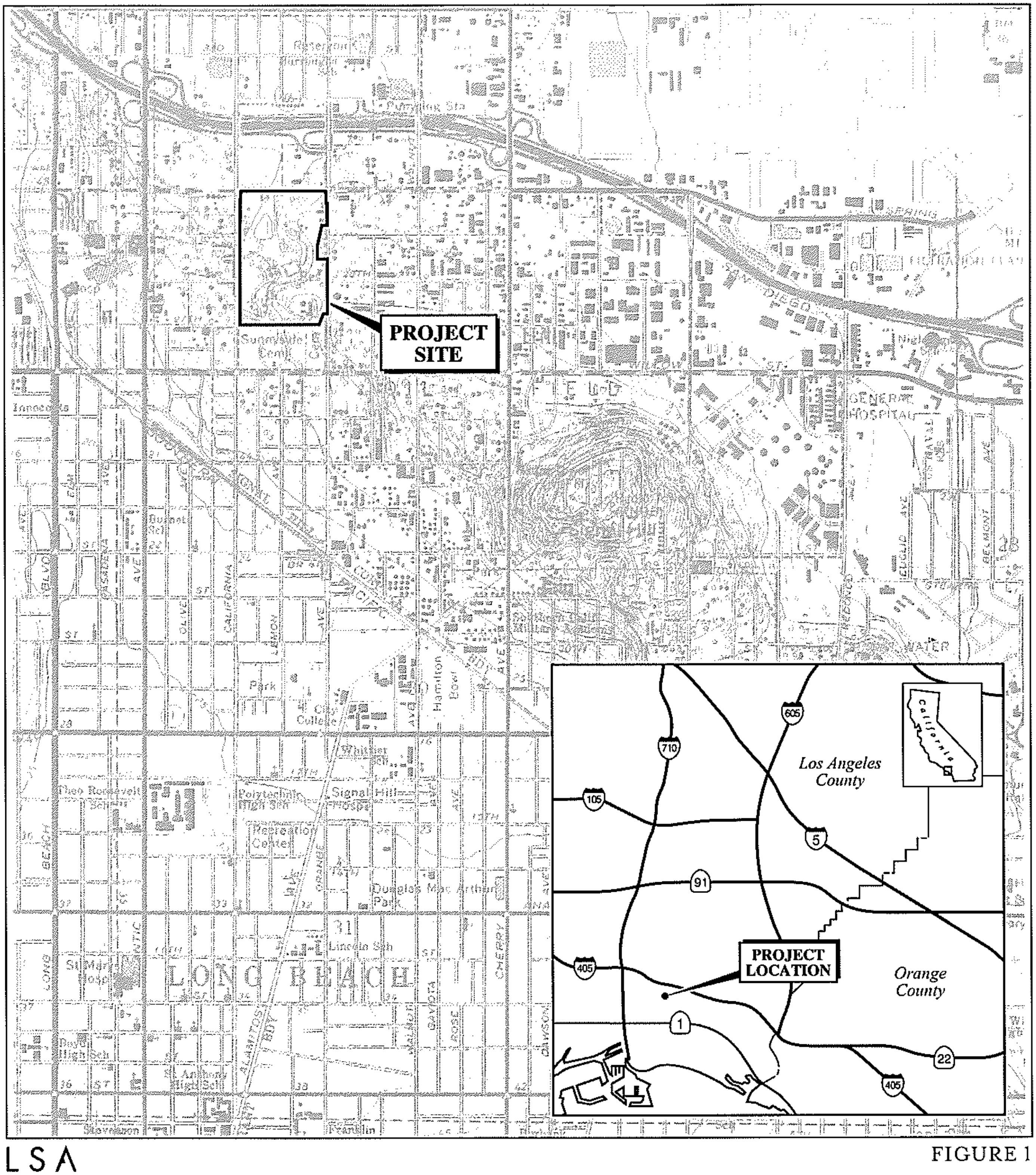

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FIGURE 1

SOURCE: USGS 7.5" QUAD - LONG BEACH, CA.

Long Beach Sports Park

Project Location

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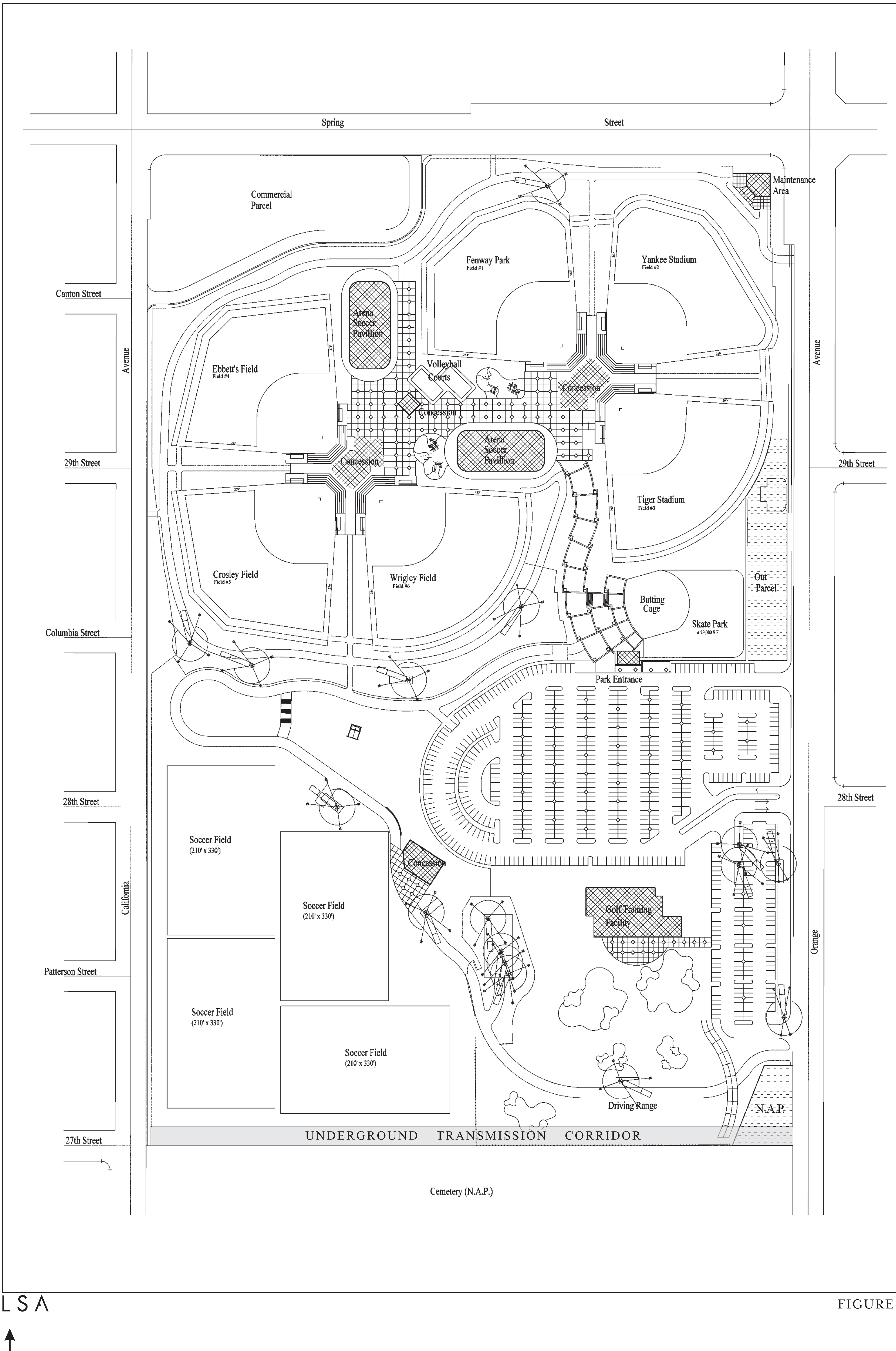

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FIGURE 2

NOT TO SCALE

SOURCE: RJM DESIGN GROUP

Long Beach Sports Park

Proposed Project

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3.0 SETTING

3.1 EXISTING ENVIRONMENTAL SETTING

The project site is located within the City of Long Beach, which is part of the South Coast Air Basin (Basin) and is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The air quality assessment for the proposed project includes estimating emissions associated with short-term construction and long-term operation of the proposed project.

A number of air quality modeling tools are available to assess air quality impacts of projects. In addition, certain air districts, such as the SCAQMD, have created guidelines and requirements to conduct air quality analyses. The SCAQMD's current guidelines, included in its CEQA Air Quality Handbook (April 1993) were adhered to in the assessment of air quality impacts for the proposed project.

3.1.1 Regional Air Quality

Both the State of California (State) and the federal government have established health-based ambient air quality standards (AAQS) for six air pollutants. As shown in Table A, these pollutants include ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter with a diameter of 10 microns or less (PM_{10}), and lead. In July 1997, the U.S. Environmental Protection Agency (EPA) adopted new standards for eight-hour ozone and for fine particulate matter less than 2.5 microns in diameter ($PM_{2.5}$). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

In addition to setting out primary and secondary AAQS, the State has established a set of episode criteria for O_3, CO, NO_2, SO_2, and PM_{10}. These criteria refer to episode levels representing periods of short-term exposure to air pollutants that actually threaten public health. Health effects are progressively more severe as pollutant levels increase from Stage One to Stage Three. Table B lists the health effects of these criteria pollutants and their potential sources. These health effects would not occur unless the standards are exceeded by a large margin or for a prolonged period of time. The State AAQS are more stringent than the federal AAQS.

The California Clean Air Act (CCAA) provides the SCAQMD with the authority to manage transportation activities at indirect sources. Indirect sources of pollution are generated when minor sources collectively emit a substantial amount of pollution. Examples of this would be the motor vehicles at an intersection, a mall, and on highways. The SCAQMD also regulates stationary sources of pollution throughout its jurisdictional area. Direct emissions from motor vehicles are regulated by the California Air Resources Board (ARB).

Table A: Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]		Federal Standards[2]		
		Concentration[3]	**Method[4]**	**Primary[3,5]**	**Secondary[3,6]**	**Method[7]**
Ozone (O_3)	1-Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	0.12 ppm (235 µg/m^3)[8]	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	--		0.08 ppm (157 µg/m^3)[8]		
Respirable Particulate Matter (PM_{10})	24-Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		50 µg/m^3		
Fine Particulate Matter ($PM_{2.5}$)	24-Hour	No Separate State Standard		65 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	15 µg/m^3		
Carbon Monoxide (CO)	8-Hour	9.0 ppm (10 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m^3)	None	Non-Dispersive Infrared Photometry (NDIR)
	1-Hour	20 ppm (23 mg/m^3)		35 ppm (40 mg/m^3)		
	8-Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		--	--	--
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	--	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m^3)	Same as Primary Standard	Gas Phase Chemiluminescence
	1-Hour	0.25 ppm (470 µg/m^3)		--		
Sulfur Dioxide (SO_2)	Annual Arithmetic Mean	--	Ultraviolet Fluorescence	0.030 ppm (80 µg/m^3)	--	Spectrophotometry (Pararosaniline Method)
	24-Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (365 µg/m^3)	--	
	3-Hour	--		--	0.5 ppm (1300 µg/m^3)	
	1-Hour	0.25 ppm (655 µg/m^3)		--	--	
Lead[9]	30 Day Average	1.5 µg/m^3	Atomic Absorption	--	--	High Volume Sampler and Atomic Absorption
	Calendar Quarter	--		1.5 µg/m^3	Same as Primary Standard	
Visibility-Reducing Particles	8-Hour	Extinction coefficient of 0.23 per kilometer - visibility of ten miles or more (0.07-30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent. Method: Beta Attenuation and Transmittance through Filter Tape.		**No Federal Standards**		
Sulfates	24-Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1-Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Cloride[9]	24-Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

Source: ARB (July 2003).

Footnotes:

1 California standards for ozone; carbon monoxide (except Lake Tahoe); sulfur dioxide (1 and 24 hour); nitrogen dioxide; suspended particulate matter, PM_{10}; and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2 National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth-highest eight-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact U.S. EPA for further clarification and current federal policies.

3 Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25˚C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25˚C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4 Any equivalent procedure that can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5 National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6 National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7 Reference method as described by the EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the EPA.

8 New federal eight-hour ozone and fine particulate matter standards were promulgated by U.S. EPA on July 18, 1997. Contact U.S. EPA for further clarification and current federal policies.

9 The ARB has identified lead and vinyl chloride as ‘toxic air contaminants’ with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

Table B: Summary of Health Effects of the Major Criteria Air Pollutants

Pollutants	**Sources**	**Primary Effects**
Ozone (O_3)	Atmospheric reaction of organic gases with nitrogen oxides in the presence of sunlight.	Aggravation of respiratory and cardiovascular diseases. Irritation of eyes. Impairment of cardiopulmonary function. Plant leaf injury.
Nitrogen Dioxide (NO_2)	Motor vehicle exhaust. High temperature stationary combustion. Atmospheric reactions.	Aggravation of respiratory illness. Reduced visibility. Reduced plant growth. Formation of acid rain.
Carbon Monoxide (CO)	By-products from incomplete combustion of fuels and other carbon-containing substances, such as motor exhaust. Natural events, such as decomposition of organic matter.	Reduced tolerance for exercise. Impairment of mental function. Impairment of fetal development. Death at high levels of exposure. Aggravation of some heart diseases (angina).
Suspended Particulate Matter ($PM_{2.5}$ and PM_{10})	Stationary combustion of solid fuels. Construction activities. Industrial processes. Atmospheric chemical reactions.	Reduced lung function. Aggravation of the effects of gaseous pollutants. Aggravation of respiratory and cardiorespiratory diseases. Increased cough and chest discomfort. Soiling. Reduced visibility.
Sulfur Dioxide (SO_2)	Combustion of sulfur-containing fossil fuels. Smelting of sulfur-bearing metal ores. Industrial processes.	Aggravation of respiratory diseases (asthma, emphysema). Reduced lung function. Irritation of eyes. Reduced visibility. Plant injury. Deterioration of metals, textiles, leather, finishes, coatings, etc.
Lead (Pb)	Contaminated soil (e.g., from leaded fuels and lead-based paints).	Impairment of blood function and nerve construction. Behavioral and hearing problems in children.

Source: ARB 2001.

Climate/Meteorology. Air quality in the planning area is not only affected by various emission sources (mobile, industry, etc.) but also by atmospheric conditions such as wind speed, wind direction, temperature, rainfall, etc. The combination of topography, low mixing height, abundant sunshine, and emissions from the second largest urban area in the United States give the Basin the worst air pollution problem in the nation.

Climate in the Basin is determined by its terrain and geographical location. The Basin is a coastal plain with connecting broad valleys and low hills. The Pacific Ocean forms the southwestern border, and high mountains surround the rest of the Basin. The Basin lies in the semi-permanent high-pressure zone of the eastern Pacific; the resulting climate is mild and tempered by cool ocean breezes. This climatological pattern is rarely interrupted. However, periods of extremely hot weather, winter storms, or Santa Ana wind conditions do occur.

The annual average temperature varies little throughout the Basin, ranging from the low to middle 60s, measured in degrees Fahrenheit. With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The climatological station closest to the site is the Long Beach WSCMO Station.[1] The monthly average maximum temperature recorded at this station from April 1958 to July 2003 ranged from 66.9°F in January to 84.1°F in August, with an annual average maximum of 74.3°F. The monthly average minimum temperature recorded at this station from ranged from 45.5°F in January to 64.9°F in August, with an annual average minimum of 54.7°F. January is typically the coldest month, and August is typically the warmest month in this area of the Basin.

The majority of annual rainfall in the Basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thunder showers in coastal regions and slightly heavier showers in the eastern portion of the Basin and along the coastal side of the mountains. The Long Beach WSCMO Station climatological station monitored precipitation from April 1958 to July 2003. Average monthly rainfall measured in Long Beach during that period varied from 2.85 inches in February to 0.29 inch or less between May and October, with an annual total of 11.97 inches. Patterns in monthly and yearly rainfall totals are unpredictable due to fluctuations in the weather.

Although the Basin has a semiarid climate, air near the surface is generally moist because of the presence of a shallow marine layer. With very low average wind speeds, there is a limited capacity to disperse air contaminants horizontally. The dominant daily wind pattern is an onshore 8 to 12 miles per hour (mph) daytime breeze and an offshore 3 to 5 mph nighttime breeze. The typical wind flow pattern fluctuates only with occasional winter storms or strong northeasterly (Santa Ana) winds from the mountains and deserts northeast of the Basin. Summer wind flow patterns represent worst-case conditions, because this is the period of higher temperatures and more sunlight, which results in O_3 formation.

Winds in the Long Beach area are almost always driven by the dominant land/sea breeze circulation system. Regional wind patterns are dominated by daytime onshore sea breezes. At night, the wind generally slows and reverses direction, traveling toward the sea. Wind direction is altered by local canyons, with wind tending to flow parallel to the canyons. During the transition period from one wind pattern to another, the dominant wind direction rotates into the south and causes a minor wind

[1] Western Regional Climate Center, www.wrcc@dri.edu.

direction maximum from the south. The frequency of calm winds (i.e., less than two miles per hour) is less than 10 percent. Therefore, there is little stagnation in the vicinity of the project, especially during busy daytime traffic hours.

During spring and early summer, pollution produced during any one day is typically blown out of the Basin through mountain passes or lifted by warm, vertical currents adjacent to mountain slopes. Air contaminants can be transported 60 miles or more from the Basin by ocean air during the afternoons. From early fall to winter, the transport is less pronounced because of slower average wind speed and the appearance of drainage winds earlier in the day. During stagnant wind conditions, offshore drainage winds may begin by late afternoon. Pollutants remaining in the Basin are trapped and begin to accumulate during the night and the following morning. A low morning wind speed in pollutant source areas is an important indicator of air stagnation and the potential for buildup of primary air contaminants.

Temperature normally decreases with altitude, and a reversal of this atmospheric state, where temperature increases with altitude, is called an inversion. The height from the Earth to the inversion base is known as the mixing height. Persistent low inversions and cool coastal air tend to create morning fog and low stratus clouds. Cloudy days are less likely in the eastern portions of the Basin and are about 25 percent more likely along the coast. The vertical dispersion of air pollutants in the Basin is limited by temperature inversions in the atmosphere close to the Earth’s surface.

Inversions are generally lower in the nighttime, when the ground is cool, than during daylight hours when the sun warms the ground and, in turn, the surface air layer. As this heating process continues, the temperature of the surface air layer approaches the temperature of the inversion base, causing heating along its lower edge. If enough warming takes place, the inversion layer becomes weak and opens up to allow the surface air layers to mix upward. This can be seen in the middle to late afternoon on a hot summer day when the smog appears to clear up suddenly. Winter inversions typically break earlier in the day, preventing excessive contaminant buildup.

The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas are transported predominantly onshore into Riverside and San Bernardino Counties. In the winter, the greatest pollution problem is accumulation of CO and NO_X due to extremely low inversions and air stagnation during the night and early morning hours. In the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and NO_X to form photochemical smog.

Air Pollution Constituents and Attainment Status. The following describes the six criteria air pollutants and their attainment status in the Basin based on ARB’s Area Designations (Activities and Maps) (http://www.arb.ca.gov/desig/desig.htm). ARB provided the EPA with California's recommendations for eight-hour ozone area designations on July 15, 2003. The recommendations and supporting data were an update to a report submitted to the EPA in July 2000. On December 3, 2003, the EPA published its proposed designations. The EPA's proposal differs from the State's recommendations primarily regarding the appropriate boundaries for several nonattainment areas. ARB responded to the EPA's proposal on February 4, 2004. The EPA issued the final designations for the eight-hour ozone standard on April 15, 2004.

Table C summarizes the attainment status in the Basin for the major criteria pollutants.

Table C: Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
O_3 1-hour	Nonattainment	Extreme Nonattainment
O_3 8-hour	Not Applicable (no State standard)	Severe-17 Nonattainment
PM_{10}	Nonattainment	Serious Nonattainment
$PM_{2.5}$	Not applicable (not established)	Nonattainment (preliminary)
CO	Attainment (except Los Angeles County)	Attainment (data finding in 2003 AQMP)
NO_2	Attainment	Attainment/Maintenance
SO_2	Attainment	Attainment
Lead	Attainment	Attainment
All others	Attainment/Unclassified	Attainment/Unclassified

Source: ARB 2004.

Ozone. O_3 (smog) is formed by photochemical reactions between NO_X and reactive organic gases (ROG) rather than being directly emitted. O_3 is a pungent colorless gas typical of Southern California smog. Elevated O_3 concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, the elderly, and young children. O_3 levels peak during summer and early fall. The entire Basin is designated as a nonattainment area for both federal and State one-hour O_3 standards. The EPA has classified the Basin as an “extreme” nonattainment area for the one-hour O_3 standard and has mandated that the Basin achieve attainment by 2010. On April 15, 2004, the EPA officially designated the Basin’s attainment status as severe-17 nonattainment for the eight-hour O_3 standard. However, based on the monitored data, it is likely the Basin will be a nonattainment area for the federal eight-hour O_3 standard.

Carbon Monoxide. CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. It is a colorless odorless gas that can cause dizziness, fatigue, and impairment to central nervous system functions. Although the SCAQMD has not officially requested the redesignation of CO attainment status from the EPA, it has stated in the 2003 AQMP that recent data collected in the entire Basin have not exceeded any federal CO standards. The Los Angeles County portion of the SCAQMD district (which includes Long Beach) has been designated by the ARB to be a nonattainment-transitional area for State CO standards.

Nitrogen Oxides. NO_2, a reddish-brown gas, and nitric oxide (NO), a colorless odorless gas, are formed from fuel combustion under high temperature or pressure. These compounds are referred to as nitrogen oxides, or NO_X. NO_X is a primary component of the photochemical smog reaction. It also contributes to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition (i.e., acid rain). NO_2 decreases lung function and may reduce resistance to infection. No areas of the Basin have exceeded both federal and State standards for NO_2 in the past five years with published monitoring data. It is designated as a maintenance area under the federal standards and an attainment area under the State standards.

Sulfur Dioxide. SO_2 is a colorless irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO_2 levels. SO_2 irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight. The entire Basin is in attainment with both federal and State SO_2 standards.

Lead. Lead is found in old paints and coatings, plumbing, and a variety of other materials. Once in the blood stream, lead can cause damage to the brain, nervous system, and other body systems. Children are highly susceptible to the effects of lead. The entire Basin is in attainment for the federal and State standards for lead.

Particulate Matter. Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles, PM_{10}, derive from a variety of sources, including windblown dust and grinding operations. Fuel combustion and resultant exhaust from power plants and diesel buses and trucks are primarily responsible for fine particle ($PM_{2.5}$) levels. Fine particles can also be formed in the atmosphere through chemical reactions. PM_{10} can accumulate in the respiratory system and aggravate health problems such as asthma. The EPA's scientific review concluded that $PM_{2.5}$, which penetrates deeply into the lungs, is more likely than PM_{10} to contribute to the health effects listed in a number of recently published community epidemiological studies at concentrations that extend well below those allowed by the current PM_{10} standards. These health effects include premature death and increased hospital admissions and emergency room visits (primarily the elderly and individuals with cardiopulmonary disease); increased respiratory symptoms and disease (children and individuals with cardiopulmonary disease such as asthma); decreased lung functions (particularly in children and individuals with asthma); and alterations in lung tissue and structure and in respiratory tract defense mechanisms. The entire Basin is a nonattainment area for the federal and State PM_{10} standards. The attainment status of $PM_{2.5}$ in the Basin was not officially established by the EPA or the ARB at the time this analysis was prepared. However, based on the monitored data, the Basin is likely to be designated as a nonattainment area for $PM_{2.5}$.

3.2 LOCAL AIR QUALITY

The SCAQMD, together with the ARB, maintains ambient air quality monitoring stations in the Basin. The air quality monitoring station closest to the site is the North Long Beach station, and its air quality trends are representative of the ambient air quality in the project area. The pollutants monitored are CO, O_3, PM_{10}, $PM_{2.5}$, NO_2, and SO_2.[1]

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1 Air quality data, 1999–2003; EPA and ARB Web sites.

The ambient air quality data in Table D shows that NO_2, SO_2, and CO levels are below the relevant State and federal standards at the North Long Beach station. The federal one-hour O_3 standard was exceeded one day in the last five years and the State standard from zero to three days in each of the last five years. The federal eight-hour O_3 standard has not been exceeded since 1994. The State 24-hour PM_{10} standard was exceeded from 5 to 13 days in each of the last 5 years but has not exceeded the federal 24-hour standard since 1984. The federal 24-hour $PM_{2.5}$ standard has not been exceeded for the last two years and in prior years was exceeded from one to four days each year. Both the State and federal annual average $PM_{2.5}$ standards have been exceeded every year since monitoring began in 1999.

3.3 REGULATORY SETTINGS

3.3.1 Federal Regulations/Standards

Pursuant to the federal Clean Air Act (CAA) of 1970, the EPA established national ambient air quality standards (NAAQS). The NAAQS were established for six major pollutants, termed “criteria” pollutants. Criteria pollutants are defined as those pollutants for which the federal and State governments have established AAQS, or criteria, for outdoor concentrations in order to protect public health.

Data collected at permanent monitoring stations are used by the EPA to classify regions as “attainment” or “nonattainment,” depending on whether the regions met the requirements stated in the primary NAAQS. Nonattainment areas are imposed with additional restrictions as required by the EPA.

The EPA has designated the Southern California Association of Governments (SCAG) as the Metropolitan Planning Organization (MPO) responsible for ensuring compliance with the requirements of the CAA for the Basin.

The EPA established new national air quality standards for ground-level O_3 and $PM_{2.5}$ matter in 1997. On May 14, 1999, the Court of Appeals for the District of Columbia Circuit issued a decision ruling that the CAA, as applied in setting the new public health standards for O_3 and particulate matter, was unconstitutional as an improper delegation of legislative authority to the EPA. On February 27, 2001, the U.S. Supreme Court upheld the way the government sets air quality standards under the CAA. The court unanimously rejected industry arguments that the EPA must consider financial cost as well as health benefits in writing standards. The justices also rejected arguments that the EPA took too much lawmaking power from Congress when it set tougher standards for O_3 and soot in 1997. Nevertheless, the court threw out the EPA’s policy for implementing new O_3 rules, saying that the agency ignored a section of the law that restricts its authority to enforce such rules.

In April 2003, the EPA was cleared by the White House Office of Management and Budget (OMB) to implement the eight-hour ground-level O_3 standard. The EPA issued the proposed rule implementing the eight-hour O_3 standard in April 2003. On April 15, 2004, the EPA issued the final designations for the eight-hour ozone standards for the State of California.

The EPA plans to issue the final $PM_{2.5}$ implementation rule in September 2004. The EPA is then expected to make final designations on December 15, 2004.

Table D: Ambient Air Quality at the North Long Beach Air Monitoring Station

Pollutant	Standard	2003	2002	2001	2000	1999
Carbon Monoxide (CO)						
Max 1-hr concentration (ppm)		5.5	5.8	6.0	9.7	7.5
No. days exceeded: State	> 20 ppm/1-hr	0	0	0	0	0
Federal	> 35 ppm/1-hr	0	0	0	0	0
Max 8-hr concentration (ppm)		4.7	4.6	4.7	5.7	5.5
No. days exceeded: State	≥ 9.0 ppm/8-hr	0	0	0	0	0
Federal	≥ 9 ppm/8-hr	0	0	0	0	0
Ozone O_3						
Max 1-hr concentration (ppm)		0.099	0.084	0.091	0.188	0.131
No. days exceeded: State	> 0.09 ppm/1-hr	1	0	0	3	3
Federal	> 0.12 ppm/1-hr	0	0	0	0	1
Max 8-hr concentration (ppm)		0.068	0.064	0.070	0.081	0.081
No. days exceeded: Federal	> 0.08 ppm/8-hr	0	0	0	0	0
Particulates (PM_{10})						
Max 24-hr concentration ($\mu g/m^3$)		63	74	91	105	79
No. days exceeded: State	> 50 $\mu g/m^3$/24-hr	10	5	10	12	13
Federal	> 150 $\mu g/m^3$/24-hr	0	0	0	0	0
Annual Arithmetic Average ($\mu g/m^3$)		34	36	37	38	39
Exceeded: State	> 20 $\mu g/m^3$ ann. arth. avg.	Yes	Yes	Yes	Yes	Yes
Federal	> 50 $\mu g/m^3$ ann. arth. avg.	No	No	No	No	No
Particulates ($PM_{2.5}$)						
Max 24-hr concentration ($\mu g/m^3$)		46.5	62.7	72.9	81.5	66.9
No. days exceeded: Federal	> 65 $\mu g/m^3$/24-hr	0	0	1	4	1
Annual Arithmetic Average ($\mu g/m^3$)		15.5	19.5	21.2	19.6	20.7
Exceeded: State	> 12 $\mu g/m^3$ ann. arth. avg.	Yes	Yes	Yes	Yes	Yes
Federal	> 15 $\mu g/m^3$ ann. arth. avg.	Yes	Yes	Yes	Yes	Yes
Nitrogen Dioxide (NO_2)						
Max 1-hr concentration (ppm)		0.135	0.130	0.122	0.140	0.151
No. days exceeded: State	> 0.25 ppm/1-hr	0	0	0	0	0
Annual arithmetic average concentration (ppm)		0.026	0.029	0.030	0.032	0.034
Exceeded: Federal	> 0.053 ppm ann. arth. avg.	No	No	No	No	No
Sulfur Dioxide (SO_2)						
Max 1-hr concentration (ppm)		0.033	0.030	0.047	0.047	0.050
No. days exceeded: State	> 0.25 ppm/1-hr	0	0	0	0	0
Max 3-hr concentration (ppm)		0.020	0.026	0.027	0.036	0.030
No. days exceeded: Federal	> 0.5 ppm/3-hr	0	0	0	0	0
Max 24-hr concentration (ppm)		0.008	0.008	0.009	0.011	0.011
No. days exceeded: State	> 0.04 ppm/24-hr	0	0	0	0	0
Federal	> 0.14 ppm/24-hr	0	0	0	0	0
Annual arithmetic average concentration (ppm)		0.003	0.002	0.003	0.003	0.004
Exceeded: Federal	> 0.030 ppm ann. arth. avg.	No	No	No	No	No

Source: EPA and ARB 1999 to 2003
ppm = parts per million
$\mu g/m^3$ = microgram of pollutant per cubic meter of air
ann. arth. avg. = annual arithmetic average

3.3.2 State Regulations/Standards

The State began to set California ambient air quality standards (CAAQS) in 1969 under the mandate of the Mulford-Carrell Act. The CAAQS are generally more stringent than the NAAQS. In addition to the six criteria pollutants covered by the NAAQS, there are CAAQS for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are also listed in Table A.

Originally, there were no attainment deadlines for CAAQS. However, the CCAA of 1988 provided a time frame and a planning structure to promote their attainment. The CCAA required nonattainment areas in the State to prepare attainment plans and proposed to classify each such area on the basis of the submitted plan, as follows: moderate, if CAAQS attainment could not occur before December 31, 1994; serious, if CAAQS attainment could not occur before December 31, 1997; and severe, if CAAQS attainment could not be conclusively demonstrated at all.

The attainment plans are required to achieve a minimum 5 percent annual reduction in the emissions of nonattainment pollutants unless all feasible measures have been implemented. The Basin is currently classified as a nonattainment area for four criteria pollutants. The 1976 Lewis Air Quality Management Act established the SCAQMD and other air districts throughout the State. The federal CAA Amendments of 1977 required that each state adopt an implementation plan outlining pollution control measures to attain the federal standards in nonattainment areas of the state.

The ARB coordinates and oversees both State and federal air pollution control programs in California. The ARB oversees activities of local air quality management agencies and is responsible for incorporating air quality management plans for local air basins into a State Implementation Plan (SIP) for EPA approval. The ARB maintains air quality monitoring stations throughout the State in conjunction with local air districts. Data collected at these stations are used by the ARB to classify air basins as “attainment” or “nonattainment” with respect to each pollutant and to monitor progress in attaining air quality standards. The ARB has divided the State into 15 air basins. Significant authority for air quality control within them has been given to local air districts that regulate stationary source emissions and develop local nonattainment plans.

Regional Air Quality Management Plan. The SCAQMD and the SCAG are responsible for formulating and implementing the AQMP for the Basin. Every three years the SCAQMD prepares a new AQMP, updating the previous plan and having a twenty-year horizon. The SCAQMD adopted the 2003 AQMP in August 2003 and forwarded it to ARB for review and approval. The ARB approved a modified version of the 2003 AQMP and forwarded it to the EPA in October 2003 for review and approval.

The 2003 AQMP updates the attainment demonstration for the federal standards for O_3 and PM_{10}; replaces the 1997 attainment demonstration for the federal CO standard; provides a basis for a maintenance plan for CO for the future; and updates the maintenance plan for the federal NO_2 standard that the Basin has met since 1992.

This revision to the AQMP also addresses several State and federal planning requirements and incorporates significant new scientific data, primarily in the form of updated emissions inventories, ambient measurements, new meteorological episodes, and new air quality modeling tools. The 2003 AQMP is consistent with and builds upon the approaches taken in the 1997 AQMP and the 1999

Amendments to the Ozone SIP for the South Coast Air Basin for the attainment of the federal ozone air quality standard. However, this revision points to the urgent need for additional emissions reductions (beyond those incorporated in the 1997/99 Plan) from all sources, specifically those under the jurisdiction of the ARB and the U.S. Environmental Protection Agency, which account for approximately 80 percent of the ozone precursor emissions in the Basin.

The 1999 Amendment to the 1997 Ozone SIP Revision for the South Coast Air Basin, adopted by the SCAQMD on December 10, 1999, and approved by the EPA in April 2000, is the most recent federally approved AQMP.

The 1999 Amendment provides additional short-term stationary source control measures that implement portions of the 1997 Ozone SIP's long-term stationary source control measures. In addition, the Amendment revises the adoption and implementation schedule for the remaining 1997 Ozone SIP short-term stationary source control measures that the AQMD is responsible to implement.

The 1999 Amendment addresses U.S. EPA concerns relative to the adoption schedule for the 1997 Ozone SIP Revision short-term control measures and the increased reliance on long-term control measures. The U.S. EPA indicated in a letter to the Governing Board that it believes the 1999 Amendment would be approvable and would expedite the review and approval process.

The 1999 Amendment does not revise the PM_{10} portion of the 1997 AQMP, emission inventories, the mobile source portions of the 1997 Ozone SIP Revision, or the ozone attainment demonstration. However, with the new short-term stationary source control measures, additional emission reductions are projected to occur in the near-term.

Specifically, the 1999 Amendment:

- includes new short-term stationary source control measures;
- revises the adoption/implementation schedule for 13 short-term VOC and NO_X stationary source control measures from the 1997 Ozone SIP Revision;
- provides further VOC emission reductions in the near-term; and
- revises the emission reduction commitments for the long-term control measures in the 1997 Ozone SIP Revision long-term stationary source control measures that the SCAQMD is responsible to implement.

4.0 METHODOLOGY

A number of modeling tools are available to assess air quality impacts of projects. In addition, certain air districts, such as the SCAQMD, have created guidelines and requirements to conduct air quality analysis. SCAQMD's current guidelines, CEQA Air Quality Handbook, April 1993, were adhered to in the assessment of air quality impacts for the proposed project. The air quality models identified in the document are outdated; therefore, the URBEMIS 2002 model was used to estimate project-related mobile and stationary sources emissions in this air quality assessment.

The air quality assessment includes estimating emissions associated with short-term construction and long-term operation of the proposed project. Criteria pollutants with regional impacts would be emitted by project-related vehicular trips, as well as by emissions associated with stationary sources used on site. Localized air quality impacts, i.e., higher CO concentrations (CO hot spots) near intersections or roadway segments in the project vicinity, would be small and less than significant due to the generally low ambient CO concentrations in the project area. A local CO hot spot analysis was conducted. Project-specific information was used in the modeling. Default values representative of the proposed project were used when project-specific data were not available.

The net increase in pollutant emissions determine the significance and impact on regional air quality as a result of the proposed project. The results also allow the local government to determine whether the proposed project will deter the region from achieving the goal of reducing pollutants in accordance with the AQMP in order to comply with federal and State AAQS.

4.1 THRESHOLDS OF SIGNIFICANCE

A project would normally be considered to have a significant effect on air quality if the project would:

- Violate any AAQS
- Contribute substantially to an existing air quality violation
- Expose sensitive receptors to substantial pollutant concentrations
- Conflict with adopted environmental plans and goals of the community in which it is located

In addition to the federal and State AAQS, there are daily and quarterly emissions thresholds for construction and operation of a proposed project in the Basin. The Basin is administered by the SCAQMD, and guidelines and emissions thresholds established by the SCAQMD in its CEQA Air Quality Handbook (SCAQMD, April 1993) are used in this analysis.

4.1.1 Thresholds for Construction Emissions

The following CEQA significance thresholds for construction emissions have been established for the Basin:

- 75 pounds per day or 2.5 tons per quarter of reactive organic compounds (ROC)
- 100 pounds per day or 2.5 tons per quarter of NO_X
- 550 pounds per day or 24.75 tons per quarter of CO
- 150 pounds per day or 6.75 tons per quarter of PM_{10}
- 150 pounds per day or 6.75 tons per quarter of sulfur oxides (SO_X)

Projects in the Basin with construction-related emissions that exceed any of the emission thresholds should be considered to be significant under CEQA.

4.1.2 Thresholds for Operational Emissions

Following are the daily operational emissions "significance" thresholds for the Basin are as follows.

Emission Thresholds for Pollutants with Regional Effects. Projects with operation-related emissions that exceed any of the emission thresholds listed below are considered significant under the SCAQMD guidelines.

- 55 pounds per day of ROC
- 55 pounds per day of NO_X
- 550 pounds per day of CO
- 150 pounds per day of PM_{10}
- 150 pounds per day of SO_X

Local Microscale Concentration Standards. The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. If ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a State or federal standard, project emissions are considered significant if they increase one-hour CO concentrations by 1.0 part per million (ppm) or more or eight-hour CO concentrations by 0.45 ppm or more. The following are applicable local emission concentration standards for CO:

- California State one-hour CO standard of 20.0 ppm
- California State eight-hour CO standard of 9.0 ppm

5.0 IMPACTS

5.1 CONSTRUCTION IMPACTS

5.1.1 Equipment Exhausts and Related Construction Activities

Air quality impacts would occur during the construction of the proposed project from soil disturbance and equipment exhaust. Major sources of emissions during demolition, grading, and site preparation include exhaust emissions from construction vehicles and equipment and fugitive dust generated by construction vehicles and equipment traveling over exposed surfaces and demolition activities, as well as by soil disturbances from grading and backfilling. The following construction impact analysis summarizes construction emissions and associated impacts for the project site.

Demolition, grading and construction activities would cause combustion emissions from utility engines, heavy-duty construction vehicles, haul trucks, and vehicles transporting the construction crew. Exhaust emissions during demolition, grading and other construction activities envisioned on site vary daily as construction activity levels change. Peak grading days typically generate a larger amount of air pollutants than during other project construction days.

It is anticipated that demolition of the existing structures will take six to eight weeks. Implementation of the proposed project will require approximately 638,440 cubic yards of cut and 625,998 cubic yards of fill. It is anticipated that the cut and fill will be balanced on site, and the difference in these estimated volumes is intended to accommodate a minor amount of "shrinkage" that will occur when the on-site soils are converted to compacted fill. At the present time, it is also anticipated that much of the concrete rubble produced during demolition will be crushed on site so that it can be incorporated in planned fills and/or used as a paving base for the proposed project improvements. Air quality allowances have also been made for truck export of demolition debris that cannot be crushed and/or incorporated in proposed fills and also for export of local layers or lenses of organic soil (i.e., peat) encountered during grading that are unsuitable for use in the proposed fills. Equipment required would include four dozers working 10 hours per day during peak days, two pieces of crushing equipment, two loaders working eight hours a day each, and haul trucks making a total of 60 trips per day traveling 30 miles each way,

Grading and construction of the playing fields, parking lots, and building pads will take four to five months. Equipment required for grading would include two dozers working 10 hours per day during peak days, four scrapers working eight hours per day, haul trucks making a total of 40 trips per day traveling 30 miles each way, and two water trucks traveling 15 miles on site per day, as shown in Table E. In addition, it is assumed there would be 30 workers on site during demolition and 25 workers during grading, each traveling 40 miles per day to and from the site.

Table E summarizes peak daily emissions associated with construction equipment exhaust for the proposed project during the demolition and grading periods. Emissions during the building erection phase would be lower than the peak daily emissions presented in Table E. Table E shows that

Table E: Emissions from Construction Equipment Exhaust—Demolition and Grading

Source	Hours or Miles Per Day	Pollutants (lbs/day)				
		CO	**ROC**	**NO_X**	**SO_X**	**PM_{10}**
Demolition						
2 Dozers	10 hours	72	3.6	25	1.8	2.8
2 Loaders	8 hours	9.1	3.6	30	2.9	2.7
2 Crushing Equipment	8 hours	11	2.4	27	2.3	2.2
2 Hydraulic Hammers, backhoe mounted	8 hours	11	2.4	27	2.3	2.2
2 Water Trucks	15 miles	0.58	0.066	0.83	0.009	0.021
60 Haul Truck Trips	30 miles each	42	4.7	60	0.63	1.5
30 Worker Trips	40 miles each	13.2	0.62	1.7	0.008	0.02
Total Demolition		**160**	**17**	**170**	**9.9**	**12**
SCAQMD Threshold		**550**	**75**	**100**	**150**	**150**
Exceed Threshold?		**No**	**No**	**Yes**	**No**	**No**
Grading						
2 Dozers	10 hours	72	3.6	25	1.8	2.8
4 Scrapers	8 hours	40	8.6	123	15	13
2 Water Trucks	15 miles	0.58	0.066	0.83	0.009	0.021
40 Haul Truck Trips	30 miles each	23	2.6	33	0.35	0.84
25 Worker Trips	40 miles each	22	1.0	2.9	0.01	0.04
Total Grading		**160**	**16**	**190**	**17**	**17**
SCAQMD Threshold		**550**	**75**	**100**	**150**	**150**
Exceed Threshold?		**No**	**No**	**Yes**	**No**	**No**

Source: LSA Associates, Inc., March 2004.

construction equipment/vehicle emissions during demolition and grading periods would only exceed the SCAQMD established daily threshold for NO_X.

5.1.2 Fugitive Dust

Fugitive dust emissions are generally associated with demolition, land clearing, exposure, and cut and fill operations. Dust generated daily during construction would vary substantially, depending on the level of activity, the specific operations, and weather conditions. Nearby sensitive receptors, if any, and on-site workers may be exposed to blowing dust, depending upon prevailing wind conditions. Fugitive dust would also be generated as construction equipment or trucks travel on unpaved roads on the construction site.

PM_{10} emissions from grading operations during a peak construction day are based on assumptions and past experience on similar-sized projects. Based on the construction assumptions for the proposed project and emission factors from the EPA AP-42 and the SCAQMD CEQA Air Quality Handbook (21.8 lbs. of PM_{10} per hour would be generated from dirt/debris pushing per dozer/scraper and 0.00042 lbs. of PM_{10} per cubic foot of building volume from demolition), Table F lists the fugitive dust emissions during the grading periods. Table F shows that without mitigation measures, fugitive dust emissions during the grading periods would exceed the SCAQMD threshold of 150 pounds per day during construction. With the implementation of standard conditions, such as frequent watering (e.g., a minimum of twice per day), fugitive dust emissions from construction activities are expected to be reduced by 50 percent or more; however, they would still exceed the SCAQMD threshold. Prior to grading, the City must obtain a Rule 1166 Permit related to release of airborne contaminants. Table F also lists total construction emissions (fugitive dust emissions and construction equipment exhausts) during the grading periods. Table F shows that during peak grading days, daily total construction emissions of NO_x and PM_{10} would exceed the daily thresholds established by the SCAQMD even with mitigation measures implemented. Therefore, short-term construction impacts to air quality will be significant and adverse. Emissions of other criteria pollutants would be below the thresholds.

Table F: Peak Grading Day—Total Emissions (lbs./day)

Category	CO	ROC	NO_X	SO_X	PM_{10}
Vehicle/Equipment Exhaust (Table E)	158	16	186	17	17
Fugitive Dust from 10 hours of Dozer Soil Disturbance: No Mitigation	—	—	—	—	1,308
Fugitive Dust from 10 hours of Dozer Soil Disturbance: with Mitigation	—	—	—	—	654
Total Grading: No Mitigation	158	16	186	17	1,325
Total Grading: With Mitigation	158	16	186	17	671
SCAQMD Threshold	**550**	**75**	**100**	**150**	**150**
Exceeds SCAQMD Threshold?	**No**	**No**	**Yes**	**No**	**Yes**

Source: LSA Associates, Inc., March 2004.

5.1.3 Architectural Coatings

Architectural coatings contain volatile organic compounds (VOC) that are similar to ROC and are part of the O_3 precursors. At this stage of project planning, no detailed architectural coatings information is available. However, compliance with the SCAQMD Rules and Regulations on the use of architectural coatings should be considered sufficient. In addition, emissions associated with architectural coatings could be reduced by using precoated/natural-colored building materials, using water-based or low-VOC coating, and using coating transfer or spray equipment with high transfer efficiency. For example, a high-volume, low-pressure (HVLP) spray method is a coating application system operated at air pressure between 0.1 and 10 pounds per square inch gauge (psig), with 65 percent transfer efficiency. Manual applications such as paintbrush, hand roller, trowel, spatula, dauber, rag, or sponge have 100 percent transfer efficiency.

5.2 LONG-TERM REGIONAL AIR QUALITY IMPACTS

Long-term air emission impacts are those associated with stationary sources and mobile sources related to any change related to the proposed project. The proposed sports complex and commercial use would result in both stationary and mobile sources. The stationary source emissions from the commercial uses would come from the consumption of natural gas. Based on the traffic study prepared for this project (LLG, March 2004), implementation of the proposed project would generate 3,970 daily trips on weekdays and 7,240 daily trips on Saturdays. Long-term operational emissions associated with the proposed project, calculated with the URBEMIS 2002 model and showing project impacts, are also presented in Table G. Emissions from the project-related mobile sources would not exceed any criteria pollutant threshold during weekdays, but would exceed the operational thresholds for CO and NOx on Saturdays based on emission factors for year 2004. Therefore, the project-related long-term air quality impacts would be significant. To reduce the regional impacts, trees will be planted to provide shade and shadow to buildings.

Because most of the project's air quality impacts are generated by vehicle emissions, these project design features do not substantially reduce any long-term air quality impacts of the project. Therefore, impacts remain significant and adverse.

5.3 LONG-TERM MICROSCALE (CO HOT SPOT) ANALYSIS

Vehicular trips associated with the proposed project would contribute to the congestion at intersections and along roadway segments in the project vicinity. Localized air quality effects would occur when emissions from vehicular traffic increase in local areas as a result of the proposed project. The primary mobile source pollutant of local concern is CO, which is a direct function of vehicle idling time and, thus, traffic flow conditions. CO transport is extremely limited; it disperses rapidly with distance from the source under normal meteorological conditions. However, under certain extreme meteorological conditions, CO concentrations proximate to a congested roadway or intersection may reach unhealthful levels affecting local sensitive receptors (residents, school children, the elderly, hospital patients, etc). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentration, modeling is recommended to determine a project's effect on local CO levels.

Table G: Sports Park Operational Emissions

Source	Pollutants, lbs/day				
	CO	**ROC**	**NO_X**	**SO_2**	**PM_{10}**
Weekday emissions					
Stationary sources	1.3	0.2	0.3	0	0
Sports Park	328	24	31	0.30	28
Youth Golf Center	26	2.0	2.4	0.02	2.2
General Office	68	5.1	6.2	0.06	5.7
Total Weekday emissions	**423**	**31**	**40**	**0.4**	**36**
Saturday emissions					
Stationary sources	1.3	0.2	0.3	0	0
Sports Park	716	52	67	0.66	61
Youth Golf Center	19	1.5	1.8	0.02	1.6
General Office	10	1.2	0.9	0.01	0.9
Total Saturday emissions	**746**	**55**	**70**	**0.69**	**64**
SCAQMD Threshold	**550**	**55**	**55**	**150**	**150**
Exceed SCAQMD Threshold?	**No/Yes**[1]	**No/No**	**No/Yes**	**No/No**	**No/No**
Significant Air Quality Impact?	**Yes**	**No**	**Yes**	**No**	**No**

Source: LSA Associates, Inc., October 2004.

[1] Weekday/Saturday exceedance check.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at the North Long Beach station, the closest station with monitored CO data, showed a highest-recorded one-hour concentration of 9.7 ppm (State standard is 20 ppm) and a highest-recorded eight-hour concentration of 5.7 ppm (State standard is 9 ppm) during the past five years (see Table D).

The highest CO concentrations would occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis. Based on the traffic study (LLG, March 2004), CO hot spot analyses were conducted for existing and future cumulative conditions. The impact on local carbon monoxide levels was assessed with the ARB approved CALINE4 air quality model, which allows microscale CO concentrations to be estimated along roadway corridors or near intersections. This model is designed to identify localized concentrations of carbon monoxide, often termed "hot spots." A brief discussion of input to the CALINE4 model follows. The analysis was performed for the worst-case wind angle and wind speed condition and is based upon the following assumptions:

- Selected modeling locations represent the intersections closest to the project site, with the highest project related vehicle turning movements and the worst level of service deterioration.
- Twenty receptor locations with the possibility of extended outdoor exposure from 8 (approximately 26 feet) to 21 meters (approximately 69 feet) of the roadway centerline near intersections were modeled to determine carbon monoxide concentrations. These receptors are located in a grid around the intersection at a distance of 3 m (10 ft) from the roadway edge.
- The calculations assume a meteorological condition of almost no wind (0.5 meter/second), a suburban topographical condition between the source and receptor, and a mixing height of 1,000 meters, representing a worst-case scenario for CO concentrations.
- CO concentrations are calculated for the one-hour averaging period and then compared to the one-hour standards. CO eight-hour averages are extrapolated using techniques outlined in the SCAQMD CEQA Air Quality Handbook, October 1993, and compared to the eight-hour standards; a persistence factor of 0.7 was used to predict the eight-hour concentration in an attainment area.
- Concentrations are given in ppm at each of the receptor locations.
- The "at-grade" link option with speed adjusted based on average cruise speed and number of vehicles per lane per hour was used rather than the "intersection" link selection in the CALINE4 model (Caltrans has suggested that the "intersection" link should not be used due to an inappropriate algorithm based on outdated vehicle distribution).[1] Emission factors from the EMFAC2002 model for all vehicles based on the adjusted speed for the years 2004 and 2006 were used for the vehicle fleet.
- The highest levels of the second-highest one-hour and eight-hour CO concentrations monitored at the North Long Beach station in the past three years were used as background concentrations: 5.9 ppm for the one-hour CO and 4.6 ppm for the eight-hour CO. The "background" concentrations are then added to the model results for future with and without the proposed project conditions.

[1] Transportation Project-Level Carbon Monoxide Protocol, Caltrans, December 1997.

The proposed project would contribute to increased CO concentrations at intersections in the project vicinity. As shown in Table H, under existing conditions, all ten intersections analyzed would have one-hour and eight-hour CO concentrations below the federal and State standards. The existing CO concentrations are from current traffic in the vicinity of these intersections.

One future year scenario was evaluated for traffic impacts from the proposed project: the project build out year (2006). The CALINE4 model anticipates that emissions in the future years, including CO, will decrease with technology advancements in vehicular engine technology. The increase in traffic volumes would not outweigh the reduction in emission factors.

For the future opening year (2006) scenarios, traffic volumes projected for year 2006 were used, with the year 2006 emission factors for CO. The current year (2004) background CO concentrations at the North Long Beach station were used for the future opening year (2006) conditions. Table I shows that, under the year 2006 opening year condition, none of the twelve intersections analyzed would exceed either the one-hour or the eight-hour CO concentration federal and State standards. Even though higher traffic volumes are anticipated, the lower overall CO concentrations are generally due to lower future vehicular emissions from advanced technology and lower ambient CO levels in the future. The proposed project would contribute at most a 0.7 ppm increase to the one-hour CO concentrations and 0.5 ppm increase to the eight-hour CO concentrations at these intersections. The proposed project would not have a significant impact on local air quality for CO, and no mitigation measures would be required.

5.4 AIR QUALITY MANAGEMENT PLAN CONSISTENCY

In order to accurately assess the environmental impacts as a result of new or renovated developments, environmental pollution and population growth are projected for future scenarios.

The proposed project is a commercial recreational development. Population growth associated with the proposed project would be within the City’s General Plan projection. The project is consistent with the adopted AQMP.

5.5 STANDARD CONDITIONS

Construction Impacts. The project is required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 402 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM_{10} component). Compliance with these rules would reduce impacts on nearby sensitive receptors.

Following are the applicable Rule 403 measures:

- Apply nontoxic chemical soil stabilizers according to manufacturers’ specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).

Table H: Existing (2004) CO Concentrations[1]

Intersection	Receptor Distance to Road Centerline (Meters)	Existing One-Hour CO Concentration (ppm)	Existing Eight-Hour CO Concentration (ppm)	Exceeds State Standards	
				1-Hr	8-Hr
Atlantic Ave. & Spring St.	14	8.8	6.6	No	No
	14	8.7	6.6	No	No
	14	8.5	6.4	No	No
	14	8.4	6.4	No	No
Atlantic Ave. & Willow St.	21	8.8	6.6	No	No
	20	8.8	6.6	No	No
	17	8.8	6.6	No	No
	16	8.8	6.6	No	No
California Ave. & Spring St.	8	7.3	5.6	No	No
	8	7.2	5.5	No	No
	8	7.2	5.5	No	No
	8	7.2	5.5	No	No
California Ave. & Willow St.	17	8.0	6.1	No	No
	16	8.0	6.1	No	No
	16	8.0	6.1	No	No
	16	8.0	6.1	No	No
Orange Ave. & 32nd St.	12	7.3	5.6	No	No
	12	7.3	5.6	No	No
	12	7.2	5.5	No	No
	12	7.2	5.5	No	No
Orange Ave. & I-405 SB Ramps	14	7.9	6.0	No	No
	14	7.8	5.9	No	No
	14	7.8	5.9	No	No
	12	7.8	5.9	No	No
Orange Ave. & Spring St.	14	7.6	5.8	No	No
	14	7.6	5.8	No	No
	14	7.5	5.7	No	No
	14	7.5	5.7	No	No
Orange Ave. & 29th St.	12	6.9	5.3	No	No
	12	6.9	5.3	No	No
	8	6.9	5.3	No	No
	8	6.9	5.3	No	No
Orange Ave. & 28th St.	12	6.8	5.2	No	No
	12	6.8	5.2	No	No
	8	6.8	5.2	No	No
	8	6.8	5.2	No	No
Orange Ave. & Willow St.	17	8.4	6.4	No	No
	16	8.3	6.3	No	No
	16	8.2	6.2	No	No
	16	8.2	6.2	No	No
Walnut Ave. & Spring St.	14	7.3	5.6	No	No
	14	7.3	5.6	No	No
	14	7.2	5.5	No	No
	14	7.2	5.5	No	No
Walnut Ave. & Willow St.	17	8.3	6.3	No	No
	16	8.3	6.3	No	No
	16	8.3	6.3	No	No
	16	8.3	6.3	No	No

Source: LSA Associates, Inc., March, 2004.

[1] Includes ambient one-hour concentration of 5.9 ppm and ambient eight-hour concentration of 4.6 ppm. Measured at the 3648 N. Long Beach Blvd., Long Beach, CA, AQ Station (Los Angeles County).

Table I: Year 2006 CO Concentrations[1]

Intersection	Receptor Distance to Road Centerline (Meters)	Project Related Increase 1-hr/8-hr (ppm)	Without/With Project One-Hour CO Concentration (ppm)	Without/With Project Eight-Hour CO Concentration (ppm)	Exceeds State Standards	
					1-Hr	8-Hr
Atlantic Ave. & Spring St.	17 / 17	0.0 / 0.0	9.3 / 9.3	7.0 / 7.0	No	No
	15 / 15	0.1 / 0.0	9.0 / 9.1	6.8 / 6.8	No	No
	14 / 14	0.0 / 0.0	8.9 / 8.9	6.7 / 6.7	No	No
	14 / 14	0.0 / 0.0	8.8 / 8.8	6.6 / 6.6	No	No
Atlantic Ave. & Willow St.	21 / 21	0.0 / 0.0	9.2 / 9.2	6.9 / 6.9	No	No
	20 / 20	0.1 / 0.1	9.1 / 9.2	6.8 / 6.9	No	No
	17 / 17	0.1 / 0.1	9.1 / 9.2	6.8 / 6.9	No	No
	16 / 16	0.0 / 0.0	9.1 / 9.1	6.8 / 6.8	No	No
California Ave. & Spring St.	14 / 14	0.1 / 0.1	7.3 / 7.4	5.6 / 5.7	No	No
	14 / 14	0.1 / 0.1	7.2 / 7.3	5.5 / 5.6	No	No
	14 / 14	0.1 / 0.1	7.2 / 7.3	5.5 / 5.6	No	No
	14 / 14	0.1 / 0.1	7.2 / 7.3	5.5 / 5.6	No	No
California Ave. & Willow St.	17 / 17	0.0 / 0.0	8.2 / 8.2	6.2 / 6.2	No	No
	16 / 16	0.0 / 0.0	8.1 / 8.1	6.1 / 6.1	No	No
	16 / 16	0.0 / 0.0	8.1 / 8.1	6.1 / 6.1	No	No
	16 / 16	0.0 / 0.0	8.1 / 8.1	6.1 / 6.1	No	No
Orange Ave. & 32nd St.	12 / 12	0.0 / 0.0	7.7 / 7.7	5.9 / 5.9	No	No
	12 / 12	0.0 / 0.0	7.6 / 7.6	5.8 / 5.8	No	No
	12 / 12	0.1 / 0.0	7.4 / 7.5	5.7 / 5.7	No	No
	12 / 12	0.1 / 0.0	7.4 / 7.5	5.7 / 5.7	No	No
Orange Ave. & I-405 SB Ramps	14 / 14	0.2 / 0.2	7.8 / 8.0	5.9 / 6.1	No	No
	14 / 14	0.2 / 0.1	7.7 / 7.9	5.9 / 6.0	No	No
	14 / 12	0.1 / 0.0	7.7 / 7.8	5.9 / 5.9	No	No
	12 / 12	0.1 / 0.0	7.7 / 7.8	5.9 / 5.9	No	No
Orange Ave. & Spring St.	14 / 14	0.5 / 0.4	8.1 / 8.6	6.1 / 6.5	No	No
	14 / 14	0.6 / 0.4	8.0 / 8.6	6.1 / 6.5	No	No
	14 / 14	0.6 / 0.4	8.0 / 8.6	6.1 / 6.5	No	No
	14 / 14	0.5 / 0.3	8.0 / 8.5	6.1 / 6.4	No	No
Orange Ave. & 29th St.	12 / 12	0.2 / 0.1	6.9 / 7.1	5.3 / 5.4	No	No
	12 / 12	0.2 / 0.1	6.9 / 7.1	5.3 / 5.4	No	No
	8 / 12	0.3 / 0.2	6.8 / 7.1	5.2 / 5.4	No	No
	8 / 12	0.3 / 0.2	6.8 / 7.1	5.2 / 5.4	No	No
Orange Ave. & 28th St.	12 / 12	0.7 / 0.5	6.8 / 7.5	5.2 / 5.7	No	No
	12 / 12	0.7 / 0.5	6.8 / 7.5	5.2 / 5.7	No	No
	8 / 12	0.7 / 0.5	6.8 / 7.5	5.2 / 5.7	No	No
	8 / 8	0.6 / 0.5	6.8 / 7.4	5.2 / 5.7	No	No
Orange Ave. & Willow St.	17 / 17	0.0 / 0.0	8.6 / 8.6	6.5 / 6.5	No	No
	16 / 17	0.0 / 0.0	8.5 / 8.5	6.4 / 6.4	No	No
	16 / 16	0.0 / 0.0	8.4 / 8.4	6.4 / 6.4	No	No
	16 / 16	0.0 / 0.0	8.4 / 8.4	6.4 / 6.4	No	No
Walnut Ave. & Spring St.	14 / 14	0.1 / 0.1	7.3 / 7.4	5.6 / 5.7	No	No
	14 / 14	0.1 / 0.1	7.3 / 7.4	5.6 / 5.7	No	No
	14 / 14	0.1 / 0.1	7.2 / 7.3	5.5 / 5.6	No	No
	14 / 14	0.1 / 0.1	7.2 / 7.3	5.5 / 5.6	No	No
Walnut Ave. & Willow St.	17 / 17	0.0 / 0.0	8.3 / 8.3	6.3 / 6.3	No	No
	16 / 16	0.1 / 0.1	8.2 / 8.3	6.2 / 6.3	No	No
	16 / 16	0.0 / 0.0	8.2 / 8.2	6.2 / 6.2	No	No
	16 / 16	0.0 / 0.0	8.2 / 8.2	6.2 / 6.2	No	No

Source: LSA Associates, Inc., March, 2004.

[1] Includes ambient one-hour concentration of 5.9 ppm and ambient eight-hour concentration of 4.6 ppm. Measured at the 3648 N. Long Beach Blvd., Long Beach, CA, AQ Station (Los Angeles County).

- Water active sites at least twice daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving).
- All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least two feet of freeboard in accordance with the requirements of California Vehicle Code (CVC) Section 23114 (freeboard means vertical space between the top of the load and top of the trailer).
- Pave construction access roads at least 100 feet onto the site from main road.
- Traffic speeds on all unpaved roads shall be reduced to 15 mph or less.

Project Operations. The project is expected to create total (vehicular and stationary) daily emissions exceeding the daily emissions thresholds established by the SCAQMD.

The proposed project will be required to comply with Title 24 of the California Code of Regulations established by the Energy Commission regarding energy conservation standards. The project applicant shall incorporate the following in building plans:

- Solar or low-emission water heaters shall be used with combined space/water heater units.
- Double-paned glass or window treatment for energy conservation shall be used in all exterior windows.
- Buildings shall be oriented north/south where feasible.

5.6 ADDITIONAL RECOMMENDED MEASURES

A. Additional dust suppression measures in the SCAQMD CEQA Air Quality Handbook are included as part of the project's mitigation.

- Revegetate disturbed areas as quickly as possible.
- All excavating and grading operations shall be suspended when wind speeds (as instantaneous gusts) exceed 25 mph.
- All streets shall be swept once per day if visible soil materials are carried to adjacent streets (recommend water sweepers with reclaimed water).
- Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash trucks and any equipment leaving the site each trip.
- All on-site roads shall be paved as soon as feasible, watered periodically, or chemically stabilized.
- The area disturbed by clearing, grading, earthmoving, or excavation operations shall be minimized at all times.

B. The Construction Contractor shall select the construction equipment used on site based on low-emission factors and high energy efficiency. The Construction Contractor shall ensure that construction grading plans include a statement that all construction equipment will be tuned and maintained in accordance with the manufacturer's specifications.

C. The Construction Contractor shall utilize electric or diesel-powered equipment in lieu of gasoline-powered engines where feasible.

D. The Construction Contractor shall ensure that construction grading plans include a statement that work crews will shut off equipment when not in use. During smog season (May through October), the overall length of the construction period will be extended, thereby decreasing the size of the area prepared each day, to minimize vehicles and equipment operating at the same time.

E. The Construction Contractor shall time the construction activities so as to not interfere with peak-hour traffic and minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flagperson shall be retained to maintain safety adjacent to existing roadways.

F. The Construction Contractor shall support and encourage ridesharing and transit incentives for the construction crew.

G. Compliance with the SCAQMD Rules and Regulations on the use of architectural coatings should be implemented. Emissions associated with architectural coatings would be reduced by complying with these rules and regulations, which include using pre-coated/natural-colored building materials, using water-based or low-VOC coating, and using coating transfer or spray equipment with high transfer efficiency.

6.0 REFERENCES

California Air Resources Board web site: http://www.arb.ca.gov.

Caltrans 1988. Air Quality Technical Analysis Notes.

Caltrans 1997. Transportation Project-Level Carbon Monoxide Protocol.

Linscott Law and Greenspan Engineers, March, 2004. Traffic Impact Study Long Beach Sports Park, Long Beach, California.

South Coast Air Quality Management District. CEQA Air Quality Handbook. 1993.

South Coast Air Quality Management District. Air Quality Management Plan. 1997.

Western Regional Climate Center web site, http://www.wrcc.dri.edu.

APPENDIX A

URBEMIS 2002 MODEL PRINTOUTS

LONG BEACH SPORTS COMPLEX

AIR QUALITY REGIONAL EMISSIONS

URBEMIS 2002 MODEL PRINTOUTS

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekend.urb
Project Name: Long Beach Sports Park Weekend
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.19	0.32	1.29	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	54.84	70.21	745.45	0.69	63.21

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	55.02	70.53	746.74	0.69	63.22

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekend.urb
Project Name: Long Beach Sports Park Weekend
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.02	0.31	0.12	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	59.26	101.97	722.75	0.61	63.21

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	59.29	102.28	722.87	0.61	63.22

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekend.urb
Project Name: Long Beach Sports Park Weekend
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.02	0.31	0.12	-	0.00
Wood Stoves	0.00	0.00	0.00	0.00	0.00
Fireplaces	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.02	0.31	0.12	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Sports park	56.92	97.94	694.31	0.58	60.70
Youth Golf Center	1.54	2.64	18.74	0.02	1.64
General office building	0.80	1.38	9.70	0.01	0.87
TOTAL EMISSIONS (lbs/day)	59.26	101.97	722.75	0.61	63.21

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2006 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Trip Rate	Size	Total Trips
Sports park	50.00 trips / acres	139.40	6,970.00
Youth Golf Center	17.10 trips / Holes	11.00	188.10
General office building	2.67 trips / 1000 sq. ft.	30.00	80.10

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.60	2.20	97.30	0.50
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.90	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.00	1.40	95.70	2.90
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	0.00	91.70	8.30

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Sports park				5.0	2.5	92.5
Youth Golf Center				5.0	2.5	92.5
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 70
The Diverted Trip % for Racquet club changed from 40 to 25
The Pass-By Trip % for Racquet club changed from 10 to 5

Changes made to the default values for Area

The wood stove option switch changed from on to off.
The fireplcase option switch changed from on to off.

Changes made to the default values for Operations

The operational emission year changed from 2004 to 2006.

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekend.urb
Project Name: Long Beach Sports Park Weekend
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.02	0.31	0.12	-	0.00
Wood Stoves - No summer emissions					
Fireplaces - No summer emissions					
Landscaping	0.16	0.01	1.17	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.19	0.32	1.29	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Sports park	52.08	67.44	715.78	0.66	60.70
Youth Golf Center	1.53	1.82	19.32	0.02	1.64
General office building	1.22	0.95	10.35	0.01	0.87
TOTAL EMISSIONS (lbs/day)	54.84	70.21	745.45	0.69	63.21

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2006 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Trip Rate	Size	Total Trips
Sports park	50.00 trips / acres	139.40	6,970.00
Youth Golf Center	17.10 trips / Holes	11.00	188.10
General office building	2.67 trips / 1000 sq. ft.	30.00	80.10

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.60	2.20	97.30	0.50
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.90	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.00	1.40	95.70	2.90
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	0.00	91.70	8.30

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Sports park				5.0	2.5	92.5
Youth Golf Center				5.0	2.5	92.5
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 70
The Diverted Trip % for Racquet club changed from 40 to 25
The Pass-By Trip % for Racquet club changed from 10 to 5

Changes made to the default values for Area

The wood stove option switch changed from on to off.
The fireplcase option switch changed from on to off.

Changes made to the default values for Operations

The operational emission year changed from 2004 to 2006.

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekday.urb
Project Name: Long Beach Sports Park
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.19	0.32	1.29	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	30.90	39.52	421.32	0.39	35.70

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	31.08	39.84	422.61	0.39	35.70

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekday.urb
Project Name: Long Beach Sports Park
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.02	0.31	0.12	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	33.25	57.43	406.40	0.34	35.70

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	33.28	57.73	406.53	0.34	35.70

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekday.urb
Project Name: Long Beach Sports Park
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.02	0.31	0.12	-	0.00
Wood Stoves	0.00	0.00	0.00	0.00	0.00
Fireplaces	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.02	0.31	0.12	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Sports park	26.05	44.83	317.77	0.27	27.78
Youth Golf Center	2.05	3.51	24.91	0.02	2.18
General office building	5.16	9.09	63.73	0.06	5.74
TOTAL EMISSIONS (lbs/day)	33.25	57.43	406.40	0.34	35.70

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2006 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Trip Rate	Size	Total Trips
Sports park	50.00 trips / acres	63.80	3,190.00
Youth Golf Center	22.73 trips / Holes	11.00	250.03
General office building	17.55 trips / 1000 sq. ft.	30.00	526.50

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.60	2.20	97.30	0.50
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.90	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.00	1.40	95.70	2.90
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	0.00	91.70	8.30

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Sports park				5.0	2.5	92.5
Youth Golf Center				5.0	2.5	92.5
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 70
The Diverted Trip % for Racquet club changed from 40 to 25
The Pass-By Trip % for Racquet club changed from 10 to 5

Changes made to the default values for Area

The wood stove option switch changed from on to off.
The fireplcase option switch changed from on to off.

Changes made to the default values for Operations

The operational emission year changed from 2004 to 2006.

URBEMIS 2002 For Windows 7.5.0

File Name: H:\RonaldB\Files\Projects\CLB231\Weekday.urb
Project Name: Long Beach Sports Park
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.02	0.31	0.12	-	0.00
Wood Stoves - No summer emissions					
Fireplaces - No summer emissions					
Landscaping	0.16	0.01	1.17	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.19	0.32	1.29	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Sports park	23.83	30.87	327.60	0.30	27.78
Youth Golf Center	1.97	2.42	25.68	0.02	2.18
General office building	5.09	6.23	68.05	0.06	5.74
TOTAL EMISSIONS (lbs/day)	30.90	39.52	421.32	0.39	35.70

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2006 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Trip Rate	Size	Total Trips
Sports park	50.00 trips / acres	63.80	3,190.00
Youth Golf Center	22.73 trips / Holes	11.00	250.03
General office building	17.55 trips / 1000 sq. ft.	30.00	526.50

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.60	2.20	97.30	0.50
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.90	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.00	1.40	95.70	2.90
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	0.00	91.70	8.30

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Sports park				5.0	2.5	92.5
Youth Golf Center				5.0	2.5	92.5
General office building				35.0	17.5	47.5

Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Racquet club changed from 50 to 70
The Diverted Trip % for Racquet club changed from 40 to 25
The Pass-By Trip % for Racquet club changed from 10 to 5

Changes made to the default values for Area

The wood stove option switch changed from on to off.
The fireplcase option switch changed from on to off.

Changes made to the default values for Operations

The operational emission year changed from 2004 to 2006.

LONG BEACH SPORTS COMPLEX

AIR QUALITY CO HOT SPOT ANALYSIS

CALINE4 MODEL PRINTOUTS

EXISTING BASELINE CONDITIONS

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Atlantic NBA	7	-150	7	0	AG	1489	7.5	.0	10.0
B. Atlantic NBD	7	0	7	150	AG	1602	7.5	.0	10.0
C. Atlantic NBL	5	-150	0	0	AG	33	7.5	.0	10.0
D. Atlantic SBA	-7	150	-7	0	AG	1071	7.5	.0	10.0
E. Atlantic SBD	-7	0	-7	-150	AG	1092	7.5	.0	10.0
F. Atlantic SBL	-5	150	0	0	AG	92	7.5	.0	10.0
G. Spring StEBA	-150	-2	0	-2	AG	589	7.5	.0	10.0
H. Spring StEBD	0	-2	150	-2	AG	784	7.5	.0	10.0
I. Spring StEBL	-150	-2	0	0	AG	197	7.5	.0	10.0
J. Spring StWBA	150	7	0	7	AG	422	7.5	.0	10.0
K. Spring StWBD	0	7	-150	7	AG	486	7.5	.0	10.0
L. Spring StWBL	150	5	0	0	AG	71	7.5	.0	10.0
M. Atlantic NBA	7	-750	7	-150	AG	1522	7.5	.0	10.0
N. Atlantic NBD	7	150	7	750	AG	1602	7.5	.0	10.0
O. Atlantic SBA	-7	750	-7	150	AG	1163	7.5	.0	10.0
P. Atlantic SBD	-7	-150	-7	-750	AG	1092	7.5	.0	10.0
Q. Spring StEBA	-750	-2	-150	-2	AG	786	7.5	.0	10.0
R. Spring StEBD	150	-2	750	-2	AG	784	7.5	.0	10.0
S. Spring StWBA	750	7	150	7	AG	493	7.5	.0	10.0
T. Spring StWBD	-150	7	-750	7	AG	486	7.5	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-8	1.8
2. NW	-14	14	1.8
3. SW	-14	-8	1.8
4. NE	14	14	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-8	1.8
16. EN blk	600	14	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	2.9	.0	1.4	.0	.2	.0	.0	.0	.4
2. NW	172.	2.5	.4	.0	.0	.2	.9	.0	.2	.0
3. SW	8.	2.6	.0	.4	.0	1.0	.0	.0	.3	.0
4. NE	188.	2.8	1.2	.3	.0	.0	.3	.0	.0	.2
5. ES mdblk	277.	1.7	.0	.1	.0	.0	.0	.0	.0	.8
6. WN mdblk	97.	1.5	.0	.0	.0	.0	.0	.0	.2	.1
7. WS mdblk	83.	1.7	.0	.1	.0	.0	.0	.0	.6	.0
8. EN mdblk	263.	1.5	.0	.0	.0	.0	.0	.0	.1	.3
9. SE mdblk	353.	2.5	1.4	.2	.0	.2	.2	.0	.0	.0
10. NW mdblk	172.	2.3	.2	.4	.0	1.1	.0	.0	.0	.0
11. SW mdblk	7.	2.2	.3	.2	.0	.1	1.1	.0	.0	.0
12. NE mdblk	187.	2.5	.1	1.5	.0	.2	.2	.0	.0	.0
13. ES blk	276.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	84.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	264.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	2.5	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
	*	CONC/LINK (PPM)											
1. SE	*	.0	.1	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.2	.0	.3	.0	.0	.2	.0	.0	.0	.0
3. SW	*	.0	.0	.2	.0	.0	.4	.2	.0	.0	.0	.0	.0
4. NE	*	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
5. ES mdblk	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	*	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.0
17. SE blk	*	.0	.0	.0	.0	1.6	.0	.0	.5	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.6	1.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.6	.0	.0	1.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	1.7	.5	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Atlantic NBA	7	-150	7	0	AG	828	7.5	.0	10.0
B. Atlantic NBD	7	0	7	150	AG	1035	7.5	.0	10.0
C. Atlantic NBL	5	-150	0	0	AG	130	7.5	.0	10.0
D. Atlantic SBA	-7	150	-7	0	AG	871	7.5	.0	10.0
E. Atlantic SBD	-7	0	-7	-150	AG	921	7.5	.0	10.0
F. Atlantic SBL	-5	150	0	0	AG	259	7.5	.0	10.0
G. Willow StEBA	-150	-12	0	-12	AG	1312	7.5	.0	13.5
H. Willow StEBD	0	-12	150	-12	AG	1620	7.5	.0	11.8
I. Willow StEBL	-150	-9	0	0	AG	206	7.5	.0	10.0
J. Willow StWBA	150	9	0	9	AG	1173	7.5	.0	13.5
K. Willow StWBD	0	9	-150	9	AG	1334	7.5	.0	11.8
L. Willow StWBL	150	5	0	0	AG	131	7.5	.0	10.0
M. Atlantic NBA	7	-750	7	-150	AG	958	7.5	.0	10.0
N. Atlantic NBD	7	150	7	750	AG	1035	7.5	.0	10.0
O. Atlantic SBA	-7	750	-7	150	AG	1130	7.5	.0	10.0
P. Atlantic SBD	-7	-150	-7	-750	AG	921	7.5	.0	10.0
Q. Willow StEBA	-750	-12	-150	-12	AG	1518	7.5	.0	13.5
R. Willow StEBD	150	-12	750	-12	AG	1620	7.5	.0	11.8
S. Willow StWBA	750	9	150	9	AG	1304	7.5	.0	13.5
T. Willow StWBD	-150	9	-750	9	AG	1334	7.5	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-20	1.8
2. NW	-14	16	1.8
3. SW	-14	-21	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-20	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-21	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-20	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-21	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	A	B	C	D	E	F	G	H
			CONC/LINK (PPM)							
1. SE	278.	2.9	.4	.0	.0	.0	.2	.0	1.1	.3
2. NW	98.	2.9	.0	.3	.0	.4	.0	.0	.0	.2
3. SW	82.	2.9	.2	.0	.0	.0	.4	.0	.2	1.2
4. NE	262.	2.9	.0	.5	.0	.2	.0	.0	.2	.0
5. ES mdblk	278.	2.6	.0	.0	.0	.0	.0	.0	.1	1.5
6. WN mdblk	98.	2.4	.0	.0	.0	.0	.0	.0	.2	.3
7. WS mdblk	82.	2.4	.0	.0	.0	.0	.0	.0	1.2	.1
8. EN mdblk	262.	2.3	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	353.	2.0	.8	.1	.1	.2	.2	.0	.0	.0
10. NW mdblk	172.	2.1	.1	.3	.0	.9	.0	.2	.0	.1
11. SW mdblk	7.	2.1	.2	.2	.0	.0	.9	.0	.0	.0
12. NE mdblk	187.	2.1	.0	1.0	.0	.2	.2	.1	.0	.0
13. ES blk	277.	2.6	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.4	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.4	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	262.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	2.1	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.4
2. NW	.0	1.0	.2	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0
4. NE	.0	.2	1.0	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	.0	.1	.2	.0	.0	.0	.0	.0	.1	.0	.0	.2
6. WN mdblk	.0	.1	1.3	.0	.0	.0	.0	.0	.0	.2	.1	.0
7. WS mdblk	.1	.2	.1	.0	.0	.0	.0	.0	.0	.1	.2	.0
8. EN mdblk	.0	1.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.1
9. SE mdblk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.5	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.4
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.4
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.4	.0
17. SE blk	.0	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.5	1.3	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.4	.0	.0	1.1	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.2	.5	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CaliforniNBA	2	-150	2	0	AG	292	5.5	.0	10.0
B. CaliforniNBD	2	0	2	150	AG	286	5.5	.0	10.0
C. CaliforniNBL	2	-150	0	0	AG	36	5.5	.0	10.0
D. CaliforniSBA	-2	150	-2	0	AG	156	5.5	.0	10.0
E. CaliforniSBD	-2	0	-2	-150	AG	229	5.5	.0	10.0
F. CaliforniSBL	-2	150	0	0	AG	120	5.5	.0	10.0
G. Spring StEBA	-150	-2	0	-2	AG	730	5.5	.0	10.0
H. Spring StEBD	0	-2	150	-2	AG	918	5.5	.0	10.0
I. Spring StEBL	-150	-2	0	0	AG	28	5.5	.0	10.0
J. Spring StWBA	150	2	0	2	AG	505	5.5	.0	10.0
K. Spring StWBD	0	2	-150	2	AG	505	5.5	.0	10.0
L. Spring StWBL	150	2	0	0	AG	71	5.5	.0	10.0
M. CaliforniNBA	2	-750	2	-150	AG	328	5.5	.0	10.0
N. CaliforniNBD	2	150	2	750	AG	286	5.5	.0	10.0
O. CaliforniSBA	-2	750	-2	150	AG	276	5.5	.0	10.0
P. CaliforniSBD	-2	-150	-2	-750	AG	229	5.5	.0	10.0
Q. Spring StEBA	-750	-2	-150	-2	AG	758	5.5	.0	10.0
R. Spring StEBD	150	-2	750	-2	AG	918	5.5	.0	10.0
S. Spring StWBA	750	2	150	2	AG	576	5.5	.0	10.0
T. Spring StWBD	-150	2	-750	2	AG	505	5.5	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-8	1.8
2. NW	-8	8	1.8
3. SW	-8	-8	1.8
4. NE	8	8	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	8	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	8	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-8	150	1.8
11. SW mdblk	-8	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	8	1.8
15. WS blk	-600	-8	1.8
16. EN blk	600	8	1.8
17. SE blk	8	-600	1.8
18. NW blk	-8	600	1.8
19. SW blk	-8	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	276.	1.2	.1	.0	.0	.0	.0	.0	.5	.0
2. NW	96.	1.3	.0	.0	.0	.0	.0	.0	.0	.4
3. SW	84.	1.4	.0	.0	.0	.0	.0	.0	.0	.6
4. NE	264.	1.2	.0	.1	.0	.0	.0	.0	.3	.0
5. ES mdblk	276.	1.3	.0	.0	.0	.0	.0	.0	.0	.7
6. WN mdblk	96.	1.1	.0	.0	.0	.0	.0	.0	.3	.1
7. WS mdblk	84.	1.2	.0	.0	.0	.0	.0	.0	.5	.0
8. EN mdblk	264.	1.2	.0	.0	.0	.0	.0	.0	.0	.4
9. SE mdblk	354.	.7	.2	.0	.0	.0	.1	.0	.0	.0
10. NW mdblk	174.	.7	.0	.1	.0	.1	.0	.1	.0	.0
11. SW mdblk	6.	.6	.1	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	186.	.6	.0	.2	.0	.0	.0	.0	.0	.0
13. ES blk	276.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	84.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	264.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	355.	.6	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.6	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	185.	.6	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
		CONC/LINK (PPM)											
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.4	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
3. SW	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
4. NE	*	.0	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0
5. ES mdblk	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	*	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.4	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0
17. SE blk	*	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CaliforniNBA	*	2	-150	2	0	*	AG	313	5.9	.0	10.0
B. CaliforniNBD	*	2	0	2	150	*	AG	298	5.9	.0	10.0
C. CaliforniNBL	*	2	-150	0	0	*	AG	85	5.9	.0	10.0
D. CaliforniSBA	*	-2	150	-2	0	*	AG	109	5.9	.0	10.0
E. CaliforniSBD	*	-2	0	-2	-150	*	AG	318	5.9	.0	10.0
F. CaliforniSBL	*	-2	150	0	0	*	AG	131	5.9	.0	10.0
G. Willow StEBA	*	-150	-9	0	-9	*	AG	1613	5.9	.0	13.5
H. Willow StEBD	*	0	-9	150	-9	*	AG	1750	5.9	.0	11.8
I. Willow StEBL	*	-150	-5	0	0	*	AG	39	5.9	.0	10.0
J. Willow StWBA	*	150	9	0	9	*	AG	1212	5.9	.0	13.5
K. Willow StWBD	*	0	9	-150	9	*	AG	1291	5.9	.0	11.8
L. Willow StWBL	*	150	5	0	0	*	AG	155	5.9	.0	10.0
M. CaliforniNBA	*	2	-750	2	-150	*	AG	398	5.9	.0	10.0
N. CaliforniNBD	*	2	150	2	750	*	AG	298	5.9	.0	10.0
O. CaliforniSBA	*	-2	750	-2	150	*	AG	240	5.9	.0	10.0
P. CaliforniSBD	*	-2	-150	-2	-750	*	AG	318	5.9	.0	10.0
Q. Willow StEBA	*	-750	-9	-150	-9	*	AG	1652	5.9	.0	13.5
R. Willow StEBD	*	150	-9	750	-9	*	AG	1750	5.9	.0	11.8
S. Willow StWBA	*	750	9	150	9	*	AG	1367	5.9	.0	13.5
T. Willow StWBD	*	-150	9	-750	9	*	AG	1291	5.9	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-16	1.8
2. NW	*	-8	16	1.8
3. SW	*	-8	-17	1.8
4. NE	*	8	17	1.8
5. ES mdblk	*	150	-16	1.8
6. WN mdblk	*	-150	16	1.8
7. WS mdblk	*	-150	-17	1.8
8. EN mdblk	*	150	17	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-8	150	1.8
11. SW mdblk	*	-8	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-16	1.8
14. WN blk	*	-600	16	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-8	600	1.8
19. SW blk	*	-8	-600	1.8
20. NE blk	*	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	2.1	.1	.0	.0	.0	.1	.0	1.1	.0
2. NW	98.	1.9	.0	.0	.0	.0	.0	.0	.0	.2
3. SW	82.	2.1	.1	.0	.0	.0	.1	.0	.0	1.1
4. NE	262.	1.8	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	278.	2.1	.0	.0	.0	.0	.0	.0	.1	1.3
6. WN mdblk	98.	1.9	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	83.	2.0	.0	.0	.0	.0	.0	.0	1.1	.1
8. EN mdblk	262.	1.8	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	354.	.9	.3	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	175.	.8	.0	.2	.0	.1	.0	.1	.0	.0
11. SW mdblk	6.	.9	.2	.0	.0	.0	.3	.0	.0	.0
12. NE mdblk	185.	.9	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.7	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.8	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	185.	.7	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
		CONC/LINK (PPM)											
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	*	.0	.9	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0
3. SW	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	*	.0	.0	.8	.0	.0	.0	.0	.0	.3	.0	.0	.2
5. ES mdblk	*	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	*	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	*	.0	.2	.1	.0	.0	.0	.0	.0	.0	.1	.2	.0
8. EN mdblk	*	.0	.9	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.4	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.1
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.4
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.1	.0
17. SE blk	*	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
		LINK COORDINATES (M)									
A. Orange AvNBA	*	5	-150	5	0	*	AG	813	5.9	.0	10.0
B. Orange AvNBD	*	5	0	5	150	*	AG	843	5.9	.0	10.0
C. Orange AvNBL	*	5	-150	0	0	*	AG	38	5.9	.0	10.0
D. Orange AvSBA	*	-5	150	-5	0	*	AG	543	5.9	.0	10.0
E. Orange AvSBD	*	-5	0	-5	-150	*	AG	771	5.9	.0	10.0
F. Orange AvSBL	*	-5	150	0	0	*	AG	76	5.9	.0	10.0
G. 32nd St.EBA	*	-150	-2	0	-2	*	AG	43	5.9	.0	10.0
H. 32nd St.EBD	*	0	-2	150	-2	*	AG	284	5.9	.0	10.0
I. 32nd St.EBL	*	-150	-2	0	0	*	AG	5	5.9	.0	10.0
J. 32nd St.WBA	*	150	5	0	5	*	AG	250	5.9	.0	10.0
K. 32nd St.WBD	*	0	5	-150	5	*	AG	69	5.9	.0	10.0
L. 32nd St.WBL	*	150	5	0	0	*	AG	199	5.9	.0	10.0
M. Orange AvNBA	*	5	-750	5	-150	*	AG	851	5.9	.0	10.0
N. Orange AvNBD	*	5	150	5	750	*	AG	843	5.9	.0	10.0
O. Orange AvSBA	*	-5	750	-5	150	*	AG	619	5.9	.0	10.0
P. Orange AvSBD	*	-5	-150	-5	-750	*	AG	771	5.9	.0	10.0
Q. 32nd St.EBAX	*	-750	-2	-150	-2	*	AG	48	5.9	.0	10.0
R. 32nd St.EBDX	*	150	-2	750	-2	*	AG	284	5.9	.0	10.0
S. 32nd St.WBAX	*	750	5	150	5	*	AG	449	5.9	.0	10.0
T. 32nd St.WBDX	*	-150	5	-750	5	*	AG	69	5.9	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	12	-8	1.8
2. NW	*	-12	12	1.8
3. SW	*	-12	-8	1.8
4. NE	*	12	12	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	12	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	12	1.8
9. SE mdblk	*	12	-150	1.8
10. NW mdblk	*	-12	150	1.8
11. SW mdblk	*	-12	-150	1.8
12. NE mdblk	*	12	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	12	1.8
15. WS blk	*	-600	-8	1.8
16. EN blk	*	600	12	1.8
17. SE blk	*	12	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	12	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.4	.0	.6	.0	.2	.0	.0	.0	.1
2. NW	173.	1.2	.2	.0	.0	.0	.6	.0	.0	.0
3. SW	173.	1.2	.2	.0	.0	.0	.6	.0	.0	.0
4. NE	187.	1.4	.6	.0	.0	.0	.2	.0	.0	.0
5. ES mdblk	279.	.7	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdblk	93.	.5	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	87.	.5	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	260.	.7	.0	.0	.0	.0	.0	.0	.0	.1
9. SE mdblk	353.	1.3	.7	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	173.	1.2	.1	.2	.0	.5	.0	.0	.0	.0
11. SW mdblk	7.	1.2	.2	.1	.0	.0	.6	.0	.0	.0
12. NE mdblk	186.	1.2	.0	.7	.0	.1	.1	.0	.0	.0
13. ES blk	276.	.7	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	93.	.3	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	87.	.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	264.	.8	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.2	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

CONC/LINK (PPM)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
3. SW	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0
5. ES mdblk	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.0
17. SE blk	.0	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.4	.0	.0	.7	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

```
     U=     .5 M/S              Z0= 100. CM            ALT=    23. (M)
   BRG= WORST CASE              VD=    .0 CM/S
  CLAS=      7 (G)              VS=    .0 CM/S
  MIXH= 1000. M                AMB=    .0 PPM
 SIGTH=    10. DEGREES        TEMP= 10.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	7	-150	7	0	AG	698	8.7	.0	10.0
B. Orange AvNBD	7	0	7	150	AG	839	8.7	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	131	8.7	.0	10.0
D. Orange AvSBA	-5	150	-5	0	AG	781	8.7	.0	13.5
E. Orange AvSBD	-5	0	-5	-150	AG	817	8.7	.0	10.0
F. Orange AvSBL	-2	150	0	0	AG	0	8.7	.0	10.0
G. I-405 SB EBA	-150	-5	0	-5	AG	238	8.7	.0	10.0
H. I-405 SB EBD	0	-5	150	-5	AG	0	8.7	.0	10.0
I. I-405 SB EBL	-150	-5	0	0	AG	141	8.7	.0	10.0
J. I-405 SB WBA	150	0	0	0	AG	0	8.7	.0	10.0
K. I-405 SB WBD	0	0	-150	0	AG	333	8.7	.0	10.0
L. I-405 SB WBL	150	2	0	0	AG	0	8.7	.0	10.0
M. Orange AvNBA	7	-750	7	-150	AG	829	8.7	.0	10.0
N. Orange AvNBD	7	150	7	750	AG	839	8.7	.0	10.0
O. Orange AvSBA	-5	750	-5	150	AG	781	8.7	.0	13.5
P. Orange AvSBD	-5	-150	-5	-750	AG	817	8.7	.0	10.0
Q. I-405 SB EBA	-750	-5	-150	-5	AG	379	8.7	.0	10.0
R. I-405 SB EBD	150	-5	750	-5	AG	0	8.7	.0	10.0
S. I-405 SB WBA	750	0	150	0	AG	0	8.7	.0	10.0
T. I-405 SB WBD	-150	0	-750	0	AG	333	8.7	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-12	1.8
2. NW	-14	7	1.8
3. SW	-12	-12	1.8
4. NE	14	7	1.8
5. ES mdblk	150	-12	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-12	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-12	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-12	1.8
16. EN blk	600	7	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.7	.1	.9	.0	.3	.0	.0	.0	.0
2. NW	172.	1.9	.2	.0	.0	.0	.8	.0	.1	.0
3. SW	7.	2.0	.0	.3	.0	.8	.1	.0	.1	.0
4. NE	353.	1.7	.0	1.0	.0	.3	.0	.0	.0	.0
5. ES mdblk	272.	.6	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	100.	1.0	.0	.0	.0	.0	.0	.0	.2	.0
7. WS mdblk	79.	1.0	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdblk	268.	.6	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	353.	1.8	.8	.1	.1	.2	.3	.0	.0	.0
10. NW mdblk	174.	1.7	.2	.2	.0	.8	.1	.0	.0	.0
11. SW mdblk	7.	1.8	.2	.2	.0	.1	1.0	.0	.0	.0
12. NE mdblk	187.	1.9	.0	1.0	.0	.3	.2	.0	.0	.0
13. ES blk	271.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	84.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	269.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.7	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	1.9	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
	CONC/LINK (PPM)											
1. SE	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
2. NW	.0	.0	.2	.0	.3	.0	.0	.2	.0	.0	.0	.0
3. SW	.0	.0	.1	.0	.0	.3	.2	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.5
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.3
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	.0	.0	.0	.0	1.1	.0	.0	.5	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.4	1.0	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.5	.0	.0	1.1	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.2	.5	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	7	-150	7	0	AG	604	5.9	.0	10.0
B. Orange AvNBD	7	0	7	150	AG	803	5.9	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	55	5.9	.0	10.0
D. Orange AvSBA	-7	150	-7	0	AG	671	5.9	.0	10.0
E. Orange AvSBD	-7	0	-7	-150	AG	589	5.9	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	141	5.9	.0	10.0
G. Spring StEBA	-150	-7	0	-7	AG	841	5.9	.0	10.0
H. Spring StEBD	0	-7	150	-7	AG	1013	5.9	.0	10.0
I. Spring StEBL	-150	-5	0	0	AG	125	5.9	.0	10.0
J. Spring StWBA	150	7	0	7	AG	684	5.9	.0	10.0
K. Spring StWBD	0	7	-150	7	AG	759	5.9	.0	10.0
L. Spring StWBL	150	5	0	0	AG	43	5.9	.0	10.0
M. Orange AvNBA	7	-750	7	-150	AG	659	5.9	.0	10.0
N. Orange AvNBD	7	150	7	750	AG	803	5.9	.0	10.0
O. Orange AvSBA	-7	750	-7	150	AG	812	5.9	.0	10.0
P. Orange AvSBD	-7	-150	-7	-750	AG	589	5.9	.0	10.0
Q. Spring StEBA	-750	-7	-150	-7	AG	966	5.9	.0	10.0
R. Spring StEBD	150	-7	750	-7	AG	1013	5.9	.0	10.0
S. Spring StWBA	750	7	150	7	AG	727	5.9	.0	10.0
T. Spring StWBD	-150	7	-750	7	AG	759	5.9	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-14	1.8
2. NW	-14	14	1.8
3. SW	-14	-14	1.8
4. NE	14	14	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	14	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.7	.0	.6	.0	.1	.0	.0	.0	.4
2. NW	98.	1.6	.0	.2	.0	.3	.0	.0	.0	.2
3. SW	83.	1.6	.1	.0	.0	.0	.2	.0	.1	.7
4. NE	263.	1.7	.0	.3	.0	.1	.0	.0	.2	.0
5. ES mdblk	277.	1.5	.0	.0	.0	.0	.0	.0	.0	.8
6. WN mdblk	97.	1.3	.0	.0	.0	.0	.0	.0	.2	.1
7. WS mdblk	83.	1.4	.0	.0	.0	.0	.0	.0	.7	.0
8. EN mdblk	263.	1.3	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	354.	1.2	.5	.0	.0	.1	.0	.0	.0	.0
10. NW mdblk	172.	1.3	.0	.2	.0	.6	.0	.1	.0	.0
11. SW mdblk	6.	1.2	.0	.1	.0	.0	.5	.0	.0	.0
12. NE mdblk	188.	1.3	.0	.7	.0	.1	.0	.0	.0	.0
13. ES blk	277.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	1.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
	*	CONC/LINK (PPM)											
1. SE	*	.0	.1	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
2. NW	*	.0	.5	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0
4. NE	*	.0	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdblk	*	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	*	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.7
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.8	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.6	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	2	-120	2	0	AG	546	5.9	.0	10.0
B. Orange AvNBD	2	0	2	150	AG	606	5.9	.0	10.0
C. Orange AvNBL	2	-120	0	0	AG	0	5.9	.0	10.0
D. Orange AvSBA	-5	120	-5	0	AG	565	5.9	.0	10.0
E. Orange AvSBD	-5	0	-5	-150	AG	573	5.9	.0	10.0
F. Orange AvSBL	-5	120	0	0	AG	37	5.9	.0	10.0
G. 29th St.EBA	-120	0	0	0	AG	0	5.9	.0	10.0
H. 29th St.EBD	0	0	150	0	AG	46	5.9	.0	10.0
I. 29th St.EBL	-120	-2	0	0	AG	0	5.9	.0	10.0
J. 29th St.WBA	120	0	0	0	AG	69	5.9	.0	10.0
K. 29th St.WBD	0	0	-150	0	AG	0	5.9	.0	10.0
L. 29th St.WBL	120	2	0	0	AG	8	5.9	.0	10.0
M. Orange AvNBA	2	-750	2	-150	AG	546	5.9	.0	10.0
N. Orange AvNBD	2	150	2	750	AG	606	5.9	.0	10.0
O. Orange AvSBA	-5	750	-5	150	AG	602	5.9	.0	10.0
P. Orange AvSBD	-5	-150	-5	-750	AG	573	5.9	.0	10.0
Q. 29th St.EBAX	-750	0	-150	0	AG	0	5.9	.0	10.0
R. 29th St.EBDX	150	0	750	0	AG	46	5.9	.0	10.0
S. 29th St.WBAX	750	0	150	0	AG	77	5.9	.0	10.0
T. 29th St.WBDX	-150	0	-750	0	AG	0	5.9	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-7	1.8
2. NW	-12	7	1.8
3. SW	-12	-7	1.8
4. NE	8	7	1.8
5. ES mdblk	150	-7	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-7	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-7	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-7	1.8
16. EN blk	600	7	1.8
17. SE blk	8	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.0	.0	.5	.0	.2	.0	.0	.0	.0
2. NW	7.	.9	.0	.2	.0	.4	.0	.0	.0	.0
3. SW	7.	.9	.0	.2	.0	.4	.0	.0	.0	.0
4. NE	353.	.9	.0	.5	.0	.2	.0	.0	.0	.0
5. ES mdblk	277.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	91.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	21.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	263.	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	187.	.9	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	7.	.9	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	6.	.9	.2	.0	.0	.0	.5	.0	.0	.0
12. NE mdblk	187.	1.0	.0	.5	.0	.2	.0	.0	.0	.0
13. ES blk	275.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	90.	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	89.	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
3. SW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
17. SE blk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.6	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	*	2	-150	2	0	*	AG	474	5.9	.0	10.0
B. Orange AvNBD	*	2	0	2	150	*	AG	527	5.9	.0	10.0
C. Orange AvNBL	*	2	-150	0	0	*	AG	0	5.9	.0	10.0
D. Orange AvSBA	*	-5	150	-5	0	*	AG	516	5.9	.0	10.0
E. Orange AvSBD	*	-5	0	-5	-150	*	AG	534	5.9	.0	10.0
F. Orange AvSBL	*	-5	150	0	0	*	AG	48	5.9	.0	10.0
G. 28th St.EBA	*	-150	-2	0	-2	*	AG	0	5.9	.0	10.0
H. 28th St.EBD	*	0	-2	150	-2	*	AG	49	5.9	.0	10.0
I. 28th St.EBL	*	-150	-2	0	0	*	AG	0	5.9	.0	10.0
J. 28th St.WBA	*	150	0	0	0	*	AG	54	5.9	.0	10.0
K. 28th St.WBD	*	0	0	-150	0	*	AG	0	5.9	.0	10.0
L. 28th St.WBL	*	150	2	0	0	*	AG	18	5.9	.0	10.0
M. Orange AvNBA	*	2	-750	2	-150	*	AG	474	5.9	.0	10.0
N. Orange AvNBD	*	2	150	2	750	*	AG	527	5.9	.0	10.0
O. Orange AvSBA	*	-5	750	-5	150	*	AG	564	5.9	.0	10.0
P. Orange AvSBD	*	-5	-150	-5	-750	*	AG	534	5.9	.0	10.0
Q. 28th St.EBAX	*	-750	-2	-150	-2	*	AG	0	5.9	.0	10.0
R. 28th St.EBDX	*	150	-2	750	-2	*	AG	49	5.9	.0	10.0
S. 28th St.WBAX	*	750	0	150	0	*	AG	72	5.9	.0	10.0
T. 28th St.WBDX	*	-150	0	-750	0	*	AG	0	5.9	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-8	1.8
2. NW	-12	7	1.8
3. SW	-12	-8	1.8
4. NE	8	7	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-8	1.8
16. EN blk	600	7	1.8
17. SE blk	8	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	354.	.9	.0	.4	.0	.2	.0	.0	.0	.0
2. NW	7.	.9	.0	.2	.0	.4	.0	.0	.0	.0
3. SW	6.	.9	.0	.2	.0	.4	.0	.0	.0	.0
4. NE	353.	.9	.0	.4	.0	.2	.0	.0	.0	.0
5. ES mdblk	279.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	91.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	88.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	262.	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	354.	.9	.4	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	173.	.9	.0	.2	.0	.4	.0	.0	.0	.0
11. SW mdblk	6.	.9	.2	.0	.0	.0	.4	.0	.0	.0
12. NE mdblk	186.	.9	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	275.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	90.	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	89.	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.9	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.9	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
3. SW	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	7	-150	7	0	AG	377	6.6	.0	10.0
B. Orange AvNBD	7	0	7	150	AG	441	6.6	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	66	6.6	.0	10.0
D. Orange AvSBA	-7	150	-7	0	AG	478	6.6	.0	10.0
E. Orange AvSBD	-7	0	-7	-150	AG	516	6.6	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	58	6.6	.0	10.0
G. Willow StEBA	-150	-9	0	-9	AG	1627	6.6	.0	13.5
H. Willow StEBD	0	-9	150	-9	AG	1683	6.6	.0	11.8
I. Willow StEBL	-150	-5	0	0	AG	80	6.6	.0	10.0
J. Willow StWBA	150	9	0	9	AG	1227	6.6	.0	13.5
K. Willow StWBD	0	9	-150	9	AG	1347	6.6	.0	11.8
L. Willow StWBL	150	5	0	0	AG	74	6.6	.0	10.0
M. Orange AvNBA	7	-750	7	-150	AG	443	6.6	.0	10.0
N. Orange AvNBD	7	150	7	750	AG	441	6.6	.0	10.0
O. Orange AvSBA	-7	750	-7	150	AG	536	6.6	.0	10.0
P. Orange AvSBD	-7	-150	-7	-750	AG	516	6.6	.0	10.0
Q. Willow StEBA	-750	-9	-150	-9	AG	1707	6.6	.0	13.5
R. Willow StEBD	150	-9	750	-9	AG	1683	6.6	.0	11.8
S. Willow StWBA	750	9	150	9	AG	1301	6.6	.0	13.5
T. Willow StWBD	-150	9	-750	9	AG	1347	6.6	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-16	1.8
2. NW	-14	16	1.8
3. SW	-14	-17	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-16	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-17	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-16	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-17	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.5	.2	.0	.0	.0	.1	.0	1.1	.3
2. NW	98.	2.3	.0	.1	.0	.2	.0	.0	.0	.3
3. SW	82.	2.4	.0	.0	.0	.0	.2	.0	.2	1.1
4. NE	262.	2.2	.0	.2	.0	.1	.0	.0	.3	.0
5. ES mdblk	277.	2.3	.0	.0	.0	.0	.0	.0	.2	1.3
6. WN mdblk	98.	2.1	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	82.	2.2	.0	.0	.0	.0	.0	.0	1.3	.1
8. EN mdblk	262.	2.0	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	353.	1.1	.4	.0	.0	.0	.1	.0	.0	.0
10. NW mdblk	173.	1.1	.0	.0	.0	.5	.0	.0	.0	.0
11. SW mdblk	7.	1.1	.0	.0	.0	.0	.5	.0	.0	.0
12. NE mdblk	187.	1.1	.0	.4	.0	.1	.0	.0	.0	.0
13. ES blk	277.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
	*	CONC/LINK (PPM)											
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	*	.0	.9	.2	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	*	.0	.2	.9	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	*	.0	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.2
6. WN mdblk	*	.0	.1	1.1	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	*	.0	.2	.2	.0	.0	.0	.0	.0	.0	.1	.1	.0
8. EN mdblk	*	.0	1.0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.3
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.4
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.2	.0
17. SE blk	*	.0	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.6	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Walnut AvNBA	*	7	-150	7	0	*	AG	363	5.9	.0	10.0
B. Walnut AvNBD	*	7	0	7	150	*	AG	379	5.9	.0	10.0
C. Walnut AvNBL	*	5	-150	0	0	*	AG	107	5.9	.0	10.0
D. Walnut AvSBA	*	-5	150	-5	0	*	AG	187	5.9	.0	10.0
E. Walnut AvSBD	*	-5	0	-5	-150	*	AG	254	5.9	.0	10.0
F. Walnut AvSBL	*	-5	150	0	0	*	AG	58	5.9	.0	10.0
G. Spring StEBA	*	-150	-7	0	-7	*	AG	855	5.9	.0	10.0
H. Spring StEBD	*	0	-7	150	-7	*	AG	958	5.9	.0	10.0
I. Spring StEBL	*	-150	-5	0	0	*	AG	60	5.9	.0	10.0
J. Spring StWBA	*	150	7	0	7	*	AG	508	5.9	.0	10.0
K. Spring StWBD	*	0	7	-150	7	*	AG	595	5.9	.0	10.0
L. Spring StWBL	*	150	5	0	0	*	AG	48	5.9	.0	10.0
M. Walnut AvNBA	*	7	-750	7	-150	*	AG	470	5.9	.0	10.0
N. Walnut AvNBD	*	7	150	7	750	*	AG	379	5.9	.0	10.0
O. Walnut AvSBA	*	-5	750	-5	150	*	AG	245	5.9	.0	10.0
P. Walnut AvSBD	*	-5	-150	-5	-750	*	AG	254	5.9	.0	10.0
Q. Spring StEBA	*	-750	-7	-150	-7	*	AG	915	5.9	.0	10.0
R. Spring StEBD	*	150	-7	750	-7	*	AG	958	5.9	.0	10.0
S. Spring StWBA	*	750	7	150	7	*	AG	556	5.9	.0	10.0
T. Spring StWBD	*	-150	7	-750	7	*	AG	595	5.9	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-14	1.8
2. NW	-12	14	1.8
3. SW	-12	-14	1.8
4. NE	14	14	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	14	1.8
17. SE blk	14	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	1.4	.1	.0	.0	.0	.0	.0	.6	.1
2. NW	97.	1.2	.0	.0	.0	.0	.0	.0	.0	.2
3. SW	83.	1.4	.0	.0	.0	.0	.0	.0	.0	.7
4. NE	263.	1.2	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	277.	1.3	.0	.0	.0	.0	.0	.0	.0	.8
6. WN mdblk	97.	1.1	.0	.0	.0	.0	.0	.0	.2	.1
7. WS mdblk	83.	1.2	.0	.0	.0	.0	.0	.0	.7	.0
8. EN mdblk	263.	1.1	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	353.	.8	.3	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	174.	.7	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	7.	.7	.0	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	186.	.7	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	276.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.8	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	.6	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.7	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
	*						CONC/LINK (PPM)						
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1
2. NW	*	.0	.4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0
4. NE	*	.0	.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.0
5. ES mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.2	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.2
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.5	.0
17. SE blk	*	.0	.0	.0	.0	.5	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: Existing-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Walnut AvNBA	7	-150	7	0	AG	785	5.9	.0	10.0
B. Walnut AvNBD	7	0	7	150	AG	404	5.9	.0	10.0
C. Walnut AvNBL	5	-150	0	0	AG	73	5.9	.0	10.0
D. Walnut AvSBA	-7	150	-7	0	AG	222	5.9	.0	10.0
E. Walnut AvSBD	-7	0	-7	-150	AG	360	5.9	.0	10.0
F. Walnut AvSBL	-5	150	0	0	AG	83	5.9	.0	10.0
G. Willow StEBA	-150	-9	0	-9	AG	1632	5.9	.0	13.5
H. Willow StEBD	0	-9	150	-9	AG	2154	5.9	.0	11.8
I. Willow StEBL	-150	-5	0	0	AG	65	5.9	.0	10.0
J. Willow StWBA	150	9	0	9	AG	1299	5.9	.0	13.5
K. Willow StWBD	0	9	-150	9	AG	1359	5.9	.0	11.8
L. Willow StWBL	150	5	0	0	AG	118	5.9	.0	10.0
M. Walnut AvNBA	7	-750	7	-150	AG	858	5.9	.0	10.0
N. Walnut AvNBD	7	150	7	750	AG	404	5.9	.0	10.0
O. Walnut AvSBA	-7	750	-7	150	AG	305	5.9	.0	10.0
P. Walnut AvSBD	-7	-150	-7	-750	AG	360	5.9	.0	10.0
Q. Willow StEBA	-750	-9	-150	-9	AG	1697	5.9	.0	13.5
R. Willow StEBD	150	-9	750	-9	AG	2154	5.9	.0	11.8
S. Willow StWBA	750	9	150	9	AG	1417	5.9	.0	13.5
T. Willow StWBD	-150	9	-750	9	AG	1359	5.9	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: Existing-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-16	1.8
2. NW	-14	16	1.8
3. SW	-14	-17	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-16	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-17	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-16	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-17	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: Existing-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.4	.3	.0	.0	.0	.0	.0	1.0	.3
2. NW	98.	2.1	.0	.0	.0	.0	.0	.0	.0	.3
3. SW	82.	2.4	.2	.0	.0	.0	.1	.0	.2	1.2
4. NE	262.	2.0	.0	.2	.0	.0	.0	.0	.2	.0
5. ES mdblk	278.	2.4	.0	.0	.0	.0	.0	.0	.1	1.5
6. WN mdblk	98.	2.0	.0	.0	.0	.0	.0	.0	.2	.3
7. WS mdblk	83.	2.1	.0	.0	.0	.0	.0	.0	1.1	.2
8. EN mdblk	262.	1.9	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	352.	1.2	.7	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	174.	.9	.1	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	8.	1.0	.2	.0	.0	.0	.3	.0	.0	.1
12. NE mdblk	185.	1.0	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	2.4	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	262.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.8	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.8	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: Existing-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	.0	.8	.2	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	.0	.2	.8	.0	.0	.0	.0	.0	.3	.0	.0	.2
5. ES mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	.0	.2	.1	.0	.0	.0	.0	.0	.0	.1	.2	.0
8. EN mdblk	.0	1.0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.4	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.2
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.4
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.2	.0
17. SE blk	.0	.0	.0	.0	.8	.0	.0	.2	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0

APPENDIX B

CALINE4 MODEL PRINTOUTS

LONG BEACH SPORTS COMPLEX

AIR QUALITY CO HOT SPOT ANALYSIS

CALINE4 MODEL PRINTOUTS

OPENING YEAR (YEAR 2006) BASELINE

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Atlantic NBA	7	-150	7	0	AG	1759	7.4	.0	10.0
B. Atlantic NBD	7	0	7	150	AG	1914	7.4	.0	10.0
C. Atlantic NBL	5	-150	0	0	AG	37	7.4	.0	10.0
D. Atlantic SBA	-7	150	-7	0	AG	1269	7.4	.0	10.0
E. Atlantic SBD	-7	0	-7	-150	AG	1314	7.4	.0	10.0
F. Atlantic SBL	-5	150	0	0	AG	108	7.4	.0	10.0
G. Spring StEBA	-150	-7	0	-7	AG	760	7.4	.0	10.0
H. Spring StEBD	0	-7	150	-7	AG	992	7.4	.0	10.0
I. Spring StEBL	-150	-5	0	0	AG	227	7.4	.0	10.0
J. Spring StWBA	150	9	0	9	AG	617	7.4	.0	13.5
K. Spring StWBD	0	9	-150	9	AG	661	7.4	.0	10.0
L. Spring StWBL	150	5	0	0	AG	104	7.4	.0	10.0
M. Atlantic NBA	7	-750	7	-150	AG	1796	7.4	.0	10.0
N. Atlantic NBD	7	150	7	750	AG	1914	7.4	.0	10.0
O. Atlantic SBA	-7	750	-7	150	AG	1377	7.4	.0	10.0
P. Atlantic SBD	-7	-150	-7	-750	AG	1314	7.4	.0	10.0
Q. Spring StEBA	-750	-7	-150	-7	AG	987	7.4	.0	10.0
R. Spring StEBD	150	-7	750	-7	AG	992	7.4	.0	10.0
S. Spring StWBA	750	9	150	9	AG	721	7.4	.0	13.5
T. Spring StWBD	-150	9	-750	9	AG	661	7.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006nP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-14	1.8
2. NW	-14	15	1.8
3. SW	-14	-14	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	15	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	15	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	352.	3.4	.3	1.4	.0	.3	.0	.0	.0	.5
2. NW	172.	2.9	.4	.0	.0	.3	1.0	.0	.2	.0
3. SW	8.	3.0	.0	.4	.0	1.0	.2	.0	.4	.0
4. NE	188.	3.1	1.2	.5	.0	.0	.4	.0	.0	.2
5. ES mdblk	277.	1.9	.0	.1	.0	.0	.0	.0	.0	1.0
6. WN mdblk	97.	1.7	.0	.0	.0	.0	.0	.0	.1	.2
7. WS mdblk	83.	1.9	.0	.1	.0	.0	.0	.0	.8	.1
8. EN mdblk	262.	1.6	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	353.	2.8	1.6	.2	.0	.2	.3	.0	.0	.0
10. NW mdblk	172.	2.6	.2	.4	.0	1.3	.1	.1	.0	.0
11. SW mdblk	7.	2.5	.3	.3	.0	.1	1.3	.0	.0	.0
12. NE mdblk	188.	2.9	.1	1.8	.0	.3	.2	.0	.0	.0
13. ES blk	277.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	2.8	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	2.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	2.9	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
	CONC/LINK (PPM)											
1. SE	.0	.2	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
2. NW	.0	.0	.3	.0	.4	.0	.0	.2	.0	.0	.0	.0
3. SW	.0	.0	.2	.0	.0	.4	.2	.0	.0	.0	.0	.0
4. NE	.0	.3	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
5. ES mdblk	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	.0	.0	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdblk	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.3	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.8
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.3
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0
17. SE blk	.0	.0	.0	.0	1.8	.0	.0	.6	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.7	1.5	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.7	.0	.0	1.4	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.9	.6	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Atlantic NBA	7	-150	7	0	AG	999	7.4	.0	10.0
B. Atlantic NBD	7	0	7	150	AG	1259	7.4	.0	10.0
C. Atlantic NBL	5	-150	0	0	AG	162	7.4	.0	10.0
D. Atlantic SBA	-7	150	-7	0	AG	1069	7.4	.0	10.0
E. Atlantic SBD	-7	0	-7	-150	AG	1148	7.4	.0	10.0
F. Atlantic SBL	-5	150	0	0	AG	291	7.4	.0	10.0
G. Willow StEBA	-150	-12	0	-12	AG	1512	7.4	.0	13.5
H. Willow StEBD	0	-12	150	-12	AG	1835	7.4	.0	11.8
I. Willow StEBL	-150	-9	0	0	AG	264	7.4	.0	10.0
J. Willow StWBA	150	9	0	9	AG	1318	7.4	.0	13.5
K. Willow StWBD	0	9	-150	9	AG	1523	7.4	.0	11.8
L. Willow StWBL	150	5	0	0	AG	150	7.4	.0	10.0
M. Atlantic NBA	7	-750	7	-150	AG	1161	7.4	.0	10.0
N. Atlantic NBD	7	150	7	750	AG	1259	7.4	.0	10.0
O. Atlantic SBA	-7	750	-7	150	AG	1360	7.4	.0	10.0
P. Atlantic SBD	-7	-150	-7	-750	AG	1148	7.4	.0	10.0
Q. Willow StEBA	-750	-12	-150	-12	AG	1776	7.4	.0	13.5
R. Willow StEBD	150	-12	750	-12	AG	1835	7.4	.0	11.8
S. Willow StWBA	750	9	150	9	AG	1468	7.4	.0	13.5
T. Willow StWBD	-150	9	-750	9	AG	1523	7.4	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006nP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-20	1.8
2. NW	-14	16	1.8
3. SW	-14	-21	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-20	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-21	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-20	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-21	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	3.3	.5	.0	.0	.0	.3	.0	1.2	.3
2. NW	98.	3.2	.0	.3	.0	.5	.0	.1	.0	.2
3. SW	82.	3.2	.3	.0	.0	.0	.5	.0	.2	1.3
4. NE	261.	3.2	.0	.6	.0	.3	.0	.0	.2	.0
5. ES mdblk	278.	2.9	.0	.0	.0	.0	.0	.0	.1	1.7
6. WN mdblk	98.	2.7	.0	.0	.0	.0	.0	.0	.2	.3
7. WS mdblk	82.	2.6	.0	.0	.0	.0	.0	.0	1.4	.2
8. EN mdblk	262.	2.5	.0	.0	.0	.0	.0	.0	.3	.2
9. SE mdblk	353.	2.4	1.0	.1	.1	.2	.2	.0	.0	.0
10. NW mdblk	172.	2.5	.2	.3	.0	1.1	.0	.2	.0	.1
11. SW mdblk	7.	2.4	.2	.2	.0	.1	1.1	.0	.0	.1
12. NE mdblk	188.	2.5	.0	1.2	.0	.3	.2	.1	.1	.0
13. ES blk	277.	2.8	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.6	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	82.	2.7	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	262.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	2.4	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	2.4	.0	.0	.0	.0	.0	.0	.0	.0

JOB: LB Sports Complex
RUN: 2006nP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.1	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.4
2. NW	.0	1.0	.3	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0
4. NE	.1	.2	1.1	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	.0	.2	.3	.0	.0	.0	.0	.0	.1	.0	.0	.2
6. WN mdblk	.0	.1	1.4	.0	.0	.0	.0	.0	.0	.2	.1	.0
7. WS mdblk	.1	.2	.2	.0	.0	.0	.0	.0	.0	.1	.2	.0
8. EN mdblk	.0	1.2	.1	.0	.0	.0	.0	.0	.2	.0	.0	.1
9. SE mdblk	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.5	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.6
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.5
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.5	.0
17. SE blk	.0	.0	.0	.0	1.3	.0	.0	.5	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.5	1.5	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.5	.0	.0	1.3	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.4	.6	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CaliforniNBA	*	2	-150	2	0	*	AG	348	5.1	.0	10.0
B. CaliforniNBD	*	2	0	2	150	*	AG	369	5.1	.0	10.0
C. CaliforniNBL	*	2	-150	0	0	*	AG	45	5.1	.0	10.0
D. CaliforniSBA	*	-2	150	-2	0	*	AG	198	5.1	.0	10.0
E. CaliforniSBD	*	-2	0	-2	-150	*	AG	281	5.1	.0	10.0
F. CaliforniSBL	*	-2	150	0	0	*	AG	155	5.1	.0	10.0
G. Spring StEBA	*	-150	-7	0	-7	*	AG	959	5.1	.0	10.0
H. Spring StEBD	*	0	-7	150	-7	*	AG	1191	5.1	.0	10.0
I. Spring StEBL	*	-150	-5	0	0	*	AG	32	5.1	.0	10.0
J. Spring StWBA	*	150	7	0	7	*	AG	772	5.1	.0	10.0
K. Spring StWBD	*	0	7	-150	7	*	AG	748	5.1	.0	10.0
L. Spring StWBL	*	150	5	0	0	*	AG	80	5.1	.0	10.0
M. CaliforniNBA	*	2	-750	2	-150	*	AG	393	5.1	.0	10.0
N. CaliforniNBD	*	2	150	2	750	*	AG	369	5.1	.0	10.0
O. CaliforniSBA	*	-2	750	-2	150	*	AG	353	5.1	.0	10.0
P. CaliforniSBD	*	-2	-150	-2	-750	*	AG	281	5.1	.0	10.0
Q. Spring StEBA	*	-750	-7	-150	-7	*	AG	991	5.1	.0	10.0
R. Spring StEBD	*	150	-7	750	-7	*	AG	1191	5.1	.0	10.0
S. Spring StWBA	*	750	7	150	7	*	AG	852	5.1	.0	10.0
T. Spring StWBD	*	-150	7	-750	7	*	AG	748	5.1	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006nP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-14	1.8
2. NW	-8	14	1.8
3. SW	-8	-14	1.8
4. NE	8	14	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-8	150	1.8
11. SW mdblk	-8	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	14	1.8
17. SE blk	8	-600	1.8
18. NW blk	-8	600	1.8
19. SW blk	-8	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006nP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	1.3	.1	.0	.0	.0	.0	.0	.6	.0
2. NW	97.	1.3	.0	.1	.0	.0	.0	.0	.0	.2
3. SW	83.	1.4	.0	.0	.0	.0	.0	.0	.0	.7
4. NE	263.	1.2	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	277.	1.3	.0	.0	.0	.0	.0	.0	.0	.8
6. WN mdblk	97.	1.1	.0	.0	.0	.0	.0	.0	.1	.1
7. WS mdblk	83.	1.2	.0	.0	.0	.0	.0	.0	.7	.0
8. EN mdblk	262.	1.2	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	354.	.7	.3	.0	.0	.0	.1	.0	.0	.0
10. NW mdblk	174.	.7	.0	.2	.0	.2	.0	.1	.0	.0
11. SW mdblk	6.	.7	.2	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	186.	.7	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.7	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.7	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.7	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2
2. NW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
3. SW	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0
4. NE	.0	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.0
5. ES mdblk	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.3	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.2
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0
17. SE blk	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CaliforniNBA	2	-150	2	0	AG	365	5.6	.0	10.0
B. CaliforniNBD	2	0	2	150	AG	353	5.6	.0	10.0
C. CaliforniNBL	2	-150	0	0	AG	93	5.6	.0	10.0
D. CaliforniSBA	-2	150	-2	0	AG	150	5.6	.0	10.0
E. CaliforniSBD	-2	0	-2	-150	AG	372	5.6	.0	10.0
F. CaliforniSBL	-2	150	0	0	AG	145	5.6	.0	10.0
G. Willow StEBA	-150	-9	0	-9	AG	1826	5.6	.0	13.5
H. Willow StEBD	0	-9	150	-9	AG	1976	5.6	.0	11.8
I. Willow StEBL	-150	-5	0	0	AG	44	5.6	.0	10.0
J. Willow StWBA	150	9	0	9	AG	1366	5.6	.0	13.5
K. Willow StWBD	0	9	-150	9	AG	1455	5.6	.0	11.8
L. Willow StWBL	150	5	0	0	AG	167	5.6	.0	10.0
M. CaliforniNBA	2	-750	2	-150	AG	458	5.6	.0	10.0
N. CaliforniNBD	2	150	2	750	AG	353	5.6	.0	10.0
O. CaliforniSBA	-2	750	-2	150	AG	295	5.6	.0	10.0
P. CaliforniSBD	-2	-150	-2	-750	AG	372	5.6	.0	10.0
Q. Willow StEBA	-750	-9	-150	-9	AG	1870	5.6	.0	13.5
R. Willow StEBD	150	-9	750	-9	AG	1976	5.6	.0	11.8
S. Willow StWBA	750	9	150	9	AG	1533	5.6	.0	13.5
T. Willow StWBD	-150	9	-750	9	AG	1455	5.6	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006nP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-16	1.8
2. NW	-8	16	1.8
3. SW	-8	-17	1.8
4. NE	8	17	1.8
5. ES mdblk	150	-16	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-17	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-8	150	1.8
11. SW mdblk	-8	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-16	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-17	1.8
16. EN blk	600	17	1.8
17. SE blk	8	-600	1.8
18. NW blk	-8	600	1.8
19. SW blk	-8	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	2.3	.1	.0	.0	.0	.1	.0	1.2	.0
2. NW	98.	2.0	.0	.1	.0	.0	.0	.0	.0	.2
3. SW	82.	2.2	.1	.0	.0	.0	.1	.0	.0	1.1
4. NE	262.	1.9	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	278.	2.2	.0	.0	.0	.0	.0	.0	.1	1.3
6. WN mdblk	98.	1.9	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	82.	2.1	.0	.0	.0	.0	.0	.0	1.2	.1
8. EN mdblk	262.	1.9	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	354.	1.0	.3	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	174.	.9	.0	.2	.0	.1	.0	.1	.0	.0
11. SW mdblk	6.	1.0	.2	.0	.0	.0	.3	.0	.0	.0
12. NE mdblk	185.	.9	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.8	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.8	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	.0	.9	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	.0	.0	.9	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdblk	.0	.9	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.2
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.4
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.2	.0
17. SE blk	.0	.0	.0	.0	.4	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	5	-150	5	0	AG	935	6.4	.0	10.0
B. Orange AvNBD	5	0	5	150	AG	961	6.4	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	45	6.4	.0	10.0
D. Orange AvSBA	-5	150	-5	0	AG	627	6.4	.0	10.0
E. Orange AvSBD	-5	0	-5	-150	AG	879	6.4	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	82	6.4	.0	10.0
G. 32nd St.EBA	-150	-2	0	-2	AG	64	6.4	.0	10.0
H. 32nd St.EBD	0	-2	150	-2	AG	326	6.4	.0	10.0
I. 32nd St.EBL	-150	-2	0	0	AG	5	6.4	.0	10.0
J. 32nd St.WBA	150	5	0	5	AG	317	6.4	.0	10.0
K. 32nd St.WBD	0	5	-150	5	AG	125	6.4	.0	10.0
L. 32nd St.WBL	150	5	0	0	AG	216	6.4	.0	10.0
M. Orange AvNBA	5	-750	5	-150	AG	980	6.4	.0	10.0
N. Orange AvNBD	5	150	5	750	AG	961	6.4	.0	10.0
O. Orange AvSBA	-5	750	-5	150	AG	709	6.4	.0	10.0
P. Orange AvSBD	-5	-150	-5	-750	AG	879	6.4	.0	10.0
Q. 32nd St.EBAX	-750	-2	-150	-2	AG	69	6.4	.0	10.0
R. 32nd St.EBDX	150	-2	750	-2	AG	326	6.4	.0	10.0
S. 32nd St.WBAX	750	5	150	5	AG	533	6.4	.0	10.0
T. 32nd St.WBDX	-150	5	-750	5	AG	125	6.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006nP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

	COORDINATES (M)		
RECEPTOR	X	Y	Z
1. SE	12	-8	1.8
2. NW	-12	12	1.8
3. SW	-12	-8	1.8
4. NE	12	12	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	12	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	12	1.8
9. SE mdblk	12	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	12	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	12	1.8
15. WS blk	-600	-8	1.8
16. EN blk	600	12	1.8
17. SE blk	12	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	12	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.7	.0	.8	.0	.2	.0	.0	.0	.1
2. NW	173.	1.5	.3	.0	.0	.0	.7	.0	.0	.0
3. SW	173.	1.4	.2	.0	.0	.0	.8	.0	.0	.0
4. NE	187.	1.8	.7	.1	.0	.0	.3	.0	.0	.0
5. ES mdblk	279.	.8	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdblk	93.	.6	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	87.	.6	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	260.	.9	.0	.0	.0	.0	.0	.0	.0	.2
9. SE mdblk	353.	1.5	.8	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	173.	1.4	.1	.3	.0	.6	.0	.0	.0	.0
11. SW mdblk	7.	1.5	.2	.1	.0	.0	.8	.0	.0	.0
12. NE mdblk	186.	1.5	.1	.8	.0	.2	.1	.0	.0	.0
13. ES blk	276.	.8	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	95.	.4	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	85.	.4	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	264.	.9	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.5	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.5	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.5	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
3. SW	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
4. NE	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0
5. ES mdblk	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0
17. SE blk	.0	.0	.0	.0	1.0	.0	.0	.4	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.4	.0	.0	.9	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	*	7	-150	7	0	*	AG	812	7.4	.0	10.0
B. Orange AvNBD	*	7	0	7	150	*	AG	968	7.4	.0	10.0
C. Orange AvNBL	*	5	-150	0	0	*	AG	141	7.4	.0	10.0
D. Orange AvSBA	*	-5	150	-5	0	*	AG	890	7.4	.0	13.5
E. Orange AvSBD	*	-5	0	-5	-150	*	AG	938	7.4	.0	10.0
F. Orange AvSBL	*	-2	150	0	0	*	AG	0	7.4	.0	10.0
G. I-405 SB EBA	*	-150	-5	0	-5	*	AG	270	7.4	.0	10.0
H. I-405 SB EBD	*	0	-5	150	-5	*	AG	0	7.4	.0	10.0
I. I-405 SB EBL	*	-150	-5	0	0	*	AG	156	7.4	.0	10.0
J. I-405 SB WBA	*	150	0	0	0	*	AG	0	7.4	.0	10.0
K. I-405 SB WBD	*	0	0	-150	0	*	AG	363	7.4	.0	10.0
L. I-405 SB WBL	*	150	2	0	0	*	AG	0	7.4	.0	10.0
M. Orange AvNBA	*	7	-750	7	-150	*	AG	953	7.4	.0	10.0
N. Orange AvNBD	*	7	150	7	750	*	AG	968	7.4	.0	10.0
O. Orange AvSBA	*	-5	750	-5	150	*	AG	890	7.4	.0	13.5
P. Orange AvSBD	*	-5	-150	-5	-750	*	AG	938	7.4	.0	10.0
Q. I-405 SB EBA	*	-750	-5	-150	-5	*	AG	426	7.4	.0	10.0
R. I-405 SB EBD	*	150	-5	750	-5	*	AG	0	7.4	.0	10.0
S. I-405 SB WBA	*	750	0	150	0	*	AG	0	7.4	.0	10.0
T. I-405 SB WBD	*	-150	0	-750	0	*	AG	363	7.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006nP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-12	1.8
2. NW	-14	7	1.8
3. SW	-12	-12	1.8
4. NE	14	7	1.8
5. ES mdblk	150	-12	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-12	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-12	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-12	1.8
16. EN blk	600	7	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.7	.1	.8	.0	.3	.0	.0	.0	.0
2. NW	172.	1.8	.2	.0	.0	.0	.7	.0	.1	.0
3. SW	7.	1.9	.0	.3	.0	.8	.1	.0	.1	.0
4. NE	353.	1.7	.0	1.0	.0	.2	.0	.0	.0	.0
5. ES mdblk	272.	.5	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	101.	.9	.0	.0	.0	.0	.0	.0	.2	.0
7. WS mdblk	79.	.9	.0	.0	.0	.0	.0	.0	.3	.0
8. EN mdblk	268.	.5	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	353.	1.7	.8	.1	.1	.2	.2	.0	.0	.0
10. NW mdblk	174.	1.6	.2	.2	.0	.8	.1	.0	.0	.0
11. SW mdblk	7.	1.7	.2	.2	.0	.1	.9	.0	.0	.0
12. NE mdblk	187.	1.8	.0	1.0	.0	.3	.2	.0	.0	.0
13. ES blk	271.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	84.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	269.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.7	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	1.8	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
2. NW	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.0
3. SW	.0	.0	.1	.0	.0	.3	.2	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.3
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	.0	.0	.0	.0	1.1	.0	.0	.5	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.4	1.0	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.5	.0	.0	1.1	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	7	-150	7	0	AG	667	6.4	.0	10.0
B. Orange AvNBD	7	0	7	150	AG	927	6.4	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	82	6.4	.0	10.0
D. Orange AvSBA	-7	150	-7	0	AG	778	6.4	.0	10.0
E. Orange AvSBD	-7	0	-7	-150	AG	676	6.4	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	156	6.4	.0	10.0
G. Spring StEBA	-150	-7	0	-7	AG	1067	6.4	.0	10.0
H. Spring StEBD	0	-7	150	-7	AG	1233	6.4	.0	10.0
I. Spring StEBL	-150	-5	0	0	AG	175	6.4	.0	10.0
J. Spring StWBA	150	7	0	7	AG	913	6.4	.0	10.0
K. Spring StWBD	0	7	-150	7	AG	1048	6.4	.0	10.0
L. Spring StWBL	150	5	0	0	AG	46	6.4	.0	10.0
M. Orange AvNBA	7	-750	7	-150	AG	749	6.4	.0	10.0
N. Orange AvNBD	7	150	7	750	AG	927	6.4	.0	10.0
O. Orange AvSBA	-7	750	-7	150	AG	934	6.4	.0	10.0
P. Orange AvSBD	-7	-150	-7	-750	AG	676	6.4	.0	10.0
Q. Spring StEBA	-750	-7	-150	-7	AG	1242	6.4	.0	10.0
R. Spring StEBD	150	-7	750	-7	AG	1233	6.4	.0	10.0
S. Spring StWBA	750	7	150	7	AG	959	6.4	.0	10.0
T. Spring StWBD	-150	7	-750	7	AG	1048	6.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006nP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-14	1.8
2. NW	-14	14	1.8
3. SW	-14	-14	1.8
4. NE	14	14	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	14	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.1	.3	.0	.0	.0	.2	.0	.8	.2
2. NW	98.	2.1	.0	.2	.0	.3	.0	.0	.0	.3
3. SW	83.	2.1	.2	.0	.0	.0	.3	.0	.2	.9
4. NE	262.	2.2	.0	.4	.0	.2	.0	.0	.3	.0
5. ES mdblk	277.	1.9	.0	.0	.0	.0	.0	.0	.0	1.0
6. WN mdblk	97.	1.8	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	82.	1.9	.0	.0	.0	.0	.0	.0	.9	.0
8. EN mdblk	263.	1.7	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	354.	1.4	.6	.1	.0	.1	.1	.0	.0	.0
10. NW mdblk	172.	1.5	.1	.2	.0	.7	.0	.1	.0	.0
11. SW mdblk	6.	1.4	.1	.1	.0	.0	.6	.0	.0	.0
12. NE mdblk	188.	1.6	.0	.8	.0	.2	.1	.0	.0	.0
13. ES blk	277.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.7	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	1.6	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.2
2. NW	.0	.7	.2	.0	.0	.0	.0	.0	.0	.2	.1	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
4. NE	.0	.1	.8	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.4	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.0
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.4
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.9	.0
17. SE blk	.0	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.4	.9	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.7	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.9	.4	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	2	-120	2	0	AG	627	5.1	.0	10.0
B. Orange AvNBD	2	0	2	150	AG	692	5.1	.0	10.0
C. Orange AvNBL	2	-120	0	0	AG	0	5.1	.0	10.0
D. Orange AvSBA	-5	120	-5	0	AG	650	5.1	.0	10.0
E. Orange AvSBD	-5	0	-5	-150	AG	659	5.1	.0	10.0
F. Orange AvSBL	-5	120	0	0	AG	40	5.1	.0	10.0
G. 29th St.EBA	-120	0	0	0	AG	0	5.1	.0	10.0
H. 29th St.EBD	0	0	150	0	AG	50	5.1	.0	10.0
I. 29th St.EBL	-120	-2	0	0	AG	0	5.1	.0	10.0
J. 29th St.WBA	120	0	0	0	AG	75	5.1	.0	10.0
K. 29th St.WBD	0	0	-150	0	AG	0	5.1	.0	10.0
L. 29th St.WBL	120	2	0	0	AG	9	5.1	.0	10.0
M. Orange AvNBA	2	-750	2	-150	AG	627	5.1	.0	10.0
N. Orange AvNBD	2	150	2	750	AG	692	5.1	.0	10.0
O. Orange AvSBA	-5	750	-5	150	AG	690	5.1	.0	10.0
P. Orange AvSBD	-5	-150	-5	-750	AG	659	5.1	.0	10.0
Q. 29th St.EBAX	-750	0	-150	0	AG	0	5.1	.0	10.0
R. 29th St.EBDX	150	0	750	0	AG	50	5.1	.0	10.0
S. 29th St.WBAX	750	0	150	0	AG	84	5.1	.0	10.0
T. 29th St.WBDX	-150	0	-750	0	AG	0	5.1	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006nP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-7	1.8
2. NW	*	-12	7	1.8
3. SW	*	-12	-7	1.8
4. NE	*	8	7	1.8
5. ES mdblk	*	150	-7	1.8
6. WN mdblk	*	-150	7	1.8
7. WS mdblk	*	-150	-7	1.8
8. EN mdblk	*	150	7	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-12	150	1.8
11. SW mdblk	*	-12	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-7	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-7	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	.9	.0	.5	.0	.2	.0	.0	.0	.0
2. NW	7.	.9	.0	.2	.0	.4	.0	.0	.0	.0
3. SW	7.	.9	.0	.2	.0	.4	.0	.0	.0	.0
4. NE	353.	.9	.0	.5	.0	.2	.0	.0	.0	.0
5. ES mdblk	277.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	91.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	21.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	263.	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	187.	.8	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	7.	.9	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	6.	.9	.2	.0	.0	.0	.5	.0	.0	.0
12. NE mdblk	187.	.9	.0	.5	.0	.2	.0	.0	.0	.0
13. ES blk	275.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	90.	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	89.	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006nP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
3. SW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	2	-150	2	0	AG	549	5.1	.0	10.0
B. Orange AvNBD	2	0	2	150	AG	606	5.1	.0	10.0
C. Orange AvNBL	2	-150	0	0	AG	0	5.1	.0	10.0
D. Orange AvSBA	-5	150	-5	0	AG	597	5.1	.0	10.0
E. Orange AvSBD	-5	0	-5	-150	AG	616	5.1	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	52	5.1	.0	10.0
G. 28th St.EBA	-150	-2	0	-2	AG	0	5.1	.0	10.0
H. 28th St.EBD	0	-2	150	-2	AG	53	5.1	.0	10.0
I. 28th St.EBL	-150	-2	0	0	AG	0	5.1	.0	10.0
J. 28th St.WBA	150	0	0	0	AG	58	5.1	.0	10.0
K. 28th St.WBD	0	0	-150	0	AG	0	5.1	.0	10.0
L. 28th St.WBL	150	2	0	0	AG	19	5.1	.0	10.0
M. Orange AvNBA	2	-750	2	-150	AG	549	5.1	.0	10.0
N. Orange AvNBD	2	150	2	750	AG	606	5.1	.0	10.0
O. Orange AvSBA	-5	750	-5	150	AG	649	5.1	.0	10.0
P. Orange AvSBD	-5	-150	-5	-750	AG	616	5.1	.0	10.0
Q. 28th St.EBAX	-750	-2	-150	-2	AG	0	5.1	.0	10.0
R. 28th St.EBDX	150	-2	750	-2	AG	53	5.1	.0	10.0
S. 28th St.WBAX	750	0	150	0	AG	77	5.1	.0	10.0
T. 28th St.WBDX	-150	0	-750	0	AG	0	5.1	.0	10.0

JOB: LB Sports Complex
RUN: 2006nP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-8	1.8
2. NW	-12	7	1.8
3. SW	-12	-8	1.8
4. NE	8	7	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-8	1.8
16. EN blk	600	7	1.8
17. SE blk	8	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	354.	.9	.0	.4	.0	.2	.0	.0	.0	.0
2. NW	7.	.9	.0	.2	.0	.4	.0	.0	.0	.0
3. SW	6.	.9	.0	.2	.0	.4	.0	.0	.0	.0
4. NE	353.	.9	.0	.4	.0	.2	.0	.0	.0	.0
5. ES mdblk	279.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	91.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	88.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	262.	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	354.	.8	.4	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	173.	.9	.0	.2	.0	.4	.0	.0	.0	.0
11. SW mdblk	6.	.9	.2	.0	.0	.0	.4	.0	.0	.0
12. NE mdblk	187.	.9	.0	.4	.0	.2	.0	.0	.0	.0
13. ES blk	275.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	90.	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	89.	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.8	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.9	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.9	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
3. SW	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	*	7	-150	7	0	*	AG	441	6.4	.0	10.0
B. Orange AvNBD	*	7	0	7	150	*	AG	512	6.4	.0	10.0
C. Orange AvNBL	*	5	-150	0	0	*	AG	72	6.4	.0	10.0
D. Orange AvSBA	*	-7	150	-7	0	*	AG	548	6.4	.0	10.0
E. Orange AvSBD	*	-7	0	-7	-150	*	AG	593	6.4	.0	10.0
F. Orange AvSBL	*	-5	150	0	0	*	AG	72	6.4	.0	10.0
G. Willow StEBA	*	-150	-9	0	-9	*	AG	1843	6.4	.0	13.5
H. Willow StEBD	*	0	-9	150	-9	*	AG	1917	6.4	.0	11.8
I. Willow StEBL	*	-150	-5	0	0	*	AG	87	6.4	.0	10.0
J. Willow StWBA	*	150	9	0	9	*	AG	1387	6.4	.0	13.5
K. Willow StWBD	*	0	9	-150	9	*	AG	1512	6.4	.0	11.8
L. Willow StWBL	*	150	5	0	0	*	AG	84	6.4	.0	10.0
M. Orange AvNBA	*	7	-750	7	-150	*	AG	513	6.4	.0	10.0
N. Orange AvNBD	*	7	150	7	750	*	AG	512	6.4	.0	10.0
O. Orange AvSBA	*	-7	750	-7	150	*	AG	620	6.4	.0	10.0
P. Orange AvSBD	*	-7	-150	-7	-750	*	AG	593	6.4	.0	10.0
Q. Willow StEBA	*	-750	-9	-150	-9	*	AG	1930	6.4	.0	13.5
R. Willow StEBD	*	150	-9	750	-9	*	AG	1917	6.4	.0	11.8
S. Willow StWBA	*	750	9	150	9	*	AG	1471	6.4	.0	13.5
T. Willow StWBD	*	-150	9	-750	9	*	AG	1512	6.4	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006nP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	X	Y	Z
		COORDINATES (M)		
1. SE	*	14	-16	1.8
2. NW	*	-14	16	1.8
3. SW	*	-14	-17	1.8
4. NE	*	14	17	1.8
5. ES mdblk	*	150	-16	1.8
6. WN mdblk	*	-150	16	1.8
7. WS mdblk	*	-150	-17	1.8
8. EN mdblk	*	150	17	1.8
9. SE mdblk	*	14	-150	1.8
10. NW mdblk	*	-14	150	1.8
11. SW mdblk	*	-14	-150	1.8
12. NE mdblk	*	14	150	1.8
13. ES blk	*	600	-16	1.8
14. WN blk	*	-600	16	1.8
15. WS blk	*	-600	-17	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	14	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.7	.2	.0	.0	.0	.1	.0	1.2	.3
2. NW	98.	2.4	.0	.1	.0	.2	.0	.0	.0	.3
3. SW	82.	2.6	.1	.0	.0	.0	.2	.0	.2	1.2
4. NE	262.	2.4	.0	.2	.0	.1	.0	.0	.3	.0
5. ES mdblk	278.	2.5	.0	.0	.0	.0	.0	.0	.1	1.5
6. WN mdblk	98.	2.3	.0	.0	.0	.0	.0	.0	.3	.3
7. WS mdblk	82.	2.4	.0	.0	.0	.0	.0	.0	1.4	.1
8. EN mdblk	262.	2.1	.0	.0	.0	.0	.0	.0	.3	.2
9. SE mdblk	353.	1.2	.4	.0	.0	.0	.1	.0	.0	.0
10. NW mdblk	173.	1.2	.0	.1	.0	.5	.0	.0	.0	.0
11. SW mdblk	7.	1.2	.0	.0	.0	.0	.5	.0	.0	.0
12. NE mdblk	187.	1.2	.0	.5	.0	.1	.0	.0	.0	.0
13. ES blk	277.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.4	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	1.1	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	.0	.9	.2	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	.0	.2	1.0	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.2
6. WN mdblk	.0	.1	1.2	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.1	.2	.0
8. EN mdblk	.0	1.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.5	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.4
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.5
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.3	.0
17. SE blk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.2	.0	.0	.6	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Walnut AvNBA	*	7	-150	7	0	*	AG	392	5.1	.0	10.0
B. Walnut AvNBD	*	7	0	7	150	*	AG	409	5.1	.0	10.0
C. Walnut AvNBL	*	5	-150	0	0	*	AG	116	5.1	.0	10.0
D. Walnut AvSBA	*	-5	150	-5	0	*	AG	202	5.1	.0	10.0
E. Walnut AvSBD	*	-5	0	-5	-150	*	AG	275	5.1	.0	10.0
F. Walnut AvSBL	*	-5	150	0	0	*	AG	63	5.1	.0	10.0
G. Spring StEBA	*	-150	-7	0	-7	*	AG	1060	5.1	.0	10.0
H. Spring StEBD	*	0	-7	150	-7	*	AG	1172	5.1	.0	10.0
I. Spring StEBL	*	-150	-5	0	0	*	AG	65	5.1	.0	10.0
J. Spring StWBA	*	150	7	0	7	*	AG	724	5.1	.0	10.0
K. Spring StWBD	*	0	7	-150	7	*	AG	818	5.1	.0	10.0
L. Spring StWBL	*	150	5	0	0	*	AG	52	5.1	.0	10.0
M. Walnut AvNBA	*	7	-750	7	-150	*	AG	508	5.1	.0	10.0
N. Walnut AvNBD	*	7	150	7	750	*	AG	409	5.1	.0	10.0
O. Walnut AvSBA	*	-5	750	-5	150	*	AG	265	5.1	.0	10.0
P. Walnut AvSBD	*	-5	-150	-5	-750	*	AG	275	5.1	.0	10.0
Q. Spring StEBA	*	-750	-7	-150	-7	*	AG	1125	5.1	.0	10.0
R. Spring StEBD	*	150	-7	750	-7	*	AG	1172	5.1	.0	10.0
S. Spring StWBA	*	750	7	150	7	*	AG	776	5.1	.0	10.0
T. Spring StWBD	*	-150	7	-750	7	*	AG	818	5.1	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006nP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-14	1.8
2. NW	-12	14	1.8
3. SW	-12	-14	1.8
4. NE	14	14	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	14	1.8
17. SE blk	14	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	1.4	.1	.0	.0	.0	.0	.0	.6	.1
2. NW	98.	1.2	.0	.0	.0	.0	.0	.0	.0	.2
3. SW	83.	1.4	.0	.0	.0	.0	.0	.0	.0	.7
4. NE	263.	1.3	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	277.	1.3	.0	.0	.0	.0	.0	.0	.0	.8
6. WN mdblk	97.	1.2	.0	.0	.0	.0	.0	.0	.2	.1
7. WS mdblk	83.	1.3	.0	.0	.0	.0	.0	.0	.7	.0
8. EN mdblk	263.	1.1	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	353.	.7	.3	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	173.	.6	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	7.	.6	.0	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	186.	.7	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	.6	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.6	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006nP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
							CONC/LINK (PPM)						
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2
2. NW	*	.0	.5	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0
4. NE	*	.0	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdblk	*	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.7
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	.0
17. SE blk	*	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006nP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Walnut AvNBA	*	7	-150	7	0	*	AG	525	5.6	.0	10.0
B. Walnut AvNBD	*	7	0	7	150	*	AG	439	5.6	.0	10.0
C. Walnut AvNBL	*	5	-150	0	0	*	AG	79	5.6	.0	10.0
D. Walnut AvSBA	*	-7	150	-7	0	*	AG	243	5.6	.0	10.0
E. Walnut AvSBD	*	-7	0	-7	-150	*	AG	391	5.6	.0	10.0
F. Walnut AvSBL	*	-5	150	0	0	*	AG	90	5.6	.0	10.0
G. Willow StEBA	*	-150	-9	0	-9	*	AG	1861	5.6	.0	13.5
H. Willow StEBD	*	0	-9	150	-9	*	AG	2100	5.6	.0	11.8
I. Willow StEBL	*	-150	-5	0	0	*	AG	70	5.6	.0	10.0
J. Willow StWBA	*	150	9	0	9	*	AG	1471	5.6	.0	13.5
K. Willow StWBD	*	0	9	-150	9	*	AG	1536	5.6	.0	11.8
L. Willow StWBL	*	150	5	0	0	*	AG	127	5.6	.0	10.0
M. Walnut AvNBA	*	7	-750	7	-150	*	AG	604	5.6	.0	10.0
N. Walnut AvNBD	*	7	150	7	750	*	AG	439	5.6	.0	10.0
O. Walnut AvSBA	*	-7	750	-7	150	*	AG	333	5.6	.0	10.0
P. Walnut AvSBD	*	-7	-150	-7	-750	*	AG	391	5.6	.0	10.0
Q. Willow StEBA	*	-750	-9	-150	-9	*	AG	1931	5.6	.0	13.5
R. Willow StEBD	*	150	-9	750	-9	*	AG	2100	5.6	.0	11.8
S. Willow StWBA	*	750	9	150	9	*	AG	1598	5.6	.0	13.5
T. Willow StWBD	*	-150	9	-750	9	*	AG	1536	5.6	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006nP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-16	1.8
2. NW	-14	16	1.8
3. SW	-14	-17	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-16	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-17	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-16	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-17	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006nP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.4	.2	.0	.0	.0	.0	.0	1.1	.3
2. NW	98.	2.1	.0	.0	.0	.0	.0	.0	.0	.3
3. SW	82.	2.3	.1	.0	.0	.0	.1	.0	.2	1.1
4. NE	262.	2.0	.0	.2	.0	.0	.0	.0	.2	.0
5. ES mdblk	278.	2.3	.0	.0	.0	.0	.0	.0	.1	1.4
6. WN mdblk	98.	2.0	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	82.	2.1	.0	.0	.0	.0	.0	.0	1.2	.1
8. EN mdblk	262.	2.0	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	353.	1.0	.4	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	174.	.9	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	7.	.9	.0	.0	.0	.0	.3	.0	.0	.0
12. NE mdblk	186.	.9	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.8	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	.8	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.8	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006nP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	.0	.9	.2	.0	.0	.0	.0	.0	.0	.3	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	.0	.2	.9	.0	.0	.0	.0	.0	.3	.0	.0	.2
5. ES mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.1	.1	.0
8. EN mdblk	.0	1.0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.5	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.2
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.4
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.2	.0
17. SE blk	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0

LONG BEACH SPORTS COMPLEX

AIR QUALITY CO HOT SPOT ANALYSIS

CALINE4 MODEL PRINTOUTS

OPENING YEAR (YEAR 2006) WITH PROJECT

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Atlantic NBA	7	-150	7	0	AG	1759	7.4	.0	10.0
B. Atlantic NBD	7	0	7	150	AG	1941	7.4	.0	10.0
C. Atlantic NBL	5	-150	0	0	AG	37	7.4	.0	10.0
D. Atlantic SBA	-7	150	-7	0	AG	1269	7.4	.0	10.0
E. Atlantic SBD	-7	0	-7	-150	AG	1314	7.4	.0	10.0
F. Atlantic SBL	-5	150	0	0	AG	155	7.4	.0	10.0
G. Spring StEBA	-150	-7	0	-7	AG	797	7.4	.0	10.0
H. Spring StEBD	0	-7	150	-7	AG	1076	7.4	.0	10.0
I. Spring StEBL	-150	-5	0	0	AG	227	7.4	.0	10.0
J. Spring StWBA	150	9	0	9	AG	664	7.4	.0	13.5
K. Spring StWBD	0	9	-150	9	AG	681	7.4	.0	10.0
L. Spring StWBL	150	5	0	0	AG	104	7.4	.0	10.0
M. Atlantic NBA	7	-750	7	-150	AG	1796	7.4	.0	10.0
N. Atlantic NBD	7	150	7	750	AG	1941	7.4	.0	10.0
O. Atlantic SBA	-7	750	-7	150	AG	1424	7.4	.0	10.0
P. Atlantic SBD	-7	-150	-7	-750	AG	1314	7.4	.0	10.0
Q. Spring StEBA	-750	-7	-150	-7	AG	1024	7.4	.0	10.0
R. Spring StEBD	150	-7	750	-7	AG	1076	7.4	.0	10.0
S. Spring StWBA	750	9	150	9	AG	768	7.4	.0	13.5
T. Spring StWBD	-150	9	-750	9	AG	681	7.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006wP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	14	-14	1.8
2. NW	*	-14	15	1.8
3. SW	*	-14	-14	1.8
4. NE	*	14	17	1.8
5. ES mdblk	*	150	-14	1.8
6. WN mdblk	*	-150	15	1.8
7. WS mdblk	*	-150	-14	1.8
8. EN mdblk	*	150	17	1.8
9. SE mdblk	*	14	-150	1.8
10. NW mdblk	*	-14	150	1.8
11. SW mdblk	*	-14	-150	1.8
12. NE mdblk	*	14	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	15	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	17	1.8
17. SE blk	*	14	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	352.	3.4	.3	1.4	.0	.3	.0	.0	.0	.5
2. NW	172.	2.9	.4	.0	.0	.3	1.0	.0	.2	.0
3. SW	8.	3.0	.0	.4	.0	1.0	.2	.1	.4	.0
4. NE	188.	3.2	1.2	.5	.0	.0	.4	.0	.0	.3
5. ES mdblk	277.	2.0	.0	.1	.0	.0	.0	.0	.0	1.1
6. WN mdblk	97.	1.8	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	83.	1.9	.0	.1	.0	.0	.0	.0	.8	.1
8. EN mdblk	262.	1.7	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	353.	2.8	1.6	.2	.0	.2	.3	.0	.0	.0
10. NW mdblk	172.	2.6	.2	.4	.0	1.3	.1	.1	.0	.0
11. SW mdblk	7.	2.6	.3	.3	.0	.1	1.3	.0	.0	.0
12. NE mdblk	188.	2.9	.1	1.8	.0	.3	.2	.0	.0	.0
13. ES blk	277.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	2.8	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	2.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	2.9	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-01 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
	*	CONC/LINK (PPM)											
1. SE	*	.0	.2	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.3	.0	.4	.0	.0	.2	.0	.0	.0	.0
3. SW	*	.0	.0	.2	.0	.0	.4	.2	.0	.0	.0	.0	.0
4. NE	*	.0	.3	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
5. ES mdblk	*	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	*	.0	.0	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	*	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdblk	*	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.4	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.8
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0
17. SE blk	*	.0	.0	.0	.0	1.8	.0	.0	.6	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.7	1.5	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.7	.0	.0	1.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	2.0	.6	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Atlantic NBA	*	7	-150	7	0	*	AG	1000	7.4	.0	10.0
B. Atlantic NBD	*	7	0	7	150	*	AG	1259	7.4	.0	10.0
C. Atlantic NBL	*	5	-150	0	0	*	AG	162	7.4	.0	10.0
D. Atlantic SBA	*	-7	150	-7	0	*	AG	1069	7.4	.0	10.0
E. Atlantic SBD	*	-7	0	-7	-150	*	AG	1153	7.4	.0	10.0
F. Atlantic SBL	*	-5	150	0	0	*	AG	291	7.4	.0	10.0
G. Willow StEBA	*	-150	-12	0	-12	*	AG	1544	7.4	.0	13.5
H. Willow StEBD	*	0	-12	150	-12	*	AG	1868	7.4	.0	11.8
I. Willow StEBL	*	-150	-9	0	0	*	AG	264	7.4	.0	10.0
J. Willow StWBA	*	150	9	0	9	*	AG	1334	7.4	.0	13.5
K. Willow StWBD	*	0	9	-150	9	*	AG	1539	7.4	.0	11.8
L. Willow StWBL	*	150	5	0	0	*	AG	155	7.4	.0	10.0
M. Atlantic NBA	*	7	-750	7	-150	*	AG	1162	7.4	.0	10.0
N. Atlantic NBD	*	7	150	7	750	*	AG	1259	7.4	.0	10.0
O. Atlantic SBA	*	-7	750	-7	150	*	AG	1360	7.4	.0	10.0
P. Atlantic SBD	*	-7	-150	-7	-750	*	AG	1153	7.4	.0	10.0
Q. Willow StEBA	*	-750	-12	-150	-12	*	AG	1808	7.4	.0	13.5
R. Willow StEBD	*	150	-12	750	-12	*	AG	1868	7.4	.0	11.8
S. Willow StWBA	*	750	9	150	9	*	AG	1489	7.4	.0	13.5
T. Willow StWBD	*	-150	9	-750	9	*	AG	1539	7.4	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-20	1.8
2. NW	-14	16	1.8
3. SW	-14	-21	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-20	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-21	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-20	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-21	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	3.3	.5	.0	.0	.0	.3	.0	1.2	.3
2. NW	98.	3.2	.0	.3	.0	.5	.0	.1	.0	.2
3. SW	82.	3.3	.3	.0	.0	.0	.5	.0	.2	1.3
4. NE	261.	3.3	.0	.6	.0	.3	.0	.0	.2	.0
5. ES mdblk	278.	2.9	.0	.0	.0	.0	.0	.0	.1	1.7
6. WN mdblk	98.	2.7	.0	.0	.0	.0	.0	.0	.2	.3
7. WS mdblk	82.	2.7	.0	.0	.0	.0	.0	.0	1.4	.2
8. EN mdblk	262.	2.5	.0	.0	.0	.0	.0	.0	.3	.2
9. SE mdblk	353.	2.4	1.0	.1	.1	.2	.2	.0	.0	.0
10. NW mdblk	172.	2.5	.2	.3	.0	1.1	.0	.2	.0	.1
11. SW mdblk	7.	2.4	.2	.2	.0	.1	1.1	.0	.0	.1
12. NE mdblk	188.	2.5	.0	1.2	.0	.3	.2	.1	.1	.0
13. ES blk	277.	2.8	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.6	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	82.	2.7	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	262.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	2.4	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	2.4	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-02 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.1	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.4
2. NW	.0	1.1	.3	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0
4. NE	.1	.2	1.1	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	.0	.2	.3	.0	.0	.0	.0	.0	.1	.0	.0	.2
6. WN mdblk	.0	.1	1.4	.0	.0	.0	.0	.0	.0	.2	.1	.0
7. WS mdblk	.1	.2	.2	.0	.0	.0	.0	.0	.0	.1	.2	.0
8. EN mdblk	.0	1.2	.1	.0	.0	.0	.0	.0	.2	.0	.0	.1
9. SE mdblk	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.5	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.6
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.5
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.5	.0
17. SE blk	.0	.0	.0	.0	1.3	.0	.0	.5	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.5	1.5	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.5	.0	.0	1.3	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.4	.6	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CaliforniNBA	2	-150	2	0	AG	348	5.1	.0	10.0
B. CaliforniNBD	2	0	2	150	AG	376	5.1	.0	10.0
C. CaliforniNBL	2	-150	0	0	AG	54	5.1	.0	10.0
D. CaliforniSBA	-2	150	-2	0	AG	198	5.1	.0	10.0
E. CaliforniSBD	-2	0	-2	-150	AG	283	5.1	.0	10.0
F. CaliforniSBL	-2	150	0	0	AG	177	5.1	.0	10.0
G. Spring StEBA	-150	-7	0	-7	AG	1043	5.1	.0	10.0
H. Spring StEBD	0	-7	150	-7	AG	1295	5.1	.0	10.0
I. Spring StEBL	-150	-5	0	0	AG	32	5.1	.0	10.0
J. Spring StWBA	150	7	0	7	AG	817	5.1	.0	10.0
K. Spring StWBD	0	7	-150	7	AG	795	5.1	.0	10.0
L. Spring StWBL	150	5	0	0	AG	80	5.1	.0	10.0
M. CaliforniNBA	2	-750	2	-150	AG	402	5.1	.0	10.0
N. CaliforniNBD	2	150	2	750	AG	376	5.1	.0	10.0
O. CaliforniSBA	-2	750	-2	150	AG	375	5.1	.0	10.0
P. CaliforniSBD	-2	-150	-2	-750	AG	283	5.1	.0	10.0
Q. Spring StEBA	-750	-7	-150	-7	AG	1075	5.1	.0	10.0
R. Spring StEBD	150	-7	750	-7	AG	1295	5.1	.0	10.0
S. Spring StWBA	750	7	150	7	AG	897	5.1	.0	10.0
T. Spring StWBD	-150	7	-750	7	AG	795	5.1	.0	10.0

JOB: LB Sports Complex
RUN: 2006wP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-14	1.8
2. NW	-8	14	1.8
3. SW	-8	-14	1.8
4. NE	8	14	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-8	150	1.8
11. SW mdblk	-8	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	14	1.8
17. SE blk	8	-600	1.8
18. NW blk	-8	600	1.8
19. SW blk	-8	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	1.4	.1	.0	.0	.0	.0	.0	.7	.0
2. NW	97.	1.4	.0	.1	.0	.0	.0	.0	.0	.2
3. SW	83.	1.5	.0	.0	.0	.0	.0	.0	.0	.8
4. NE	263.	1.3	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	278.	1.4	.0	.0	.0	.0	.0	.0	.0	.9
6. WN mdblk	97.	1.2	.0	.0	.0	.0	.0	.0	.2	.1
7. WS mdblk	83.	1.3	.0	.0	.0	.0	.0	.0	.7	.0
8. EN mdblk	262.	1.2	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	354.	.8	.3	.0	.0	.0	.1	.0	.0	.0
10. NW mdblk	174.	.8	.0	.2	.0	.2	.0	.1	.0	.0
11. SW mdblk	6.	.7	.2	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	186.	.8	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.7	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.7	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.7	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-03 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

	*	CONC/LINK (PPM)											
RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	*	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2
2. NW	*	.0	.5	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0
3. SW	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0
4. NE	*	.0	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdblk	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	*	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.3	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.3
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0
17. SE blk	*	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. CaliforniNBA	*	2	-150	2	0	*	AG	387	5.6	.0	10.0
B. CaliforniNBD	*	2	0	2	150	*	AG	357	5.6	.0	10.0
C. CaliforniNBL	*	2	-150	0	0	*	AG	93	5.6	.0	10.0
D. CaliforniSBA	*	-2	150	-2	0	*	AG	161	5.6	.0	10.0
E. CaliforniSBD	*	-2	0	-2	-150	*	AG	379	5.6	.0	10.0
F. CaliforniSBL	*	-2	150	0	0	*	AG	154	5.6	.0	10.0
G. Willow StEBA	*	-150	-9	0	-9	*	AG	1857	5.6	.0	13.5
H. Willow StEBD	*	0	-9	150	-9	*	AG	2038	5.6	.0	11.8
I. Willow StEBL	*	-150	-5	0	0	*	AG	46	5.6	.0	10.0
J. Willow StWBA	*	150	9	0	9	*	AG	1377	5.6	.0	13.5
K. Willow StWBD	*	0	9	-150	9	*	AG	1475	5.6	.0	11.8
L. Willow StWBL	*	150	5	0	0	*	AG	174	5.6	.0	10.0
M. CaliforniNBA	*	2	-750	2	-150	*	AG	480	5.6	.0	10.0
N. CaliforniNBD	*	2	150	2	750	*	AG	357	5.6	.0	10.0
O. CaliforniSBA	*	-2	750	-2	150	*	AG	315	5.6	.0	10.0
P. CaliforniSBD	*	-2	-150	-2	-750	*	AG	379	5.6	.0	10.0
Q. Willow StEBA	*	-750	-9	-150	-9	*	AG	1903	5.6	.0	13.5
R. Willow StEBD	*	150	-9	750	-9	*	AG	2038	5.6	.0	11.8
S. Willow StWBA	*	750	9	150	9	*	AG	1551	5.6	.0	13.5
T. Willow StWBD	*	-150	9	-750	9	*	AG	1475	5.6	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-16	1.8
2. NW	-8	16	1.8
3. SW	-8	-17	1.8
4. NE	8	17	1.8
5. ES mdblk	150	-16	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-17	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-8	150	1.8
11. SW mdblk	-8	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-16	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-17	1.8
16. EN blk	600	17	1.8
17. SE blk	8	-600	1.8
18. NW blk	-8	600	1.8
19. SW blk	-8	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	2.3	.1	.0	.0	.0	.1	.0	1.2	.0
2. NW	98.	2.1	.0	.1	.0	.0	.0	.0	.0	.2
3. SW	82.	2.2	.1	.0	.0	.0	.1	.0	.0	1.1
4. NE	262.	1.9	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	278.	2.2	.0	.0	.0	.0	.0	.0	.1	1.4
6. WN mdblk	98.	2.0	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	82.	2.1	.0	.0	.0	.0	.0	.0	1.2	.1
8. EN mdblk	262.	1.9	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	354.	1.0	.3	.0	.0	.0	.2	.0	.0	.0
10. NW mdblk	174.	.9	.0	.2	.0	.1	.0	.1	.0	.0
11. SW mdblk	6.	1.0	.2	.0	.0	.0	.3	.0	.0	.0
12. NE mdblk	185.	.9	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.8	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.8	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-04 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	.0	.9	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	.0	.0	.9	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
6. WN mdblk	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.0	.1	.1	.0
8. EN mdblk	.0	.9	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.2
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.4
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.2	.0
17. SE blk	.0	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 23. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 10. DEGREES TEMP= 10.0 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	5	-150	5	0	AG	969	6.4	.0	10.0
B. Orange AvNBD	5	0	5	150	AG	973	6.4	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	45	6.4	.0	10.0
D. Orange AvSBA	-5	150	-5	0	AG	650	6.4	.0	10.0
E. Orange AvSBD	-5	0	-5	-150	AG	971	6.4	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	82	6.4	.0	10.0
G. 32nd St.EBA	-150	-2	0	-2	AG	64	6.4	.0	10.0
H. 32nd St.EBD	0	-2	150	-2	AG	348	6.4	.0	10.0
I. 32nd St.EBL	-150	-2	0	0	AG	5	6.4	.0	10.0
J. 32nd St.WBA	150	5	0	5	AG	317	6.4	.0	10.0
K. 32nd St.WBD	0	5	-150	5	AG	125	6.4	.0	10.0
L. 32nd St.WBL	150	5	0	0	AG	285	6.4	.0	10.0
M. Orange AvNBA	5	-750	5	-150	AG	1014	6.4	.0	10.0
N. Orange AvNBD	5	150	5	750	AG	973	6.4	.0	10.0
O. Orange AvSBA	-5	750	-5	150	AG	732	6.4	.0	10.0
P. Orange AvSBD	-5	-150	-5	-750	AG	971	6.4	.0	10.0
Q. 32nd St.EBAX	-750	-2	-150	-2	AG	69	6.4	.0	10.0
R. 32nd St.EBDX	150	-2	750	-2	AG	348	6.4	.0	10.0
S. 32nd St.WBAX	750	5	150	5	AG	602	6.4	.0	10.0
T. 32nd St.WBDX	-150	5	-750	5	AG	125	6.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	12	-8	1.8
2. NW	-12	12	1.8
3. SW	-12	-8	1.8
4. NE	12	12	1.8
5. ES mdblk	150	-8	1.8
6. WN mdblk	-150	12	1.8
7. WS mdblk	-150	-8	1.8
8. EN mdblk	150	12	1.8
9. SE mdblk	12	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	12	150	1.8
13. ES blk	600	-8	1.8
14. WN blk	-600	12	1.8
15. WS blk	-600	-8	1.8
16. EN blk	600	12	1.8
17. SE blk	12	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	12	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.7	.0	.8	.0	.2	.0	.0	.0	.1
2. NW	173.	1.6	.3	.0	.0	.0	.7	.0	.0	.0
3. SW	84.	1.5	.2	.0	.0	.0	.4	.0	.0	.3
4. NE	187.	1.8	.7	.1	.0	.0	.3	.0	.0	.1
5. ES mdblk	279.	.9	.0	.0	.0	.0	.0	.0	.0	.3
6. WN mdblk	93.	.6	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	87.	.6	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	260.	1.0	.0	.0	.0	.0	.0	.0	.0	.2
9. SE mdblk	353.	1.6	.8	.0	.0	.1	.3	.0	.0	.0
10. NW mdblk	173.	1.4	.1	.3	.0	.6	.0	.0	.0	.0
11. SW mdblk	7.	1.6	.3	.1	.0	.0	.8	.0	.0	.0
12. NE mdblk	186.	1.5	.1	.8	.0	.2	.1	.0	.0	.0
13. ES blk	276.	.9	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	95.	.4	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	87.	.4	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	264.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.5	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-05 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.1	.0	.2	.2	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
3. SW	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.2	.0
4. NE	.0	.1	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
5. ES mdblk	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0
17. SE blk	.0	.0	.0	.0	1.0	.0	.0	.4	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.5	.0	.0	1.0	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.0	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION

JOB: LB Sports Complex
RUN: 2006wP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
		LINK COORDINATES (M)									
A. Orange AvNBA	*	7	-150	7	0	*	AG	846	7.4	.0	10.0
B. Orange AvNBD	*	7	0	7	150	*	AG	1002	7.4	.0	10.0
C. Orange AvNBL	*	5	-150	0	0	*	AG	175	7.4	.0	10.0
D. Orange AvSBA	*	-5	150	-5	0	*	AG	982	7.4	.0	13.5
E. Orange AvSBD	*	-5	0	-5	-150	*	AG	1076	7.4	.0	10.0
F. Orange AvSBL	*	-2	150	0	0	*	AG	0	7.4	.0	10.0
G. I-405 SB EBA	*	-150	-5	0	-5	*	AG	316	7.4	.0	10.0
H. I-405 SB EBD	*	0	-5	150	-5	*	AG	0	7.4	.0	10.0
I. I-405 SB EBL	*	-150	-5	0	0	*	AG	156	7.4	.0	10.0
J. I-405 SB WBA	*	150	0	0	0	*	AG	0	7.4	.0	10.0
K. I-405 SB WBD	*	0	0	-150	0	*	AG	397	7.4	.0	10.0
L. I-405 SB WBL	*	150	2	0	0	*	AG	0	7.4	.0	10.0
M. Orange AvNBA	*	7	-750	7	-150	*	AG	1021	7.4	.0	10.0
N. Orange AvNBD	*	7	150	7	750	*	AG	1002	7.4	.0	10.0
O. Orange AvSBA	*	-5	750	-5	150	*	AG	982	7.4	.0	13.5
P. Orange AvSBD	*	-5	-150	-5	-750	*	AG	1076	7.4	.0	10.0
Q. I-405 SB EBA	*	-750	-5	-150	-5	*	AG	472	7.4	.0	10.0
R. I-405 SB EBD	*	150	-5	750	-5	*	AG	0	7.4	.0	10.0
S. I-405 SB WBA	*	750	0	150	0	*	AG	0	7.4	.0	10.0
T. I-405 SB WBD	*	-150	0	-750	0	*	AG	397	7.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-12	1.8
2. NW	-14	7	1.8
3. SW	-12	-12	1.8
4. NE	14	7	1.8
5. ES mdblk	150	-12	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-12	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-12	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-12	1.8
16. EN blk	600	7	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	187.	1.7	.8	.0	.1	.0	.2	.0	.0	.0
2. NW	172.	2.0	.2	.0	.0	.0	.8	.0	.1	.0
3. SW	7.	2.1	.0	.3	.0	.9	.1	.0	.2	.0
4. NE	353.	1.8	.0	1.0	.0	.3	.0	.0	.0	.0
5. ES mdblk	272.	.6	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	101.	1.0	.0	.0	.0	.0	.1	.0	.2	.0
7. WS mdblk	79.	1.0	.0	.0	.0	.0	.0	.0	.4	.0
8. EN mdblk	268.	.6	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	353.	1.9	.9	.1	.1	.2	.3	.0	.0	.0
10. NW mdblk	174.	1.7	.2	.2	.0	.9	.1	.0	.0	.0
11. SW mdblk	7.	1.9	.2	.2	.0	.1	1.1	.0	.0	.0
12. NE mdblk	187.	1.9	.0	1.0	.0	.3	.2	.0	.0	.0
13. ES blk	270.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	96.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	84.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	269.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.7	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	1.9	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-06 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
2. NW	.0	.0	.2	.0	.3	.0	.0	.2	.0	.0	.0	.0
3. SW	.0	.0	.1	.0	.0	.3	.2	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.5
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.3
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	.0	.0	.0	.0	1.2	.0	.0	.5	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.4	1.1	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.5	.0	.0	1.2	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	7	-150	7	0	AG	730	7.4	.0	10.0
B. Orange AvNBD	7	0	7	150	AG	995	7.4	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	115	7.4	.0	10.0
D. Orange AvSBA	-7	150	-7	0	AG	916	7.4	.0	10.0
E. Orange AvSBD	-7	0	-7	-150	AG	992	7.4	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	156	7.4	.0	10.0
G. Spring StEBA	-150	-7	0	-7	AG	1190	7.4	.0	10.0
H. Spring StEBD	0	-7	150	-7	AG	1270	7.4	.0	10.0
I. Spring StEBL	-150	-5	0	0	AG	203	7.4	.0	10.0
J. Spring StWBA	150	7	0	7	AG	916	7.4	.0	10.0
K. Spring StWBD	0	7	-150	7	AG	1090	7.4	.0	10.0
L. Spring StWBL	150	5	0	0	AG	121	7.4	.0	10.0
M. Orange AvNBA	7	-750	7	-150	AG	845	7.4	.0	10.0
N. Orange AvNBD	7	150	7	750	AG	995	7.4	.0	10.0
O. Orange AvSBA	-7	750	-7	150	AG	1072	7.4	.0	10.0
P. Orange AvSBD	-7	-150	-7	-750	AG	992	7.4	.0	10.0
Q. Spring StEBA	-750	-7	-150	-7	AG	1393	7.4	.0	10.0
R. Spring StEBD	150	-7	750	-7	AG	1270	7.4	.0	10.0
S. Spring StWBA	750	7	150	7	AG	1037	7.4	.0	10.0
T. Spring StWBD	-150	7	-750	7	AG	1090	7.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	14	-14	1.8
2. NW	*	-14	14	1.8
3. SW	*	-14	-14	1.8
4. NE	*	14	14	1.8
5. ES mdblk	*	150	-14	1.8
6. WN mdblk	*	-150	14	1.8
7. WS mdblk	*	-150	-14	1.8
8. EN mdblk	*	150	14	1.8
9. SE mdblk	*	14	-150	1.8
10. NW mdblk	*	-14	150	1.8
11. SW mdblk	*	-14	-150	1.8
12. NE mdblk	*	14	150	1.8
13. ES blk	*	600	-14	1.8
14. WN blk	*	-600	14	1.8
15. WS blk	*	-600	-14	1.8
16. EN blk	*	600	14	1.8
17. SE blk	*	14	-600	1.8
18. NW blk	*	-14	600	1.8
19. SW blk	*	-14	-600	1.8
20. NE blk	*	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.7	.3	.0	.0	.0	.3	.0	1.0	.2
2. NW	98.	2.6	.0	.3	.0	.4	.0	.0	.0	.3
3. SW	82.	2.7	.2	.0	.0	.0	.5	.0	.2	1.0
4. NE	262.	2.7	.0	.5	.0	.2	.0	.0	.3	.0
5. ES mdblk	277.	2.3	.0	.0	.0	.0	.0	.0	.1	1.2
6. WN mdblk	97.	2.2	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	82.	2.3	.0	.0	.0	.0	.0	.0	1.2	.1
8. EN mdblk	263.	2.1	.0	.0	.0	.0	.0	.0	.2	.3
9. SE mdblk	353.	1.9	.7	.1	.1	.2	.2	.0	.0	.0
10. NW mdblk	173.	2.0	.1	.2	.0	.9	.1	.1	.0	.0
11. SW mdblk	7.	2.0	.2	.2	.0	.1	1.0	.0	.0	.0
12. NE mdblk	188.	2.0	.0	1.0	.0	.2	.2	.0	.0	.0
13. ES blk	277.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	353.	1.8	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	2.0	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	1.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	2.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-07 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
						CONC/LINK (PPM)						
1. SE	.1	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	.0	.8	.2	.0	.0	.0	.0	.0	.0	.3	.1	.0
3. SW	.0	.3	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	.1	.2	.9	.0	.0	.0	.0	.0	.3	.0	.0	.1
5. ES mdblk	.0	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
6. WN mdblk	.0	.1	1.1	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.1	.0
8. EN mdblk	.0	.9	.1	.1	.0	.0	.0	.0	.2	.0	.0	.1
9. SE mdblk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.5	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.2
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.5
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.2	.0
17. SE blk	.0	.0	.0	.0	1.0	.0	.0	.5	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.5	1.2	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.4	.0	.0	1.1	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	*	2	-120	2	0	*	AG	723	5.1	.0	10.0
B. Orange AvNBD	*	2	0	2	150	*	AG	788	5.1	.0	10.0
C. Orange AvNBL	*	2	-120	0	0	*	AG	0	5.1	.0	10.0
D. Orange AvSBA	*	-5	120	-5	0	*	AG	966	5.1	.0	10.0
E. Orange AvSBD	*	-5	0	-5	-150	*	AG	975	5.1	.0	10.0
F. Orange AvSBL	*	-5	120	0	0	*	AG	40	5.1	.0	10.0
G. 29th St.EBA	*	-120	0	0	0	*	AG	0	5.1	.0	10.0
H. 29th St.EBD	*	0	0	150	0	*	AG	50	5.1	.0	10.0
I. 29th St.EBL	*	-120	-2	0	0	*	AG	0	5.1	.0	10.0
J. 29th St.WBA	*	120	0	0	0	*	AG	75	5.1	.0	10.0
K. 29th St.WBD	*	0	0	-150	0	*	AG	0	5.1	.0	10.0
L. 29th St.WBL	*	120	2	0	0	*	AG	9	5.1	.0	10.0
M. Orange AvNBA	*	2	-750	2	-150	*	AG	723	5.1	.0	10.0
N. Orange AvNBD	*	2	150	2	750	*	AG	788	5.1	.0	10.0
O. Orange AvSBA	*	-5	750	-5	150	*	AG	1006	5.1	.0	10.0
P. Orange AvSBD	*	-5	-150	-5	-750	*	AG	975	5.1	.0	10.0
Q. 29th St.EBAX	*	-750	0	-150	0	*	AG	0	5.1	.0	10.0
R. 29th St.EBDX	*	150	0	750	0	*	AG	50	5.1	.0	10.0
S. 29th St.WBAX	*	750	0	150	0	*	AG	84	5.1	.0	10.0
T. 29th St.WBDX	*	-150	0	-750	0	*	AG	0	5.1	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	8	-7	1.8
2. NW	-12	7	1.8
3. SW	-12	-7	1.8
4. NE	8	7	1.8
5. ES mdblk	150	-7	1.8
6. WN mdblk	-150	7	1.8
7. WS mdblk	-150	-7	1.8
8. EN mdblk	150	7	1.8
9. SE mdblk	8	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	8	150	1.8
13. ES blk	600	-7	1.8
14. WN blk	-600	7	1.8
15. WS blk	-600	-7	1.8
16. EN blk	600	7	1.8
17. SE blk	8	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.1	.0	.5	.0	.2	.0	.0	.0	.0
2. NW	7.	1.2	.0	.2	.0	.6	.0	.0	.0	.0
3. SW	7.	1.1	.0	.2	.0	.6	.0	.0	.0	.0
4. NE	353.	1.1	.0	.5	.0	.2	.0	.0	.0	.0
5. ES mdblk	278.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	159.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	21.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	263.	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	187.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	7.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	7.	1.2	.2	.0	.0	.0	.7	.0	.0	.0
12. NE mdblk	187.	1.1	.0	.6	.0	.3	.1	.0	.0	.0
13. ES blk	275.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	90.	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	89.	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	265.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.2	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-08 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
							CONC/LINK (PPM)						
1. SE	*	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
2. NW	*	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
3. SW	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
4. NE	*	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
5. ES mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
7. WS mdblk	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
8. EN mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.4	.8	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.8	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.3	.0	.0	.8	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	*	2	-150	2	0	*	AG	602	7.4	.0	10.0
B. Orange AvNBD	*	2	0	2	150	*	AG	706	7.4	.0	10.0
C. Orange AvNBL	*	2	-150	0	0	*	AG	66	7.4	.0	10.0
D. Orange AvSBA	*	-5	150	-5	0	*	AG	794	7.4	.0	10.0
E. Orange AvSBD	*	-5	0	-5	-150	*	AG	679	7.4	.0	10.0
F. Orange AvSBL	*	-5	150	0	0	*	AG	52	7.4	.0	10.0
G. 28th St.EBA	*	-150	-2	0	-2	*	AG	20	7.4	.0	10.0
H. 28th St.EBD	*	0	-2	150	-2	*	AG	53	7.4	.0	10.0
I. 28th St.EBL	*	-150	-2	0	0	*	AG	47	7.4	.0	10.0
J. 28th St.WBA	*	150	0	0	0	*	AG	58	7.4	.0	10.0
K. 28th St.WBD	*	0	0	-150	0	*	AG	220	7.4	.0	10.0
L. 28th St.WBL	*	150	2	0	0	*	AG	19	7.4	.0	10.0
M. Orange AvNBA	*	2	-750	2	-150	*	AG	668	7.4	.0	10.0
N. Orange AvNBD	*	2	150	2	750	*	AG	706	7.4	.0	10.0
O. Orange AvSBA	*	-5	750	-5	150	*	AG	846	7.4	.0	10.0
P. Orange AvSBD	*	-5	-150	-5	-750	*	AG	679	7.4	.0	10.0
Q. 28th St.EBAX	*	-750	-2	-150	-2	*	AG	67	7.4	.0	10.0
R. 28th St.EBDX	*	150	-2	750	-2	*	AG	53	7.4	.0	10.0
S. 28th St.WBAX	*	750	0	150	0	*	AG	77	7.4	.0	10.0
T. 28th St.WBDX	*	-150	0	-750	0	*	AG	220	7.4	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. SE	*	8	-8	1.8
2. NW	*	-12	7	1.8
3. SW	*	-12	-8	1.8
4. NE	*	8	7	1.8
5. ES mdblk	*	150	-8	1.8
6. WN mdblk	*	-150	7	1.8
7. WS mdblk	*	-150	-8	1.8
8. EN mdblk	*	150	7	1.8
9. SE mdblk	*	8	-150	1.8
10. NW mdblk	*	-12	150	1.8
11. SW mdblk	*	-12	-150	1.8
12. NE mdblk	*	8	150	1.8
13. ES blk	*	600	-8	1.8
14. WN blk	*	-600	7	1.8
15. WS blk	*	-600	-8	1.8
16. EN blk	*	600	7	1.8
17. SE blk	*	8	-600	1.8
18. NW blk	*	-12	600	1.8
19. SW blk	*	-12	-600	1.8
20. NE blk	*	8	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	353.	1.5	.0	.7	.0	.4	.0	.0	.0	.0
2. NW	7.	1.5	.0	.3	.0	.8	.0	.0	.0	.0
3. SW	6.	1.6	.0	.3	.0	.7	.0	.0	.0	.0
4. NE	353.	1.5	.0	.7	.0	.3	.0	.0	.0	.0
5. ES mdblk	274.	.5	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	96.	.6	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	83.	.5	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	267.	.5	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	354.	1.5	.6	.0	.0	.1	.3	.0	.0	.0
10. NW mdblk	173.	1.6	.1	.3	.0	.8	.0	.0	.0	.0
11. SW mdblk	6.	1.4	.2	.1	.0	.1	.7	.0	.0	.0
12. NE mdblk	187.	1.5	.0	.7	.0	.3	.1	.0	.0	.0
13. ES blk	274.	.4	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	95.	.5	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	84.	.5	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	267.	.4	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	1.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	1.5	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-09 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
2. NW	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
3. SW	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
4. NE	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
5. ES mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7. WS mdblk	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
17. SE blk	.0	.0	.0	.0	.8	.0	.0	.4	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.5	1.0	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.4	.0	.0	.8	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S	Z0= 100. CM	ALT= 23. (M)
BRG= WORST CASE	VD= .0 CM/S	
CLAS= 7 (G)	VS= .0 CM/S	
MIXH= 1000. M	AMB= .0 PPM	
SIGTH= 10. DEGREES	TEMP= 10.0 DEGREE (C)	

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Orange AvNBA	7	-150	7	0	AG	464	6.4	.0	10.0
B. Orange AvNBD	7	0	7	150	AG	646	6.4	.0	10.0
C. Orange AvNBL	5	-150	0	0	AG	72	6.4	.0	10.0
D. Orange AvSBA	-7	150	-7	0	AG	576	6.4	.0	10.0
E. Orange AvSBD	-7	0	-7	-150	AG	605	6.4	.0	10.0
F. Orange AvSBL	-5	150	0	0	AG	92	6.4	.0	10.0
G. Willow StEBA	-150	-9	0	-9	AG	1852	6.4	.0	13.5
H. Willow StEBD	0	-9	150	-9	AG	1946	6.4	.0	11.8
I. Willow StEBL	-150	-5	0	0	AG	140	6.4	.0	10.0
J. Willow StWBA	150	9	0	9	AG	1447	6.4	.0	13.5
K. Willow StWBD	0	9	-150	9	AG	1530	6.4	.0	11.8
L. Willow StWBL	150	5	0	0	AG	84	6.4	.0	10.0
M. Orange AvNBA	7	-750	7	-150	AG	536	6.4	.0	10.0
N. Orange AvNBD	7	150	7	750	AG	646	6.4	.0	10.0
O. Orange AvSBA	-7	750	-7	150	AG	668	6.4	.0	10.0
P. Orange AvSBD	-7	-150	-7	-750	AG	605	6.4	.0	10.0
Q. Willow StEBA	-750	-9	-150	-9	AG	1992	6.4	.0	13.5
R. Willow StEBD	150	-9	750	-9	AG	1946	6.4	.0	11.8
S. Willow StWBA	750	9	150	9	AG	1531	6.4	.0	13.5
T. Willow StWBD	-150	9	-750	9	AG	1530	6.4	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-16	1.8
2. NW	-14	16	1.8
3. SW	-14	-17	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-16	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-17	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-16	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-17	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.7	.2	.0	.0	.0	.1	.0	1.2	.3
2. NW	98.	2.5	.0	.1	.0	.2	.0	.0	.0	.3
3. SW	82.	2.6	.1	.0	.0	.0	.2	.0	.2	1.2
4. NE	262.	2.5	.0	.3	.0	.1	.0	.0	.3	.0
5. ES mdblk	278.	2.5	.0	.0	.0	.0	.0	.0	.1	1.5
6. WN mdblk	98.	2.3	.0	.0	.0	.0	.0	.0	.3	.3
7. WS mdblk	82.	2.4	.0	.0	.0	.0	.0	.0	1.4	.1
8. EN mdblk	262.	2.2	.0	.0	.0	.0	.0	.0	.3	.2
9. SE mdblk	353.	1.2	.4	.0	.0	.0	.1	.0	.0	.0
10. NW mdblk	173.	1.3	.0	.1	.0	.5	.0	.0	.0	.0
11. SW mdblk	7.	1.3	.0	.1	.0	.0	.5	.0	.0	.0
12. NE mdblk	187.	1.3	.0	.6	.0	.1	.1	.0	.0	.0
13. ES blk	277.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.5	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	173.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	6.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	187.	1.2	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-10 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	I	J	K	L	M	N	O	P	Q	R	S	T
	*						CONC/LINK (PPM)						
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	*	.0	1.0	.2	.0	.0	.0	.0	.0	.0	.4	.2	.0
3. SW	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	*	.0	.2	1.0	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	*	.0	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.2
6. WN mdblk	*	.0	.1	1.2	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	*	.0	.2	.2	.0	.0	.0	.0	.0	.0	.1	.2	.0
8. EN mdblk	*	.0	1.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.4
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.5
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.3	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.6	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Walnut AvNBA	*	7	-150	7	0	*	AG	392	5.1	.0	10.0
B. Walnut AvNBD	*	7	0	7	150	*	AG	409	5.1	.0	10.0
C. Walnut AvNBL	*	5	-150	0	0	*	AG	116	5.1	.0	10.0
D. Walnut AvSBA	*	-5	150	-5	0	*	AG	202	5.1	.0	10.0
E. Walnut AvSBD	*	-5	0	-5	-150	*	AG	275	5.1	.0	10.0
F. Walnut AvSBL	*	-5	150	0	0	*	AG	63	5.1	.0	10.0
G. Spring StEBA	*	-150	-7	0	-7	*	AG	1097	5.1	.0	10.0
H. Spring StEBD	*	0	-7	150	-7	*	AG	1209	5.1	.0	10.0
I. Spring StEBL	*	-150	-5	0	0	*	AG	65	5.1	.0	10.0
J. Spring StWBA	*	150	7	0	7	*	AG	802	5.1	.0	10.0
K. Spring StWBD	*	0	7	-150	7	*	AG	896	5.1	.0	10.0
L. Spring StWBL	*	150	5	0	0	*	AG	52	5.1	.0	10.0
M. Walnut AvNBA	*	7	-750	7	-150	*	AG	508	5.1	.0	10.0
N. Walnut AvNBD	*	7	150	7	750	*	AG	409	5.1	.0	10.0
O. Walnut AvSBA	*	-5	750	-5	150	*	AG	265	5.1	.0	10.0
P. Walnut AvSBD	*	-5	-150	-5	-750	*	AG	275	5.1	.0	10.0
Q. Spring StEBA	*	-750	-7	-150	-7	*	AG	1162	5.1	.0	10.0
R. Spring StEBD	*	150	-7	750	-7	*	AG	1209	5.1	.0	10.0
S. Spring StWBA	*	750	7	150	7	*	AG	854	5.1	.0	10.0
T. Spring StWBD	*	-150	7	-750	7	*	AG	896	5.1	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-14	1.8
2. NW	-12	14	1.8
3. SW	-12	-14	1.8
4. NE	14	14	1.8
5. ES mdblk	150	-14	1.8
6. WN mdblk	-150	14	1.8
7. WS mdblk	-150	-14	1.8
8. EN mdblk	150	14	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-12	150	1.8
11. SW mdblk	-12	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-14	1.8
14. WN blk	-600	14	1.8
15. WS blk	-600	-14	1.8
16. EN blk	600	14	1.8
17. SE blk	14	-600	1.8
18. NW blk	-12	600	1.8
19. SW blk	-12	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	277.	1.5	.1	.0	.0	.0	.0	.0	.6	.1
2. NW	98.	1.3	.0	.0	.0	.0	.0	.0	.0	.2
3. SW	83.	1.5	.0	.0	.0	.0	.0	.0	.1	.7
4. NE	263.	1.3	.0	.1	.0	.0	.0	.0	.2	.0
5. ES mdblk	277.	1.4	.0	.0	.0	.0	.0	.0	.0	.8
6. WN mdblk	97.	1.2	.0	.0	.0	.0	.0	.0	.2	.1
7. WS mdblk	83.	1.3	.0	.0	.0	.0	.0	.0	.7	.0
8. EN mdblk	263.	1.2	.0	.0	.0	.0	.0	.0	.1	.2
9. SE mdblk	353.	.7	.3	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	173.	.6	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	7.	.6	.0	.0	.0	.0	.2	.0	.0	.0
12. NE mdblk	186.	.7	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	1.4	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	1.2	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.6	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	.6	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.6	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-11 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

CONC/LINK (PPM)

RECEPTOR	I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.2
2. NW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
3. SW	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0
4. NE	.0	.0	.5	.0	.0	.0	.0	.0	.2	.0	.0	.1
5. ES mdblk	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. WN mdblk	.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0
7. WS mdblk	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8. EN mdblk	.0	.6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
9. SE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.3	.0
14. WN blk	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.7
15. WS blk	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.3
16. EN blk	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0
17. SE blk	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0
18. NW blk	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
19. SW blk	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0
20. NE blk	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: LB Sports Complex
RUN: 2006wP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	23. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	10. DEGREES	TEMP=	10.0 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Walnut AvNBA	*	7	-150	7	0	*	AG	525	5.6	.0	10.0
B. Walnut AvNBD	*	7	0	7	150	*	AG	439	5.6	.0	10.0
C. Walnut AvNBL	*	5	-150	0	0	*	AG	79	5.6	.0	10.0
D. Walnut AvSBA	*	-7	150	-7	0	*	AG	243	5.6	.0	10.0
E. Walnut AvSBD	*	-7	0	-7	-150	*	AG	391	5.6	.0	10.0
F. Walnut AvSBL	*	-5	150	0	0	*	AG	90	5.6	.0	10.0
G. Willow StEBA	*	-150	-9	0	-9	*	AG	1890	5.6	.0	13.5
H. Willow StEBD	*	0	-9	150	-9	*	AG	2129	5.6	.0	11.8
I. Willow StEBL	*	-150	-5	0	0	*	AG	70	5.6	.0	10.0
J. Willow StWBA	*	150	9	0	9	*	AG	1530	5.6	.0	13.5
K. Willow StWBD	*	0	9	-150	9	*	AG	1595	5.6	.0	11.8
L. Willow StWBL	*	150	5	0	0	*	AG	127	5.6	.0	10.0
M. Walnut AvNBA	*	7	-750	7	-150	*	AG	604	5.6	.0	10.0
N. Walnut AvNBD	*	7	150	7	750	*	AG	439	5.6	.0	10.0
O. Walnut AvSBA	*	-7	750	-7	150	*	AG	333	5.6	.0	10.0
P. Walnut AvSBD	*	-7	-150	-7	-750	*	AG	391	5.6	.0	10.0
Q. Willow StEBA	*	-750	-9	-150	-9	*	AG	1960	5.6	.0	13.5
R. Willow StEBD	*	150	-9	750	-9	*	AG	2129	5.6	.0	11.8
S. Willow StWBA	*	750	9	150	9	*	AG	1657	5.6	.0	13.5
T. Willow StWBD	*	-150	9	-750	9	*	AG	1595	5.6	.0	11.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: LB Sports Complex
RUN: 2006wP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. SE	14	-16	1.8
2. NW	-14	16	1.8
3. SW	-14	-17	1.8
4. NE	14	17	1.8
5. ES mdblk	150	-16	1.8
6. WN mdblk	-150	16	1.8
7. WS mdblk	-150	-17	1.8
8. EN mdblk	150	17	1.8
9. SE mdblk	14	-150	1.8
10. NW mdblk	-14	150	1.8
11. SW mdblk	-14	-150	1.8
12. NE mdblk	14	150	1.8
13. ES blk	600	-16	1.8
14. WN blk	-600	16	1.8
15. WS blk	-600	-17	1.8
16. EN blk	600	17	1.8
17. SE blk	14	-600	1.8
18. NW blk	-14	600	1.8
19. SW blk	-14	-600	1.8
20. NE blk	14	600	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: LB Sports Complex
RUN: 2006wP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. SE	278.	2.4	.2	.0	.0	.0	.0	.0	1.1	.3
2. NW	98.	2.2	.0	.0	.0	.0	.0	.0	.0	.3
3. SW	82.	2.4	.1	.0	.0	.0	.1	.0	.2	1.1
4. NE	262.	2.1	.0	.2	.0	.0	.0	.0	.2	.0
5. ES mdblk	278.	2.3	.0	.0	.0	.0	.0	.0	.1	1.4
6. WN mdblk	98.	2.1	.0	.0	.0	.0	.0	.0	.2	.2
7. WS mdblk	82.	2.2	.0	.0	.0	.0	.0	.0	1.3	.1
8. EN mdblk	262.	2.0	.0	.0	.0	.0	.0	.0	.2	.2
9. SE mdblk	353.	1.0	.4	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	174.	.9	.0	.0	.0	.2	.0	.0	.0	.0
11. SW mdblk	7.	.9	.0	.0	.0	.0	.3	.0	.0	.0
12. NE mdblk	186.	.9	.0	.3	.0	.0	.0	.0	.0	.0
13. ES blk	277.	2.3	.0	.0	.0	.0	.0	.0	.0	.0
14. WN blk	97.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
15. WS blk	83.	2.2	.0	.0	.0	.0	.0	.0	.0	.0
16. EN blk	263.	2.1	.0	.0	.0	.0	.0	.0	.0	.0
17. SE blk	354.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
18. NW blk	174.	.8	.0	.0	.0	.0	.0	.0	.0	.0
19. SW blk	7.	.9	.0	.0	.0	.0	.0	.0	.0	.0
20. NE blk	186.	.8	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: LB Sports Complex
RUN: 2006wP-12 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. SE	*	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.3
2. NW	*	.0	.9	.2	.0	.0	.0	.0	.0	.0	.3	.2	.0
3. SW	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0
4. NE	*	.0	.2	.9	.0	.0	.0	.0	.0	.4	.0	.0	.2
5. ES mdblk	*	.0	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1
6. WN mdblk	*	.0	.1	1.1	.0	.0	.0	.0	.0	.0	.2	.0	.0
7. WS mdblk	*	.0	.2	.2	.0	.0	.0	.0	.0	.0	.1	.1	.0
8. EN mdblk	*	.0	1.0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
9. SE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10. NW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11. SW mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12. NE mdblk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. ES blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.5	.0
14. WN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.3
15. WS blk	*	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.4
16. EN blk	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.3	.0
17. SE blk	*	.0	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0
18. NW blk	*	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0
19. SW blk	*	.0	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0
20. NE blk	*	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0