

Table 4.2-2 shows pollutant levels, the State and federal standards, and the number of exceedances recorded at the Lynwood Monitoring Station compared to the Metropolitan General Forecast Area (Forecast Area) from 2005 to 2007.

The CAAQS for the criteria pollutants are also shown in the table. As **Table 4.2-2** indicates, criteria pollutants CO, NO₂, and SO₂ did not exceed the CAAQS during the 2005 to 2007 period. The one-hour State standard for O₃ was exceeded two times during the three-year period, and the eight-hour State standard for O₃ was exceeded three times. The 24-hour State standard for PM₁₀ was not exceeded during the three-year period but the annual State standard for PM_{2.5} was exceeded each year. When compared to the Forecast Area, the Lynwood Monitoring Station has recorded higher concentrations for CO and lower concentrations for O₃. NO₂, PM₁₀, PM_{2.5}, and SO₂, concentrations at the Lynwood Monitoring Station were similar for the Forecast Area.

TABLE 4.2-2: 2005-2007 AMBIENT AIR QUALITY DATA IN THE PROJECT VICINITY							
Pollutant	Pollutant Concentration & Standards	Lynwood and Downtown Los Angeles Monitoring Stations /a/			Metropolitan General Forecast Area /b,c/		
		Number of Days Above State Standard					
		2005	2006	2007	2005	2006	2007
Ozone	Maximum 1-hr Concentration (ppm)	0.11	0.09	0.10	0.11	0.12	0.12
	Days > 0.09 ppm (State 1-hr standard)	1	0	1	1	5	4
	Maximum 8-hr Concentration (ppm)	0.08	0.07	0.08	0.08	0.09	0.10
	Days > 0.07 ppm (State 8-hr standard)	1	0	2	1	4	6
Carbon Monoxide	Maximum 1-hr concentration (ppm)	7	8	8	6	6	6
	Days > 20 ppm (State 1-hr standard)	0	0	0	0	0	0
	Maximum 8-hr concentration (ppm)	5.9	6.4	5.1	4.0	4.0	3.5
	Days > 9.0 ppm (State 8-hr standard)	0	0	0	0	0	0
Nitrogen Dioxide	Maximum 1-hr Concentration (ppm)	0.11	0.03	0.03	0.03	0.03	0.03
	Days > 0.18 ppm (State 1-hr standard)	0	0	0	0	0	0
PM ₁₀	Maximum 24-hr concentration (µg/m ³)	30	30	33	30	30	33
	Estimated Days > 50 µg/m ³ (State 24-hr standard)	0	0	0	0	0	0
PM _{2.5}	Annual Arithmetic Mean (µg/m ³)	18	17	16	18	16	16
	Exceed State Standard (12 µg/m ³)?	Yes	Yes	Yes	Yes	Yes	Yes
Sulfur Dioxide	Maximum 24-hr Concentration (ppm)	0.01	0.001	0.001	0.01	0.001	0.001
	Days > 0.04 ppm (State 24-hr standard)	0	0	0	0	0	0

Note: SCAQMD Historical Data for the year 2008 was not available when this analysis was completed.
/a/ O₃, CO, NO₂, and PM_{2.5} data were obtained from the Lynwood Monitoring Station and SO₂ and PM₁₀ data were obtained from the Downtown Los Angeles Monitoring Station.
/b/ The Metropolitan General Forecast Area includes Coastal Los Angeles County, Southeast Los Angeles County, South Central Los Angeles County, and North Orange County air monitoring areas of the SCAQMD.
/c/ An average of the maximum concentration of each criteria pollutant of the air monitoring areas of the Coastal General Forecast Area was used to represent maximum concentrations in the Coastal General Forecast Area.
SOURCE: SCAQMD, Historical Data by Year, available at <http://www.aqmd.gov/smog/historicaldata.htm>, accessed August 18, 2009.

Existing Carbon Monoxide Concentrations at Project Area Intersections

There is a direct relationship between traffic/circulation congestion and CO impacts since exhaust fumes from vehicular traffic are the primary source of CO. CO is a localized gas that dissipates very quickly under normal meteorological conditions. Therefore, CO concentrations decrease substantially as distance from the source (intersection) increases. The highest CO concentrations are typically found in areas directly adjacent to congested roadway intersections.