

Section 5: Ambient Air Quality Monitoring

5.1 Attainment of the 1-Hour Ozone Standard

The monitoring site in Lafayette Parish (EPA AQS code 22 055 0003) has been in operation since October 1, 1988 and has been operated in accordance with the requirements of 40 CFR 58 and the EPA-approved Quality Assurance Program Plan. The NAAQS for 1-hour ozone is 120 ppb based on a 1-hour average sample. Because of rounding, a 1-hour monitor reading of 125 ppb is considered an exceedance of the 1-hour ozone standard, whereas a reading of 124 ppb is considered as meeting the standard.

The Lafayette site continued to monitor attainment with the 1-hour ozone NAAQS through the end of calendar year 2005. The most recent three years of ozone monitoring data (2003-2005) for Lafayette Parish indicate an ozone design value of 90 ppb for 2003, 86 ppb for 2004 and 94 ppb for 2005. EPA revoked the 1-hour ozone standard effective June 15, 2005.

5.2 Attainment of the 8-Hour Ozone Standard

The NAAQS for 8-hour ozone is 80 ppb based on the three-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area. An 8-hour monitor reading of 85 ppb is considered an exceedance of the 8-hour ozone standard and a reading of 84 ppb is considered as meeting the standard. Figure 2 illustrates the trend in 8-hour ozone design values in ppb for the Lafayette site from 1998 through 2005.

**Figure 2: LAFAYETTE SITE
OZONE 8-HOUR DESIGN VALUE
1998 - 2005**

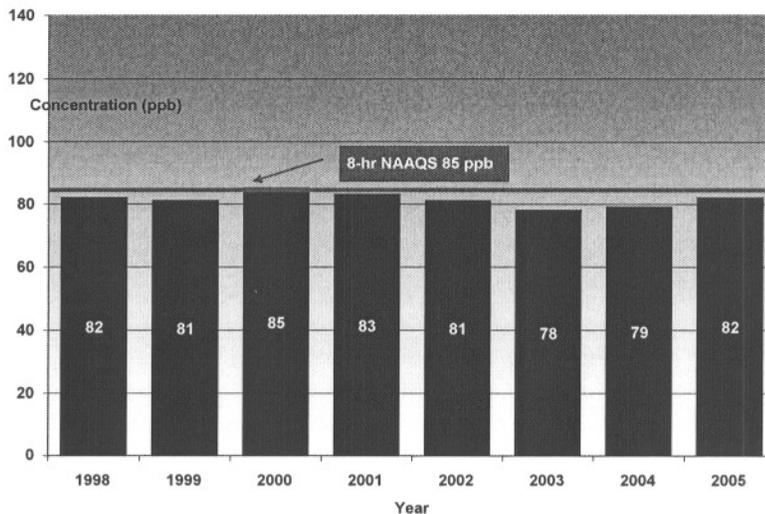


Table 5-1 indicates that the area has monitored attainment for the latest five complete three-year periods.

**Table 5-1 Lafayette Parish
8-Hour Ozone Design Values 1998-2005**

Year	Highest	2nd	3rd	4th	# of days	Design Value (ppb)
1998	0.092	0.089	0.085	0.084	3	0.082
1999	0.090	0.090	0.086	0.081	3	0.081
2000	0.113	0.110	0.095	0.092	8	0.085
1999	0.090	0.090	0.086	0.081	3	0.081
2000	0.113	0.110	0.095	0.092	8	0.085
2001	0.085	0.081	0.078	0.077	1	0.083
2000	0.113	0.110	0.095	0.092	8	0.085
2001	0.085	0.081	0.078	0.077	1	0.083
2002	0.083	0.081	0.079	0.075	0	0.081
2001	0.085	0.081	0.078	0.077	1	0.083
2002	0.083	0.081	0.079	0.075	0	0.083
2003	0.088	0.087	0.085	0.084	3	0.078
2002	0.083	0.081	0.079	0.075	0	0.081
2003	0.088	0.087	0.085	0.084	3	0.078
2004	0.091	0.083	0.082	0.078	1	0.079
2003	0.088	0.087	0.085	0.084	3	0.078
2004	0.091	0.083	0.082	0.078	1	0.079
2005	0.089	0.086	0.085	0.085	4	0.082