

Section 5: Ambient Air Quality Monitoring

5.1 Attainment of the 1-Hour Ozone Standard

The Convent monitoring site in St. James Parish (EPA AQS code 22 093 0002) 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 Convent site continued to monitor attainment with the 1-hour ozone NAAQS through the end of calendar year 2005. EPA revoked the 1-hour ozone standard effective June 15, 2005. The most recent three years of ozone monitoring data (2003-2005) for St. James Parish indicate an ozone design value of 104 ppb for 2003 and 2004; and 103 ppb for 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 is indicative of the downward trend in ozone for the St. James Maintenance Area.

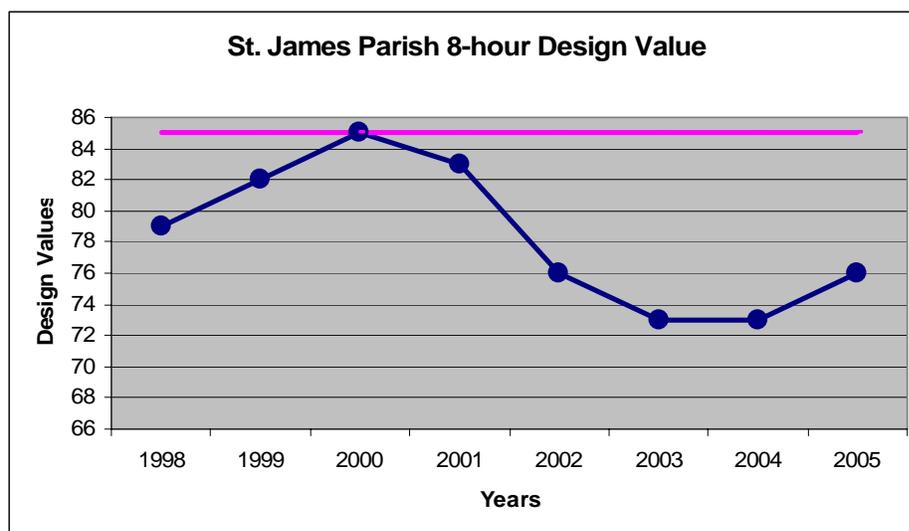


Figure 2: St. James 8-hour Ozone Values

Table 5-1 illustrates the trend in 8-hour ozone design values in ppb for the St. James Maintenance area from 1998 through 2005. Since 2000, in general the area has experienced a downward trend in design values.

**Table 5-1 St. James Parish
8-Hour Ozone Design Values 1998-2005**

| | Highest | 2nd | 3rd | 4th | # of days > 84 ppb | Design Value |
|------|----------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------|
| 1998 | 0.091 | 0.086 | 0.080 | 0.079 | 2 | 0.079 |
| 1999 | 0.102 | 0.093 | 0.092 | 0.091 | 7 | 0.082 |
| 2000 | 0.093 | 0.087 | 0.087 | 0.085 | 4 | 0.085 |
| | | | | | | |
| 1999 | 0.102 | 0.093 | 0.092 | 0.091 | 7 | 0.082 |
| 2000 | 0.093 | 0.087 | 0.087 | 0.085 | 4 | 0.085 |
| 2001 | 0.085 | 0.079 | 0.074 | 0.074 | 1 | 0.083 |
| | | | | | | |
| 2000 | 0.093 | 0.087 | 0.087 | 0.085 | 4 | 0.085 |
| 2001 | 0.085 | 0.079 | 0.074 | 0.074 | 1 | 0.083 |
| 2002 | 0.092 | 0.075 | 0.070 | 0.069 | 1 | 0.076 |
| | | | | | | |
| 2001 | 0.085 | 0.079 | 0.074 | 0.074 | 1 | 0.083 |
| 2002 | 0.092 | 0.075 | 0.070 | 0.069 | 1 | 0.076 |
| 2003 | 0.090 | 0.081 | 0.081 | 0.078 | 1 | 0.073 |
| | | | | | | |
| 2002 | 0.092 | 0.075 | 0.070 | 0.069 | 1 | 0.076 |
| 2003 | 0.090 | 0.081 | 0.081 | 0.078 | 1 | 0.073 |
| 2004 | 0.076 | 0.074 | 0.072 | 0.072 | 0 | 0.073 |
| | | | | | | |
| 2003 | 0.090 | 0.081 | 0.081 | 0.078 | 1 | 0.073 |
| 2004 | 0.076 | 0.074 | 0.072 | 0.072 | 0 | 0.073 |
| 2005 | 0.088 | 0.083 | 0.078 | 0.078 | 1 | 0.076 |