

Section 3: Attainment Inventory

3.1 Inventory Description

EPA Guidance dated May 20, 2005 suggests that the attainment inventory should be based on actual “typical summer day” emissions of VOC and NO_x. For purposes of the attainment emissions inventory, the state is using 2002 as the baseline attainment year since it is one of the three years (2001, 2002, 2003) on which the 8-hour ozone designation was based. Table 3-1 summarizes the 2002 VOC and NO_x emissions totals by source categories which comprise the attainment inventory for Lafayette Parish. The source categories include stationary point, non-point, non-road mobile, and on-road mobile.

Table 3-1 Lafayette Parish Attainment Inventory - 2002

Sources	VOC (tpd)	NO _x (tpd)
Point	0.54	2.41
Non-Point	9.77	11.15
Non-road Mobile	9.26	5.57
On-road Mobile	7.66	10.25
Totals	27.23	29.38

3.2 Projected Emissions Inventory

The 2002 attainment inventory has been grown for the final plan year of 2014 and for the interim years of 2008 and 2011. The 2002 emissions inventory was submitted to EPA for the National Emissions Inventory to comply with the requirements of the Consolidated Emissions Reporting Rule (CERR). Point source and non-point growth projections were derived from EGAS 4.0. Non-road mobile growth projections for SCC codes 2275, 2280, and 2285 were derived from EGAS 4.0; other non-road mobile growth projections were derived from the National Mobile Inventory Model (NMIM). On-road mobile projections were discussed in section 2.4.

3.3 Emissions Inventory Summary

Tables 3-2 and 3-3 summarize the 2002 attainment/baseline year and interim emission projections for the years 2008, 2011 and 2014 for Lafayette Parish. In 2002 VOC emissions totaled approximately 27.23 tpd and NO_x emissions totaled approximately 29.38 tpd. Emission projections for future years indicate a downward trend in VOC and NO_x through 2014.

Table 3-2 Lafayette Parish: VOC Emissions Inventory Baseline (2002) and Projections (2008, 2011, 2014) in Tons per Day

Sources	2002 (tpd)	2008 (tpd)	2011 (tpd)	2014 (tpd)
Point	0.54	0.57	0.60	0.62
Non-point	9.77	10.38	10.74	11.09
Non-road Mobile	9.26	6.34	5.64	4.91
On-road Mobile	7.66	4.95	3.81	3.13
Total (tpd)	27.23	22.24	20.79	19.75

Table 3-3 Lafayette Parish: NOx Emissions Inventory Baseline (2002) and Projections (2008, 2011, 2014) in Tons per Day

Sources	2002 (tpd)	2008 (tpd)	2011 (tpd)	2014 (tpd)
Point*	2.41	1.82	2.32	2.19
Non-point	11.15	11.79	12.18	12.55
Non-road Mobile	5.57	3.97	3.43	2.87
On-road Mobile	10.25	6.60	4.81	3.61
Total (tpd)	29.38	24.18	22.74	21.22

* If a point source is permitted for multiple fuels (gas and oil), the EGAS 4.0 model run is provided data using both fuels equally. Although this method provided fluctuations in emissions, the total projections indicate a downward trend.