

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, and 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 Grant Parish. The source categories include stationary point, non-point, non-road mobile, and on-road mobile.

Table 3-1 Grant Parish Attainment Inventory - 2002

Sources	VOC (tpd)	NO _x (tpd)
Point	0.66	1.85
Non-point	1.57	0.61
Non-road Mobile	5.49	1.56
On-road Mobile	1.27	1.71
Totals	8.99	5.73

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 CERR. Point source and non-point source 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.

**Table 3-2 Grant Parish: VOC Emissions Inventory Baseline (2002)
and Projections (2008, 2011 and 2014)**

	2002	2008	2011	2014
Point	0.66	0.83	0.91	0.98
Non-point	1.57	1.62	1.63	1.66
Non-road Mobile	5.49	4.66	4.20	3.83
On-road Mobile	1.27	1.12	0.83	0.62
Total	8.99	8.23	7.57	7.09

**Table 3-3 Grant Parish: NOx Emissions Inventory Baseline (2002)
and Projections (2008, 2011 and 2014)**

	2002	2008	2011	2014
Point	1.85	1.96	2.01	2.06
Non-point	0.61	0.64	0.65	0.67
Non-road Mobile	1.56	1.41	1.33	1.23
On-road Mobile	1.71	1.12	0.83	0.62
Total	5.73	5.13	4.82	4.58

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 Grant Parish. In 2002 VOC emissions totaled approximately 9 tpd and NOx emissions totaled approximately 6 tpd. Emission projections for future years reflect a downward trend in VOC and NOx emissions through 2014, which is the last year of the plan.

3.4 Reid Vapor Pressure Emissions Comparisons

On-road emissions estimates for this maintenance plan update are modeled with both 7.8 psi Reid Vapor Pressure (RVP) gasoline (Appendix B) and 9.0 RVP gasoline for three projection years: 2008, 2011, and 2014 (Appendix C). This modeling shows an insignificant increase in VOC emissions. Clearly, the relatively small increase in VOC emissions from using 9.0 RVP fuel does not obviate the overall demonstration of maintenance in the plan. Furthermore, Table 3-4 below demonstrates that all projection-year VOC levels with 9.0 psi RVP are less than the 2002 attainment year VOC on-road emissions inventory modeled with 7.8 RVP.

**Table 3-4 RVP Comparison
Effect on VOC Emissions**

	7.8 RVP	9.0 RVP
Year	VOC (tpd)	VOC (tpd)
2002	1.27	N/A
2008	0.80	0.90
2011	0.63	0.70
2014	0.52	0.57