

8-Hour O3

DESIGN VALUES

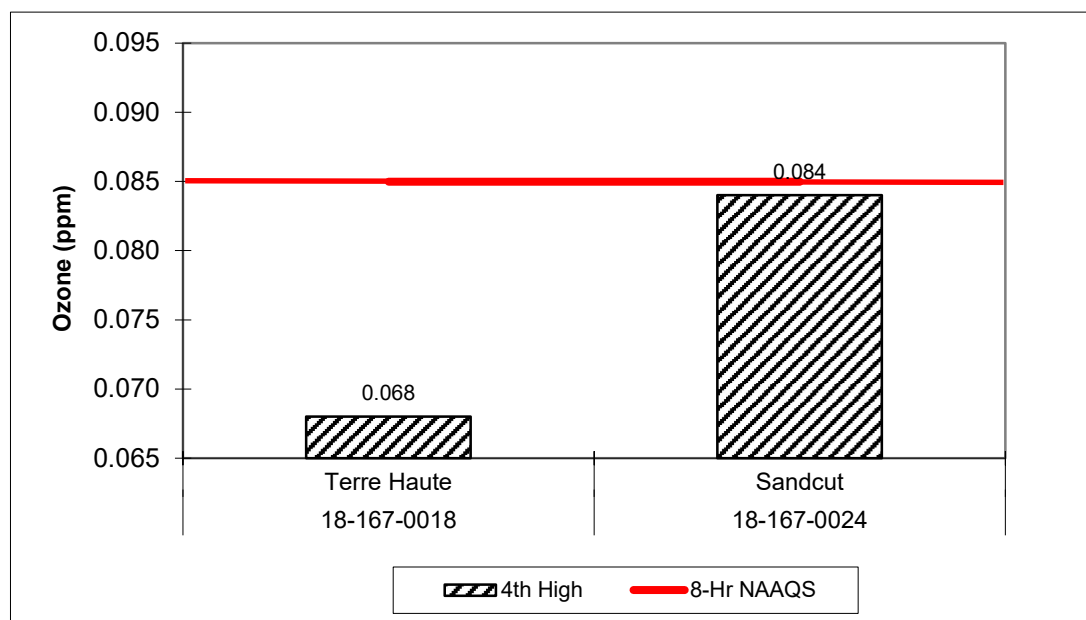
2002-2004

VIGO COUNTY BASIC NONATTAINMENT AREA

AIRS ID	CITY	COUNTY	SITE NAME	ADDRESS	YEAR	1st	2nd	3rd	4th	4th High Avg
18-167-0018	Terre Haute	Vigo	Terre Haute	961 N. LAFAYETTE AV	2002	<b>0.091</b>	<b>0.085</b>	0.083	0.082	0.068
18-167-0018	Terre Haute	Vigo	Terre Haute	961 N. LAFAYETTE AV	2003	0.076	0.069	0.067	0.066	
18-167-0018	Terre Haute	Vigo	Terre Haute	961 N. LAFAYETTE AV	2004	0.061	0.060	0.058	0.057	
18-167-0024	Sandcut	Vigo	Sandcut	SANDCUT	2002	<b>0.104</b>	<b>0.104</b>	0.101	0.099	0.084
18-167-0024	Sandcut	Vigo	Sandcut	SANDCUT	2003	0.09	0.088	0.081	0.08	
18-167-0024	Sandcut	Vigo	Sandcut	SANDCUT	2004	0.078	0.073	0.072	0.072	

4th highest values - design values

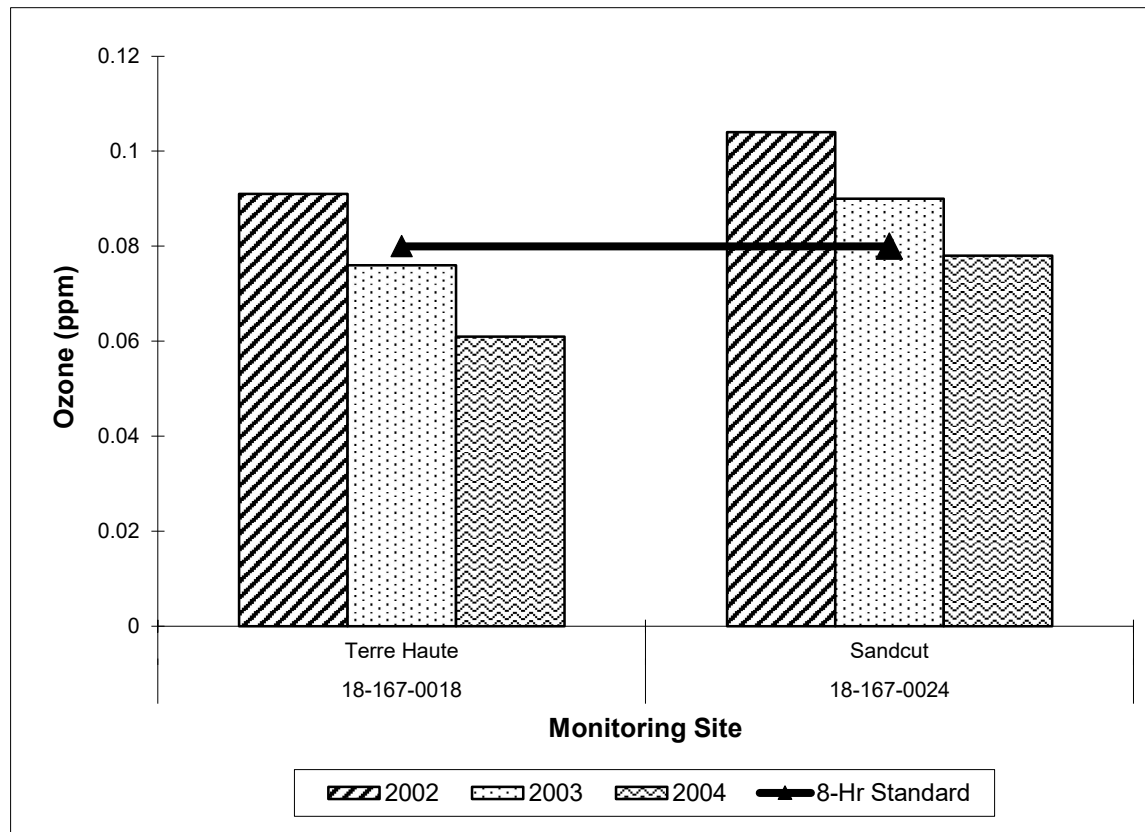
18-167-0018	Terre Haute	Vigo	Terre Haute	961 N. LAFAYETTE AV	2000	<b>0.068</b>	0.085
18-167-0024	Sandcut	Vigo	Sandcut	SANDCUT	2000	<b>0.084</b>	0.085



# VIGO COUNTY BASIC NONATTAINMENT AREA

First Highs 2002-2004

AIRS ID	CITY	COUNTY		ADDRESS	2002	2003	2004	8-Hr Standard
18-167-0018	Terre Haute	Vigo	Terre Haute	961 N. LAFAYETTE AV	0.091	0.076	0.061	0.085
18-167-0024	Sandcut	Vigo	Sandcut	SANDCUT	0.104	0.090	0.078	0.085



## **APPENDIX B**

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### **HISTORIC AND PROJECTED EMISSION INVENTORIES**

**NOx Point Source Emissions for West Central Indiana, 1996 – 2002**

<b>NOx</b>	1996	1998	1999	2000	2001	2002
<b>Vigo</b>	<b>806</b>	<b>11024</b>	<b>10560</b>	<b>12068</b>	<b>11454</b>	<b>11715</b>
Clay	0	0	0	0	1	0
Parke	2519	2014	2246	2246	1878	1500
Sullivan	18978	16227	16187	16235	16075	14136
Vermillion	11083	10924	11223	11437	11350	9001
<b>Total</b>	<b>32580</b>	<b>29165</b>	<b>29656</b>	<b>29918</b>	<b>29304</b>	<b>24637</b>

**VOC Point Source Emissions for West Central Indiana, 1996 – 2002**

<b>VOC</b>	1996	1998	1999	2000	2001	2002
<b>Vigo</b>	<b>1930</b>	<b>2209</b>	<b>2535</b>	<b>2227</b>	<b>2574</b>	<b>2349</b>
Clay	152	215	235	177	57	68
Parke	56	42	59	51	40	27
Sullivan	100	145	147	96	93	95
Vermillion	87	1096	1513	1355	1228	935
<b>Total</b>	<b>395</b>	<b>1498</b>	<b>1954</b>	<b>1679</b>	<b>1418</b>	<b>1125</b>

**NOx Emissions from Electric Generating Units, 1997 - 2004**

<b>County</b>	<b>Plant</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Gibson</b>	Cinergy-Gibson	20920	21721	21395	19086	18138	13903	11324	7552
<b>Greene</b>	Worthington Generation	Not Reported	Not Reported	Not Reported	Not Reported	22	34	19	18
<b>Knox</b>	Cinergy-Edwardsport	1079	1168	1946	1258	1084	1013	1085	250
	Wheatland Generating	Not Reported	Not Reported	Not Reported	Not Reported	70	58	1	1
<b>Pike</b>	Hoosier Energy-Ratts Station	1223	1752	1542	1961	1890	1549	1669	1270
	IPL-Petersburg	8257	10156	7817	8608	9809	8144	7683	2762
<b>Sullivan</b>	Hoosier Energy-Merom	6866	6982	7110	6283	6739	5714	5401	1070
<b>Vigo</b>	Cinergy-Wabash River	3888	4902	4037	4840	5057	4661	4470	2937
	Mirant Sugar Creek	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	9	253	24
<b>Total</b>		<b>42233</b>	<b>46681</b>	<b>43845</b>	<b>42036</b>	<b>42808</b>	<b>35085</b>	<b>31905</b>	<b>15884</b>

**Total NOx Emissions from Electric Generating Units  
West Central Indiana, 1997 - 2004**

<b>Year</b>	<b>NOx Tons per Ozone Season</b>
1997	42233
1998	46681
1999	43845
2000	42036
2001	42808
2002	35085
2003	31905
2004	15884

**1996-2002 NOx and VOC Emissions Trends for All Sources in Vigo County**

<b>NOx</b>	<b>1996</b>	<b>1999</b>	<b>2002</b>
<b>Area</b>	1.49	1.45	1.30
<b>Nonroad</b>	6.74	5.28	2.53
<b>Onroad</b>	11.03	11.67	11.1
<b>Point</b>	1.75	26.65	33.63
<b>Total</b>	21.02	45.04	48.56

<b>VOC</b>	<b>1996</b>	<b>1999</b>	<b>2002</b>
<b>Area</b>	12.61	14.18	8.92
<b>Nonroad</b>	2.65	2.32	2.80
<b>Onroad</b>	9.43	9.29	7.46
<b>Point</b>	5.39	7.36	6.52
<b>Total</b>	30.08	33.15	25.69

## 2002 Base Year Emissions Inventory and Projected Emissions Inventory for VOC

### 2002 VOC

County	Area	Non-Road	Mobile	Point	Total
Clay	3.51	1.10	5.56	0.27	10.45
Parke	2.91	0.92	1.78	0.04	5.65
Sullivan	3.58	1.16	2.73	0.28	7.76
Vermillion	2.25	0.75	3.18	2.57	8.76
Vigo	8.92	2.80	7.46	6.52	25.69

### 2010 VOC

County	Area	Non-Road	Mobile	Point	Total
Clay	4.09	0.71	3.39	0.41	8.60
Parke	3.44	0.79	1.00	0.05	5.29
Sullivan	4.22	0.80	1.50	0.32	6.84
Vermillion	2.60	0.67	1.51	2.73	7.51
Vigo	10.25	1.93	3.84	7.24	23.26

### 2015 VOC

County	Area	Non-Road	Mobile	Point	Total
Clay	4.47	0.63	2.07	0.50	7.67
Parke	3.78	0.62	0.63	0.05	5.09
Sullivan	4.62	0.69	0.93	0.34	6.58
Vermillion	2.85	0.52	0.85	3.09	7.30
Vigo	11.21	1.67	2.58	8.42	23.88

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# **Terre Haute / Vigo County Long Range Plan Transportation Plan for Year 2030**

## **Air Quality Conformity Documentation**

Prepared for the  
**West Central Indiana Economic Development District, Inc.**

**April 2005**

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## INTRODUCTION

Vigo County, Indiana was designated as a basic non attainment area for ozone under the 8-hour ozone standard in June of 2004. With this designation, the West Central Indiana Economic Development District, serving as the Metropolitan Planning Organization for the Terre Haute - Vigo County area, is the agency responsible for conducting the air quality analyses. All plans, programs and projects must be reviewed for conformity with the standards to assure that they do not exceed the established budgets as established in the State Implementation Plan (SIP).

In general, examinations for conformity have two major components: (1) an air quality analysis to determine that air pollutant emissions do not exceed the budgets for VOCs and NO<sub>x</sub> set in the State Implementation Plan (SIP) and (2) a monitoring of the progress in implementation of the Transportation Control Measures (TCMs) contained in the SIP. Vigo County, as a newly designated non-attainment area, does not yet have an established emissions budget based upon a SIP. SIP development is not required to be completed until 3 years after an area is designated, in this case 3 years after June 2004, though it is possible that the SIP may be prepared sometime in 2005. After consultation with the state air agency (IDEM), US EPA, FHWA, and INDOT, it was agreed that an interim “no greater than” year 2002 baseline test would be used for the current Vigo County conformity analysis. Also, since no SIP has been established for Vigo County, there are no approved TCMs to be evaluated at this time. Therefore, it was possible to show conformity of the 2030 Transportation Plan simply by determining that the air pollutant emissions do not exceed the 2002 emissions.

The air quality analysis involved four procedures. First, a travel model using the TransCAD software was used to determine the vehicle-miles-traveled (VMT) for each of the analysis years (2002, 2010, 2015, 2020, and 2030). The VMT was then adjusted using factors which were derived for the base year (2002). These factors allow the model output to be reconciled with estimates of VMT from the Highway Performance Monitoring System (HPMS). Second, a post processing procedure was used to compute speeds, for each hour of the day, for each facility type, and from that data, Mobile 6.2 input files were created. Third, the Mobile 6.2 emission factor model was used to determine the emission factors for VOCs and NO<sub>x</sub>. Fourth, the VMT by functional classification was then multiplied by the emission factors to determine the emissions. Further explanation of the components of the analysis is documented in this report.

## FEDERAL CONFORMITY REQUIREMENTS

Federal Regulations for Metropolitan Planning in 23 CFR (Code of Federal Regulations) Part 450 require that federally funded highway and transit projects be included in a conforming plan and Transportation Improvement Program (TIP). 40 CFR Part 93, amended August 15, 1997, outlines the requirements for making conformity determinations under Subpart A. Applicable requirements are listed below.

- 1. The Transportation Plan must specifically describe the transportation system envisioned for certain future years, which are called horizon years.*
  - *The horizon years may be no more than 10 years apart.*
  - *The first horizon year may not be more than 10 years from the base year used to validate the travel demand model.*
  - *If the attainment year is in the time span of the Transportation Plan, the attainment year must be a horizon year.*
  - *The last horizon year must be the last year of the Transportation Plan's forecast year.*

The 2030 Transportation Plan lists specific projects by time periods that meet this requirement. Traffic modeling for the conformity analysis was done for the years 2002, 2010, 2015, 2020, and 2030. The attainment year for SIP development will be 2015, thus this additional year was included.

- 2. The Transportation Plan will quantify and document the demographic and employment factors influencing the expected transportation demand; and the highway and transit system shall be described in terms of the regionally significant additions or modifications to the existing transportation network, which the transportation plan envisions to be operational in the horizon years.*

The documentation of how travel demand is estimated using existing and forecasted demographic and employment data is described in the March, 2005 Travel Demand Model Technical Documentation included as an appendix of the 2030 Transportation Plan. Regionally significant additions or modifications to the transportation system included in the financially constrained transportation plan are listed by time period in the next section of this report. Non-capacity increasing projects, which were not used in the conformity analysis, are listed in the main Transportation Plan document.

- 3. The Transportation Plan must be financially reasonable and the TIP must be fiscally constrained consistent with the U.S. DOT's metropolitan planning regulations at 23 CFR part 450 in order to be found in conformity.*

All projects included in the conformity analysis are fiscally constrained within the plan horizon. A list of illustrative (fiscally unconstrained) projects is also included in the main Transportation Plan document.

*4. The conformity determination must be based on the latest emission estimation model available.*

This analysis uses the US EPA approved Mobile 6.2 software, which is the latest emission model available for use in Indiana.

*5. The MPO must make the conformity determination according to the interagency consultation procedures required in 40 CFR Parts 51 and 93 (sections 51.390 and 93.105), and according to the public involvement procedures established by the MPO in compliance with 23 CFR Part 450.*

All major decisions relating to methodology, assumptions, and data used in the conformity analysis have been made via the interagency consultation process. Parties to the interagency consultation process include WCIEDD, INDOT, IDEM, FHWA, US EPA, and FTA, each has had the opportunity to participate in the consultation meetings. The plan update process has also included a public involvement component that is consistent with the MPO's currently adopted public involvement procedures.

*6. The Transportation Plan must provide for the timely implementation of Traffic Control Measures (TCM) from the applicable State Implementation Plan (SIP). Nothing in the plan may interfere with the implementation of any TCM in the applicable implementation plan.*

An implementation plan has not yet been developed. No TCMs are currently applicable in the Terre Haute/Vigo County MPO area.

*7. The Transportation Plan must be consistent with the motor vehicle emissions budget in the applicable State Implementation Plan (SIP).*

Vigo County was newly designated as a Basic Non-Attainment Area for Ozone in June 2004. A SIP has not yet been developed for this county, and thus a motor vehicle budget has not been created. During the interagency consultation process, an agreement was reached that the conformity determination for this Transportation Plan update would be done using an interim test whereby no future horizon year can exceed 2002 emissions.

*8. The regional emissions analysis shall estimate emissions from the entire transportation system, including all regionally significant projects contained in the Transportation Plan and all other regionally significant highway and transit projects expected in the non-attainment area in the time frame of the Transportation Plan.*

All regionally significant projects within Vigo County have been included in the 2030 Transportation Plan list of projects. Those projects that involve an increase in a regionally significant increase in capacity have been included in the conformity analysis.

9. The emissions analysis methodology shall meet the requirement of section 93.122: (a) Regional emissions analysis for the Transportation Plan shall include all regionally significant projects expected in the maintenance area. Projects that are not regionally significant are not required to be explicitly modeled, but VMT from such projects must be estimated in accordance with reasonable professional practices. The effects of TCM's and similar projects that are not regionally significant may also be estimated in accordance with reasonable professional practices. (b) For TCM's demonstrating a quantifiable emission reduction benefit, the emissions analysis may include that emissions reduction credit. (c) For areas with a Transportation Plan that meets the content requirements of section 93.106, the emissions analysis shall be performed for each horizon year.

The emissions analysis methodology includes all regionally significant projects. VMT from all facilities is included in the analysis, including off-model facilities. There are no required TCMs for the Vigo County non-attainment area. There are also no additional credits being sought from the Congestion Mitigation and Air Quality (CMAQ) program funded projects that will be implemented in Vigo County.

## 2030 LONG RANGE PLAN

Capacity expansion projects that were explicitly modeled in the conformity analysis are listed below. The fiscally constrained listing specifies, by conformity horizons, when projects are expected to be completed. For a complete listing of projects, capacity, non-capacity, financially constrained, and non-financially constrained, please refer to the main 2030 Transportation Plan document.

TABLE 1: LONG RANGE PROJECT LIST

<u>Year 2000-2002</u>
<ul style="list-style-type: none"><li>• T-1a: 13<sup>th</sup> Street Extension – widening to four lanes from Poplar St. to Hulman St. (2002)</li><li>• T-3: Locust Street at Blakely Avenue – new traffic signal (2001)</li><li>• T-8: 13<sup>th</sup> Street at Washington Avenue – intersection realignment (2001)</li><li>• V-1: Lafayette Avenue at Haythorne Road – new traffic signal (2000)</li><li>• S-1: US 41 at Eaton Drive – new traffic signal (2000)</li><li>• S-4: US 40 at Thorpe Road – new traffic signal (2001)</li><li>• TF-2a: 13<sup>th</sup> Street – add continuous center left-turn lane from Wabash Avenue to Poplar St. (2002)</li></ul>
<u>Year 2003-2010</u>
<ul style="list-style-type: none"><li>• T-1b: 13<sup>th</sup> Street Extension – widening to four lanes from Hulman St. to I-70</li><li>• T-2: Margaret Avenue at 19<sup>th</sup> Street – new traffic signal (September 2005)</li><li>• T-4: Locust Street at 25<sup>th</sup> Street new traffic signal (December 2004)</li><li>• T-5: 1<sup>st</sup> Street Extension – two-lane extension and reconstruction from SR 63 to Locust Street (left-turn lanes at major intersections) (to be open August 2005)</li><li>• T-6: Lafayette Avenue – add continuous center left-turn lane from Ft. Harrison Road to Haythorne Road</li><li>• T-10: Fruitridge Avenue – two-lane reconstruction with partial access control from Ft. Harrison Road to Haythorne Avenue with new traffic signal at Haythorne Avenue</li><li>• T-11: Lafayette Avenue – add continuous center left-turn lane from Lost Creek Bridge to Ft. Harrison Road</li><li>• TF-8: SR 63 at Margaret Avenue – new traffic signal (2003)</li><li>• V-2: Fruitridge Avenue at Park Avenue -- intersection improvements and new traffic signal</li><li>• V-3: Canal Road/McDaniel Road – reconstruction and widening to four lanes from I-70 to SR 641</li><li>• V-4: Lafayette Avenue at Park Avenue – intersection improvements and new traffic signal</li><li>• S-2a: SR 63 at Johnson Drive – new traffic signal (part of Project SF-9a)</li><li>• S-2b: SR 63 at Springhill Drive – new traffic signal (November 2005)</li><li>• S-3: SR 641 – new four-lane freeway from US 41 to Canal Road</li></ul>

## Terre Haute / Vigo County 2030 Transportation Plan Air Quality Conformity Documentation

- S-5a: SR 641 – new four-lane freeway from Canal Road to Riley Road
- TF-3: Margaret Avenue – widening to five lanes from 13<sup>th</sup> Street to 25<sup>th</sup> Street
- TF-7a: Margaret Avenue – CSX RR underpass near 19<sup>th</sup> St (related to TF-3)
- TF-13a: Brown Avenue Extension – new two-lane (16' lanes with median) from Locust Street to Maple Avenue with new traffic signal at Locust Street and 2-lane reconstruction from Ohio Street to Locust Street
- TF-14a: Margaret Avenue – two-lane reconstruction (12-foot lanes) and realignment (west of SR 46) from 25<sup>th</sup> Street to SR 46
- TF-15 (new): Locust Street – new two-lane roadway from 25<sup>th</sup> Street to Brown Avenue (December 2004)
- VF-2a: Harlan Road – widening to five lanes from US 41 to Industrial Park Access Road
- SF-9a: SR 63 – add continuous center left-turn lane from Honey Creek Drive to US 41

### Year 2011-2015

- S-5b/5c: SR 641 – new four-lane freeway from Riley Road to I-70
- TF-10: Margaret Avenue -- add continuous center left-turn lane from SR 63 to 13<sup>th</sup> Street (four lanes from US 41 to 13<sup>th</sup> Street)
- TF-18 (new): 8<sup>th</sup> Avenue Extension – new two-lane roadway from Kester Avenue to Fruitridge Avenue
- VF-3a: Lafayette Avenue – add continuous center left-turn lane from Haythorne Ave. to Hasselburger Ave.
- SF-10 (new): US 41 – widening to six lanes from Margaret Avenue to Hulman Street (SR 63)

### Year 2016-2020

- TF-2b: 13<sup>th</sup> Street – add continuous center left-turn lane from Maple Avenue to Wabash Avenue
- TF-11a: 1<sup>st</sup> Street – reconstruction with left-turn lanes at major intersections from Locust St. to Hulman St.
- TF-19 (new): College Avenue Extension – new two-lane roadway from Fruitridge Avenue to SR 46

### Year 2021-2030

- TF-20 (new): 19<sup>th</sup> Street – two-lane reconstruction and realignment from Wabash Avenue to Locust Street (possibly moved up to before 2010)
- VF-9: Third Place Extension – new two-lane roadway from Johnson Road to Springhill Drive
- S-6b: I-70 at US 41 – interchange modification (possible single point urban diamond interchange with dual-lefts and separate right-turn lanes)
- SF-11 (new): I-70 – widen to six lanes from 0.4 mile west of US 41 to 0.5 mile east of SR 46
- SF-12 (new): I-70 – widen to six lanes from 0.5 mile east of SR 46 to SR 59

## TRAVEL DEMAND MODEL

The Terre Haute/Vigo County regional travel demand model is a mathematical computer model, using state of the art TransCAD software, which relates current and future travel demand to basic socioeconomic information. The model area covers all of Vigo County. This area is divided into 341 smaller units called traffic analysis zones. All major roadways are represented in the travel model.

The Terre Haute/Vigo County regional travel demand model underwent a recalibration and conversion to TransCAD software which was completed in December 2004. This recalibration established 2002 as the new base year for the model. The model update and recalibration in 2004 utilized the latest data from the 2000 Census, ES202 employment dataset, 2000 Census Transportation Planning Package, 2004 update of the Indiana Statewide Travel Demand Model, and several additional sources which are reported in detail in the Travel Demand Model Technical Documentation. During the model calibration process, model parameters were adjusted such that the model output matched—within accepted standards--several calibration criteria based on measured data. These criteria included items such as comparisons against traffic counts, modeled vs. observed vehicle miles of travel, trip lengths by trip purpose, etc. The result of the recalibration was a travel model which replicated travel in the Terre Haute area for 2002, and is capable of producing accurate traffic forecasts out to year 2030.



The recalibrated travel model was subsequently used in the regional air quality analysis. The Terre Haute/Vigo County travel demand model uses the standard four steps of modeling: trip generation, trip distribution, mode choice, and traffic assignment. In addition, it considers travel by vehicles (trucks and autos) entering, leaving, and crossing the study area. These types of trips are known as external-internal, internal-external, and external-external, respectively.

Trip generation is the process of determining the number of unlinked trip ends—called productions and attractions--and their spatial distribution based on socioeconomic variables such as households and employment. Trip rates used to define these relationships were derived from the travel data collection efforts described above. The internal trip purposes are home-based work, non home-based work, home-based other, home based shopping, non home-based other, home-based school.

Trip distribution is the process of linking the trip ends thereby creating trips which traverse the area. The travel model uses a gravity model to link all trips except the external-external ones. The gravity model is based on the principle that productions are linked to attractions as a direct function of the number of attractions of a zone and as an inverse function of the travel time between zones. This inverse function of travel time is used to generate parameters called friction factors which, in turn, direct the gravity model. The friction factors used in the gravity model were developed as part of the calibration effort performed during the model update of 2000.

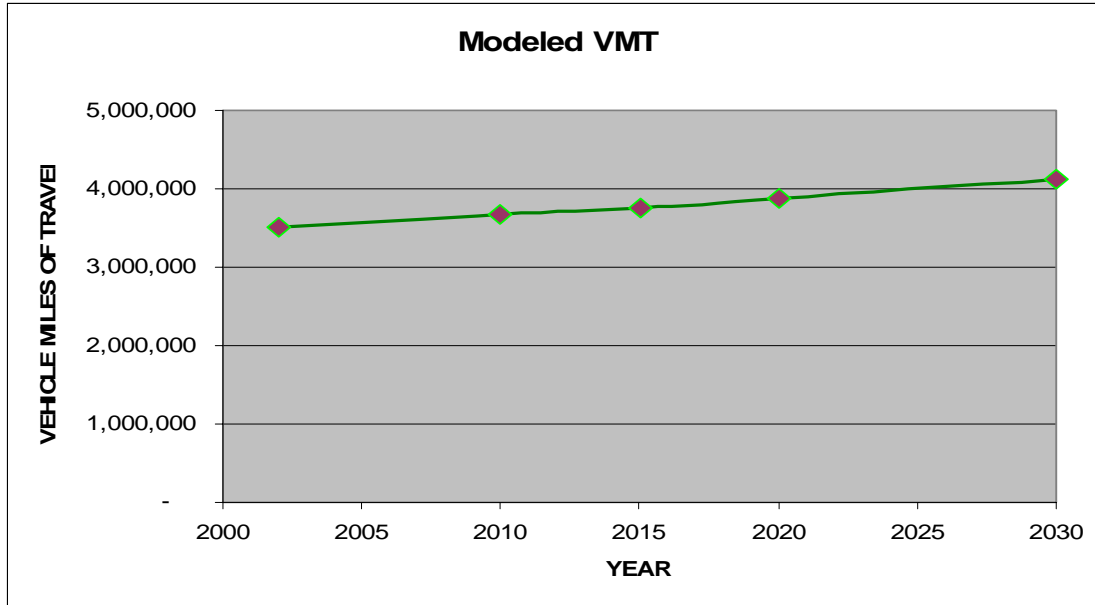
Mode choice is the process used to separate the trips which use transit from those which use automobiles. It is also used to separate the auto drive-alone trips from auto shared-ride trips. In the Terre Haute/Vigo County travel demand model, mode choice is modeled based on stratifications by trip purpose and travel times using recent household travel survey data from small to medium sized urban areas in Ohio. This procedure accounts for person trips that use transit or shared-ride (carpool), and the result is a origin to destination auto trip table.

Traffic assignment is the process used to determine which links of the network an auto or truck trip will use. A capacity restraint provision is used to adjust travel times between assignment iterations, to account for the effects of congestion. This sequence is called an equilibrium assignment. The results of this process produces a forecast of traffic volumes on each link in the network and an estimate of congested travel speeds, which allows for the calculation of vehicle-miles-traveled (VMT) and vehicle-hours-traveled (VHT).

Each of the horizon years contained in the Transportation Plan were coded into the model as a specific socioeconomic forecast with appropriate network capacity projects for that time period. These scenarios yielded the traffic

forecasts used in the conformity analysis. Vehicle miles of travel forecasts from these model runs are summarized in Figure 1.

FIGURE 1: MODELED VEHICLE MILES OF TRAVEL



## MODEL POST-PROCESSING AND MOBILE 6.2 INPUT FILES

Model outputs are expressed in terms daily volumes for each roadway segment. The raw model results from each scenario have traffic estimates only for those facilities coded in the model. These modeled traffic estimates generally include facilities that are classified as major collector or higher. Travel on the lower classed roadways (collector and local), while not entirely absent, is under-represented in the model. For estimating total emissions, raw model VMT is summarized by functional classification. These values are adjusted on a functional classification basis using a Model-to-HPMS VMT adjustment factor. The Model-to-HPMS VMT adjustment factor is calculated using the base year 2002 Model VMT compared to the base year HPMS reported VMT. HPMS is considered to be a more complete estimate of vehicle miles of travel in a county, and accounts for travel on all classifications of roadways. The HPMS adjustment factors are used in each of the Transportation Plan scenarios.

TABLE 2: HPMS ADJUSTMENT FACTORS

Functional Class	Functional Class Code	HPMS Adjustment Factor
Rural Interstate	1	0.84
Rural Principal Arterial	2	0.92
Rural Minor Arterial	6	0.87
Rural Major Collector	7	1.41
Rural Minor Collector	8	1.48
Rural Local	9	1.36
Urban Interstate	11	1.03
Urban Expressway	12	1.00
Urban Principal Arterial	14	1.14
Urban Minor Arterial	16	1.45
Urban Collector	17	0.93
Urban Local	19	5.19

Additionally, it is necessary to post-process the model estimates of travel speed by each road link to better match observed speeds. In the post-processing, an average speed and VMT are computed for each hour for each link and stored in a separate data file. The data file also contains an attribute for Mobile 6.2 facility class. In the post-processing, daily volumes are split into hourly volumes using an average hourly traffic distribution derived from the 1995 Indiana Household Travel Survey, see table 3 below.

TABLE 3: HOURLY DISTRIBUTION OF TRAFFIC

DISTRIBUTION OF TOTAL TRAFFIC BY HOUR			
Hour of Day	Percent of Daily Traffic	Hour of Day	Percent of Daily Traffic
1:00 AM	0.47%	1:00 PM	4.77%
2:00 AM	0.36%	2:00 PM	5.13%
2:00 AM	0.26%	3:00 PM	8.62%
4:00 AM	0.36%	4:00 PM	9.60%
5:00 AM	1.61%	5:00 PM	9.22%
6:00 AM	6.55%	6:00 PM	5.13%
7:00 AM	8.01%	7:00 PM	3.99%
8:00 AM	6.24%	8:00 PM	2.90%
9:00 AM	4.61%	9:00 PM	2.95%
10:00 AM	4.41%	10:00 PM	3.06%
11:00 AM	4.61%	11:00 PM	1.71%
12:00 AM	4.61%	12:00 PM	0.83%

Source: 1995 Indiana Household Travel Survey

Hourly volumes are then compared to an hourly capacity to determine a volume to capacity ratio. Hourly capacities use HCM 2000 methodology (described elsewhere in the model documentation).

Volume to capacity (v/c) ratios for each link for each hour are then used to estimate an hourly speed. A BPR volume delay function was used to estimate the link speeds for each hour formulated as follows.

$$Speed_{congested} = \frac{Speed_{freeflow}}{1 + \alpha (v/c)^{\beta}}$$

Alpha and Beta parameters are US EPA recommended values, where:

TABLE 4: BPR CURVE PARAMETERS

Volume-Delay Curve Parameters		
	Under 60 mph	Over 60 mph
Alpha	0.20	0.15
Beta	8.00	10.00

To avoid unrealistically low average hourly speeds, the V/C ratio is capped at 1.6. Any links that have an hourly V/C ratio that exceeds 1.6 is assumed to remain at 1.6 for speed estimation purposes.

Distribution of VMT by hour of the day is input to Mobile 6.2 via the HVMT.def file. The hourly distribution percentages use the Indiana Household Survey data shown in Table 3. The HVMT.def file does not change from scenario to scenario. It is listed in the Appendix.

Adjusted vehicle miles of travel are summed by Mobile 6.2 speed bin (speeds generated as discussed above), by facility classes 1 & 2, and by each hour of the day to create the SVMT.def Mobile 6.2 input files. A separate SVMT.def file is created for each scenario. These are listed in the Appendix.

Vehicle miles of travel for each of the 4 facility classes are summarized (Freeway, Arterial/Collector, Local, Ramp), by each hour of the day for the entire model to create the FVMT.def Mobile 6.2 input file. The distribution of auto trips across the facility types is derived from the post-processing of the model results discussed previously. The distribution of truck trips across facility types is derived from statewide HPMS data for 2002 provided by INDOT to IDEM, this distribution is shown in Table 5. When creating each of these files, only VMT from Vigo County links is used. The FVMT.def varies with each scenario. All FVMT files used in the analysis are listed in the Appendix.

TABLE 5: TRUCK VMT MIX BY FACILITY

Facility	Distribution Using Indiana HPMS data
Freeway	0.2214
Arterial/Collector	0.6526
Local	0.1207
Ramp	0.0054

Vehicle fleet age distribution was provided for light duty vehicles for Vigo County by IDEM, these values are used in the Regvigo.d file. For other vehicle classes, the standard Mobile 6.2 defaults are used. The Regvigo.d remains constant in each scenario, the file is listed in the Appendix

Other assumptions, such as the minimum and maximum July temperatures (65 and 87.3) for Terre Haute; absolute humidity (93.7), cloud cover (0.34), and sunrise/sunset (6am & 8pm respectively) were provided by IDEM. Each of these variables are specified in the Mobile 6.2 input files for each scenario.

The Mobile 6.2 model is run using the above-mentioned user inputs to get emission rates for each of the model scenarios. Emissions are then calculated from the adjusted VMT, by functional classification, using the Mobile 6.2 output emission rates.

## ANALYSIS RESULTS

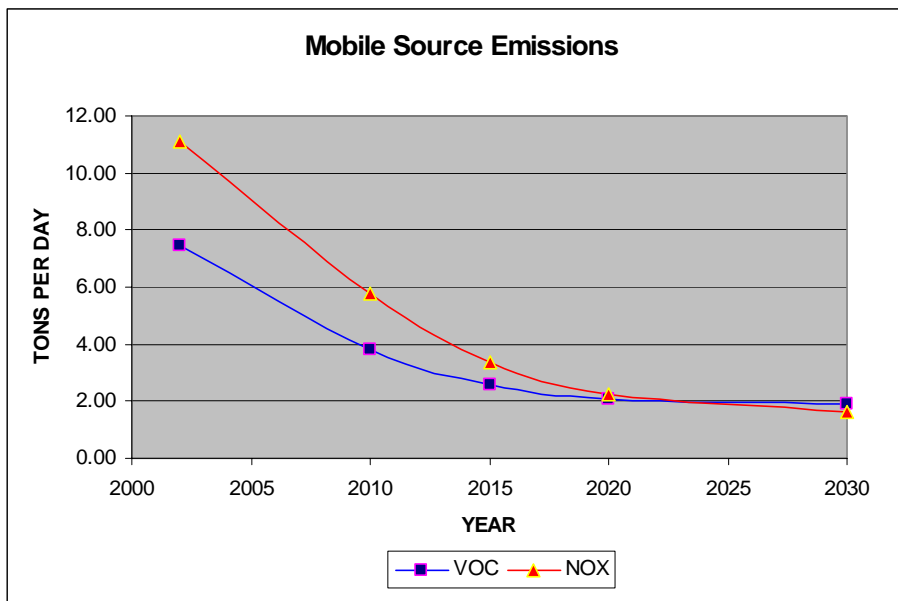
The regional emissions analysis was conducted to provide estimates of the levels of emissions of volatile organic compounds (VOC) and oxides of Nitrogen (NOx) for the various scenarios. VOC and NOx contribute directly to the production of ozone. Because no emission budgets are yet established for VOC and NOx, emissions are not permitted to exceed the 2002 levels.

The results of the regional emissions analysis are summarized in Tables 6 through 12, and in Figure 2. Table 6 shows that for each of the analysis years, the VOC and NOx emissions are less than those in 2002. Figure 2 illustrates that emissions for both ozone precursors is estimated to decline steadily over the next 25 years.

TABLE 6: EMISSION ANALYSIS RESULTS

Year	Daily VMT	VOC Tons/day	NOX Tons/day
2002	3,506,370	7.46	11.10
2010	3,669,020	3.84	5.76
2015	3,764,676	2.58	3.34
2020	3,884,845	2.05	2.24
2030	4,120,421	1.89	1.61

Figure 2: EMISSION ANALYSIS RESULTS



TABLES 7-11: DETAILED EMISSION ANALYSIS RESULTS

**Modeled Vehicle Miles of Travel and Mobile Source Emissions for 2002 Scenario**

	Model VMT	HPMS Adjusted VMT	VOC Tons/day	NOX Tons/day
Rural Interstates	160,473	135,464	0.29	0.43
Other Rural Principal Arterials	291,819	267,585	0.57	0.85
Rural Minor Arterials	59,618	51,669	0.11	0.16
Rural Major Collectors	173,047	243,658	0.52	0.77
Rural Minor Collectors	42,163	62,241	0.13	0.20
Rural Local Roads	68,709	93,604	0.20	0.30
Urban Interstates	397,209	408,860	0.87	1.29
Other Urban Freeways & Expwys	-	-	0.00	0.00
Other Urban Principal Arterials	878,961	1,004,952	2.14	3.18
Urban Minor Arterials	442,141	640,308	1.36	2.03
Urban Collectors	259,431	241,190	0.51	0.76
Urban Local Roads	68,812	356,839	0.76	1.13
<b>Total Vigo County</b>	<b>2,842,383</b>	<b>3,506,370</b>	<b>7.46</b>	<b>11.10</b>

**Modeled Vehicle Miles of Travel and Mobile Source Emissions for 2010 Scenario**

	Model VMT	HPMS Adjusted VMT	VOC Tons/day	NOX Tons/day
Rural Interstates	186,399	157,350	0.16	0.25
Other Rural Principal Arterials	314,847	288,701	0.30	0.45
Rural Minor Arterials	62,476	54,146	0.06	0.08
Rural Major Collectors	178,220	250,942	0.26	0.39
Rural Minor Collectors	44,357	65,479	0.07	0.10
Rural Local Roads	69,546	94,744	0.10	0.15
Urban Interstates	418,470	430,745	0.45	0.68
Other Urban Freeways & Expwys	45,616	45,616	0.05	0.07
Other Urban Principal Arterials	869,805	994,484	1.04	1.56
Urban Minor Arterials	427,386	618,940	0.65	0.97
Urban Collectors	302,631	281,352	0.29	0.44
Urban Local Roads	74,536	386,522	0.40	0.61
<b>Total Vigo County</b>	<b>2,994,289</b>	<b>3,669,020</b>	<b>3.84</b>	<b>5.76</b>

**Modeled Vehicle Miles of Travel and Mobile Source Emissions for 2015 Scenario**

	Model VMT	HPMS Adjusted VMT	VOC Tons/day	NOX Tons/day
Rural Interstates	202,632	171,053	0.12	0.15
Other Rural Principal Arterials	329,437	302,079	0.21	0.27
Rural Minor Arterials	64,400	55,813	0.04	0.05
Rural Major Collectors	185,530	261,235	0.18	0.23
Rural Minor Collectors	44,383	65,518	0.04	0.06
Rural Local Roads	71,657	97,620	0.07	0.09
Urban Interstates	429,010	441,594	0.30	0.39
Other Urban Freeways & Expwys	64,204	64,204	0.04	0.06
Other Urban Principal Arterials	883,086	1,009,668	0.69	0.90
Urban Minor Arterials	436,788	632,556	0.43	0.56
Urban Collectors	301,420	280,226	0.19	0.25
Urban Local Roads	73,878	383,110	0.26	0.34
<b>Total Vigo County</b>	<b>3,086,425</b>	<b>3,764,676</b>	<b>2.58</b>	<b>3.34</b>

**Modeled Vehicle Miles of Travel and Mobile Source Emissions for 2020 Scenario**

	Model VMT	HPMS Adjusted VMT	VOC Tons/day	NOX Tons/day
Rural Interstates	218,855	184,748	0.10	0.11
Other Rural Principal Arterials	341,709	313,332	0.17	0.18
Rural Minor Arterials	66,152	57,332	0.03	0.03
Rural Major Collectors	191,716	269,945	0.14	0.16
Rural Minor Collectors	45,635	67,366	0.04	0.04
Rural Local Roads	73,800	100,539	0.05	0.06
Urban Interstates	457,317	470,732	0.25	0.27
Other Urban Freeways & Expwys	68,044	68,044	0.04	0.04
Other Urban Principal Arterials	895,997	1,024,430	0.54	0.59
Urban Minor Arterials	447,590	648,199	0.34	0.37
Urban Collectors	306,819	285,246	0.15	0.16
Urban Local Roads	76,158	394,934	0.21	0.23
<b>Total Vigo County</b>	<b>3,189,792</b>	<b>3,884,845</b>	<b>2.05</b>	<b>2.24</b>



**Modeled Vehicle Miles of Travel and Mobile Source Emissions for 2030 Scenario**

	<b>Model VMT</b>	<b>HPMS Adjusted VMT</b>	<b>VOC Tons/day</b>	<b>NOX Tons/day</b>
Rural Interstates	251,326	212,158	0.10	0.08
Other Rural Principal Arterials	365,963	335,572	0.15	0.13
Rural Minor Arterials	70,049	60,709	0.03	0.02
Rural Major Collectors	204,461	287,890	0.13	0.11
Rural Minor Collectors	48,717	71,916	0.03	0.03
Rural Local Roads	78,167	106,488	0.05	0.04
Urban Interstates	510,072	525,034	0.24	0.20
Other Urban Freeways & Expwys	75,008	75,008	0.03	0.03
Other Urban Principal Arterials	927,746	1,060,730	0.49	0.41
Urban Minor Arterials	459,859	665,967	0.31	0.26
Urban Collectors	322,047	299,403	0.14	0.12
Urban Local Roads	80,904	419,545	0.19	0.16
<b>Total Vigo County</b>	<b>3,394,319</b>	<b>4,120,421</b>	<b>1.89</b>	<b>1.61</b>

The regional emissions analysis of the projects in the 2030 Transportation Plan indicates that the plan contributes to the improvement of air quality. In summary, it can be concluded that the Transportation Plan conforms to the national air quality standards.

**APPENDIX – MOBILE 6.2 FILES**

## VIGO COUNTY VEHICLE REGISTRATION – INPUT FILE

### REG DIST

\*  
\* THIS FILE CONTAINS THE DEFAULT MOBILE6 VALUES FOR THE DISTRIBUTION OF  
\* VEHICLES BY AGE FOR JULY OF ANY CALENDAR YEAR. THERE ARE SIXTEEN (16)  
\* SETS OF VALUES REPRESENTING 16 COMBINED GASOLINE/DIESEL VEHICLE CLASS  
\* DISTRIBUTIONS. THESE DISTRIBUTIONS ARE SPLIT FOR GASOLINE AND DIESEL  
\* USING THE SEPARATE INPUT (OR DEFAULT) VALUES FOR DIESEL SALES FRACTIONS.  
\* EACH DISTRIBUTION CONTAINS 25 VALUES WHICH REPRESENT THE FRACTION OF  
\* ALL VEHICLES IN THAT CLASS (GASOLINE AND DIESEL) OF THAT AGE IN JULY.  
\* THE FIRST NUMBER IS FOR AGE 1 (CALENDAR YEAR MINUS MODEL YEAR PLUS ONE)  
\* AND THE LAST NUMBER IS FOR AGE 25. THE LAST AGE INCLUDES ALL VEHICLES  
\* OF AGE 25 OR OLDER. THE FIRST NUMBER IN EACH DISTRIBUTION IS AN INTEGER  
\* WHICH INDICATES WHICH OF THE 16 VEHICLE CLASSES ARE REPRESENTED BY THE  
\* DISTRIBUTION. THE SIXTEEN VEHICLE CLASSES ARE:  
\*  
\* 1 LDV LIGHT-DUTY VEHICLES (PASSENGER CARS)  
\* 2 LDT1 LIGHT-DUTY TRUCKS 1 (0-6,000 LBS. GVWR, 0-3750 LBS. LVW)  
\* 3 LDT2 LIGHT DUTY TRUCKS 2 (0-6,001 LBS. GVWR, 3751-5750 LBS. LVW)  
\* 4 LDT3 LIGHT DUTY TRUCKS 3 (6,001-8500 LBS. GVWR, 0-3750 LBS. LVW)  
\* 5 LDT4 LIGHT DUTY TRUCKS 4 (6,001-8500 LBS. GVWR, 3751-5750 LBS. LVW)  
\* 6 HDV2B CLASS 2B HEAVY DUTY VEHICLES (8501-10,000 LBS. GVWR)  
\* 7 HDV3 CLASS 3 HEAVY DUTY VEHICLES (10,001-14,000 LBS. GVWR)  
\* 8 HDV4 CLASS 4 HEAVY DUTY VEHICLES (14,001-16,000 LBS. GVWR)  
\* 9 HDV5 CLASS 5 HEAVY DUTY VEHICLES (16,001-19,500 LBS. GVWR)  
\* 10 HDV6 CLASS 6 HEAVY DUTY VEHICLES (19,501-26,000 LBS. GVWR)  
\* 11 HDV7 CLASS 7 HEAVY DUTY VEHICLES (26,001-33,000 LBS. GVWR)  
\* 12 HDV8A CLASS 8A HEAVY DUTY VEHICLES (33,001-60,000 LBS. GVWR)  
\* 13 HDV8B CLASS 8B HEAVY DUTY VEHICLES (>60,000 LBS. GVWR)  
\* 14 HDBS SCHOOL BUSES  
\* 15 HDBT TRANSIT AND URBAN BUSES  
\* 16 MC MOTORCYCLES (ALL)  
\*  
\* THE 25 AGE VALUES ARE ARRANGED IN TWO ROWS OF 10 VALUES FOLLOWED BY A ROW  
\* WITH THE LAST 5 VALUES. COMMENTS (SUCH AS THIS ONE) ARE INDICATED BY  
\* AN ASTERISK IN THE FIRST COLUMN. EMPTY ROWS ARE IGNORED. VALUES ARE  
\* READ "FREE FORMAT," MEANING ANY NUMBER MAY APPEAR IN ANY ROW WITH AS  
\* MANY CHARACTERS AS NEEDED (INCLUDING A DECIMAL) AS LONG AS 25 VALUES  
\* FOLLOW THE INITIAL INTEGER VALUE SEPARATED BY A SPACE.  
\*  
\* IF ALL 28 VEHICLE CLASSES DO NOT NEED TO BE ALTERED FROM THE DEFAULT  
\* VALUES, THEN ONLY THE VEHICLE CLASSES THAT NEED TO BE CHANGED NEED TO  
\* BE INCLUDED IN THIS FILE. THE ORDER IN WHICH THE VEHICLE CLASSES ARE  
\* READ DOES NOT MATTER, HOWEVER EACH VEHICLE CLASS SET MUST CONTAIN 25  
\* VALUES AND BE IN THE PROPER AGE ORDER.  
\*  
\* COUNTY 84, VIGO  
\* LDV  
1 0.0384 0.0513 0.0511 0.0558 0.0691 0.0702 0.0587 0.0640 0.0553 0.0677  
0.0547 0.0551 0.0488 0.0481 0.0419 0.0375 0.0276 0.0235 0.0204 0.0140  
0.0107 0.0057 0.0038 0.0034 0.0232  
\* LDT1  
2 0.0277 0.0369 0.0368 0.0274 0.0247 0.0264 0.0381 0.0296 0.0479 0.0513  
0.0674 0.0517 0.0427 0.0614 0.0497 0.0616 0.0509 0.0599 0.0529 0.0443  
0.0276 0.0182 0.0169 0.0141 0.0338  
\* LDT2  
3 0.0550 0.0733 0.0730 0.0715 0.0849 0.0841 0.0885 0.0872 0.0525 0.0538  
0.0470 0.0445 0.0339 0.0270 0.0242 0.0198 0.0253 0.0106 0.0085 0.0067  
0.0080 0.0043 0.0031 0.0024 0.0111  
\* LDT3  
4 0.0450 0.0600 0.0598 0.0657 0.0629 0.0799 0.0584 0.0593 0.0649 0.0666  
0.0585 0.0396 0.0352 0.0246 0.0229 0.0269 0.0199 0.0172 0.0191 0.0168  
0.0125 0.0099 0.0049 0.0037 0.0657  
\* LDT4  
5 0.0658 0.0877 0.0877 0.0905 0.0801 0.0946 0.0739 0.0525 0.0421 0.0580  
0.0615 0.0207 0.0110 0.0097 0.0145 0.0048 0.0076 0.0062 0.0124 0.0138  
0.0055 0.0055 0.0021 0.0007 0.0911

## HOURLY VMT DISTRIBUTION INPUT FILE

```
VMT BY HOUR
*
* FRACTION OF ALL VEHICLE MILES TRAVELED BY HOUR OF THE DAY.
* FIRST HOUR IS 6 A.M.
*
0.0655 0.0801 0.0624 0.0461 0.0441 0.0461
0.0461 0.0477 0.0513 0.0862 0.0960 0.0922
0.0513 0.0399 0.0290 0.0295 0.0306 0.0171
0.0083 0.0047 0.0036 0.0026 0.0036 0.0161
```

**2002 SCENARIO FILES – FVMT (VMT BY FACILITY BY VEHICLE CLASS BY HOUR)**

VMT BY FACILITY				
1	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
2	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
3	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
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	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
4	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
5	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053
	0.1703	0.6754	0.1490	0.0053

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

Terre Haute / Vigo County 2030 Transportation Plan  
Air Quality Conformity Documentation

**2002 SCENARIO FILES – SVMT (SPEED DISTRIBUTION BY TIME OF DAY BY FACILITY)**

SPEED VMT														
1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 1	0.0021	0.0007	0.0000	0.0114	0.0164	0.0305	0.1412	0.0750	0.2282	0.1458	0.1382	0.0657	0.1443	0.0000
1 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 2	0.0036	0.0333	0.0325	0.0395	0.0245	0.0646	0.1429	0.0952	0.1308	0.1170	0.1121	0.0700	0.1336	0.0000
1 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 3	0.0015	0.0006	0.0007	0.0007	0.0180	0.0261	0.1403	0.0633	0.2155	0.1836	0.1369	0.0678	0.1443	0.0000
1 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 4	0.0000	0.0000	0.0000	0.0011	0.0010	0.0039	0.1253	0.0705	0.1779	0.2418	0.1457	0.0882	0.1443	0.0000
1 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 5	0.0000	0.0000	0.0000	0.0000	0.0015	0.0038	0.1224	0.0643	0.1876	0.2418	0.1457	0.0882	0.1443	0.0000
1 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 6	0.0000	0.0000	0.0000	0.0011	0.0010	0.0039	0.1253	0.0705	0.1779	0.2418	0.1457	0.0882	0.1443	0.0000
1 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 7	0.0000	0.0000	0.0000	0.0011	0.0010	0.0039	0.1253	0.0705	0.1779	0.2418	0.1457	0.0882	0.1443	0.0000
1 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 8	0.0000	0.0000	0.0000	0.0015	0.0006	0.0039	0.1253	0.0705	0.1814	0.2382	0.1497	0.0842	0.1443	0.0000
1 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 9	0.0000	0.0000	0.0015	0.0006	0.0007	0.0031	0.1351	0.0668	0.1861	0.2343	0.1530	0.0739	0.1443	0.0000
1 10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 10	0.0202	0.0492	0.0459	0.0237	0.0710	0.0837	0.1007	0.0731	0.1079	0.1095	0.1119	0.1006	0.1021	0.0000
1 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 11	0.0620	0.0634	0.0768	0.0658	0.0398	0.0456	0.0883	0.0654	0.0890	0.1071	0.1160	0.1401	0.0401	0.0000
1 12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 12	0.0361	0.0780	0.0364	0.0711	0.0611	0.0510	0.0892	0.0644	0.1073	0.1006	0.1241	0.1199	0.0603	0.0000
1 13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 13	0.0000	0.0000	0.0015	0.0006	0.0007	0.0031	0.1351	0.0668	0.1861	0.2343	0.1530	0.0739	0.1443	0.0000
1 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0053	0.1224	0.0562	0.1957	0.2344	0.1375	0.1038	0.1443	0.0000
1 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000
1 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
2 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1246	0.0487	0.2032	0.1819	0.1805	0.1133	0.1443	0.0000

## 2002 SCENARIO FILES – MOBILE 6.2 INPUT FILE

```
MOBILE6 INPUT FILE :  
*updated 4/6/2005, DLM  
> Vigo County 2002  
  
POLLUTANTS          : HC CO NOx  
REPORT FILE         : VIGO2002.txt  
SPREADSHEET         : M6REPORT  
EMISSIONS TABLE    : vigo2002.tbl  
  
RUN DATA  
> Vigo County 2002  
  
MIN/MAX TEMP        : 65. 87.3  
FUEL RVP            : 9.0  
EXPRESS HC AS VOC   :  
NO REFUELING        :  
REG DIST            : Regvigo.d  
VMT BY FACILITY      : 2002fvmt.def  
VMT BY HOUR         : Hvmtvigo.def  
SPEED VMT           : 2002Svmt.def  
  
SCENARIO RECORD     : Scenario Title : Vigo County 2002  
> Vigo County 2002  
  
CALENDAR YEAR       : 2002  
EVALUATION MONTH    : 7  
  
ABSOLUTE HUMIDITY   : 93.7  
CLOUD COVER         : 0.34  
  
SUNRISE/SUNSET      : 6 8  
  
END OF RUN
```

## 2002 SCENARIO FILES – MOBILE 6.2 OUTPUT FILE

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: VIGO2002.IN (file 1, run 1). *
*****
* Vigo County 2002
  M603 Comment:
    User has disabled the calculation of REFUELING emissions.

* Reading Registration Distributions from the following external
* data file: REGVIGO.D
  M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)
  M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)
  M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)

* Reading Hourly Roadway VMT distribution from the following external
* data file: 2002FVMT.DEF

  Reading User Supplied ROADWAY VMT Factors

* Reading Hourly VMT distribution from the following external
* data file: HVMTVIGO.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: 2002SVMT.DEF

* #####
* Scenario Title : Vigo County 2002
* File 1, Run 1, Scenario 1.
* #####
* Vigo County 2002
  M617 Comment:
    User supplied alternate AC input: Cloud Cover Fraction set to 0.34.
  M618 Comment:
    User supplied alternate AC input: Sunrise at 6 AM, Sunset at 8 PM.
  M 48 Warning:
    there are no sales for vehicle class HDGV8b

    Calendar Year: 2002
    Month: July
    Altitude: Low
    Minimum Temperature: 65.0 (F)
    Maximum Temperature: 87.3 (F)
    Absolute Humidity: 94. grains/lb
    Nominal Fuel RVP: 9.0 psi
    Weathered RVP: 8.7 psi
    Fuel Sulfur Content: 279. ppm

    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: No
    Reformulated Gas: No

    Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
    GWR: <6000 >6000 (All)
    VMT Distribution: 0.4453 0.3065 0.1159 0.0372 0.0009 0.0019 0.0861 0.0062 1.0000

-----
Composite Emission Factors (g/mi):
Composite VOC : 2.077 1.907 2.295 2.013 2.137 0.823 0.887 0.663 2.52 1.930
Composite CO : 20.27 22.89 28.48 24.43 27.61 1.913 1.594 3.663 17.90 20.802
Composite NOX : 1.302 1.407 1.644 1.472 5.186 1.941 1.803 17.013 1.18 2.871
-----
```

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Terre Haute / Vigo County 2030 Transportation Plan  
Air Quality Conformity Documentation

**2010 SCENARIO FILES – SVMT (SPEED DISTRIBUTION BY TIME OF DAY BY FACILITY)**

SPEED VMT														
1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 1	0.0045	0.0000	0.0007	0.0099	0.0175	0.0251	0.1086	0.0673	0.2007	0.1892	0.1454	0.0788	0.1518	0.0000
1 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 2	0.0052	0.0239	0.0225	0.0116	0.0249	0.0377	0.1355	0.1070	0.1597	0.1192	0.1398	0.1110	0.1015	0.0000
1 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 3	0.0045	0.0000	0.0000	0.0007	0.0111	0.0246	0.1195	0.0553	0.1975	0.1990	0.1546	0.0810	0.1518	0.0000
1 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 4	0.0000	0.0000	0.0000	0.0017	0.0028	0.0031	0.1065	0.0673	0.1910	0.2364	0.1347	0.1043	0.1518	0.0000
1 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 5	0.0000	0.0000	0.0000	0.0017	0.0028	0.0031	0.1065	0.0673	0.1910	0.2364	0.1347	0.1043	0.1518	0.0000
1 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 6	0.0000	0.0000	0.0000	0.0017	0.0028	0.0031	0.1065	0.0673	0.1910	0.2364	0.1347	0.1043	0.1518	0.0000
1 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 7	0.0000	0.0000	0.0000	0.0017	0.0028	0.0031	0.1065	0.0673	0.1910	0.2364	0.1347	0.1043	0.1518	0.0000
1 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 8	0.0000	0.0000	0.0017	0.0028	0.0000	0.0031	0.1065	0.0680	0.1933	0.2334	0.1401	0.0989	0.1518	0.0000
1 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 9	0.0000	0.0006	0.0039	0.0000	0.0000	0.0038	0.1125	0.0662	0.1929	0.2316	0.1406	0.0957	0.1518	0.0000
1 10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 10	0.0160	0.0357	0.0133	0.0245	0.0499	0.0615	0.1125	0.0992	0.1339	0.1165	0.1244	0.1489	0.0632	0.0000
1 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 11	0.0439	0.0373	0.0525	0.0577	0.0396	0.0495	0.1016	0.0919	0.0919	0.1314	0.1633	0.0970	0.0420	0.0000
1 12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 12	0.0340	0.0291	0.0320	0.0641	0.0421	0.0524	0.1107	0.0864	0.1107	0.1114	0.1556	0.1289	0.0420	0.0000
1 13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 13	0.0000	0.0006	0.0039	0.0000	0.0000	0.0038	0.1125	0.0662	0.1929	0.2316	0.1406	0.0957	0.1518	0.0000
1 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0076	0.1065	0.0600	0.1983	0.2323	0.1388	0.1043	0.1518	0.0000
1 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000
1 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0722	0.0000	0.0000	0.0000	0.0000	0.9277
2 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.1083	0.0547	0.2064	0.1825	0.1885	0.1043	0.1518	0.0000

## 2010 SCENARIO FILES – MOBILE 6.2 INPUT FILE

```
MOBILE6 INPUT FILE :
*updated 4/6/2005, DLM
> Vigo County 2010
* Vigo County 2010
POLLUTANTS          : HC CO NOx
REPORT FILE         : VIGO2010.txt

EMISSIONS TABLE    : vigo2010.tbl

RUN DATA
> Vigo County 2010
MIN/MAX TEMP        : 65. 87.3
FUEL RVP            : 9.0
EXPRESS HC AS VOC   :
NO REFUELING        :
REG DIST            : Regvigo.d
VMT BY FACILITY      : 2010fvmt.def
VMT BY HOUR         : Hvmtvigo.def
SPEED VMT           : 2010Svmt.def

SCENARIO RECORD      : Scenario Title : Vigo County 2010
> Vigo County 2010
* This text is for annotating this file and is otherwise ignored.
CALENDAR YEAR       : 2010
EVALUATION MONTH    : 7

ABSOLUTE HUMIDITY    : 93.7
CLOUD COVER         : 0.34

SUNRISE/SUNSET      : 6 8

END OF RUN
```

## 2010 SCENARIO FILES – MOBILE 6.2 OUTPUT FILE

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: VIGO2010.IN (file 1, run 1). *
*****
* Vigo County 2010
M603 Comment:
    User has disabled the calculation of REFUELING emissions.

* Reading Registration Distributions from the following external
* data file: REGVIGO.D
M 49 Warning:
    1.00    MYR sum not = 1. (will normalize)
M 49 Warning:
    1.00    MYR sum not = 1. (will normalize)
M 49 Warning:
    1.00    MYR sum not = 1. (will normalize)

* Reading Hourly Roadway VMT distribution from the following external
* data file: 2010FVMT.DEF

    Reading User Supplied ROADWAY VMT Factors

* Reading Hourly VMT distribution from the following external
* data file: HVMTVIGO.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: 2010SVMT.DEF

* # # # # #
* Scenario Title : Vigo County 2010
* File 1, Run 1, Scenario 1.
* # # # # #
* Vigo County 2010
M617 Comment:
    User supplied alternate AC input: Cloud Cover Fraction set to 0.34.
M618 Comment:
    User supplied alternate AC input: Sunrise at  6 AM, Sunset at  8 PM.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

    Calendar Year:  2010
    Month:         July
    Altitude:      Low
    Minimum Temperature:  65.0 (F)
    Maximum Temperature:  87.3 (F)
    Absolute Humidity:    94. grains/lb
    Nominal Fuel RVP:     9.0 psi
    Weathered RVP:        8.7 psi
    Fuel Sulfur Content:  30. ppm

    Exhaust I/M Program: No
    Evap I/M Program:   No
    ATP Program:        No
    Reformulated Gas:   No

    Vehicle Type:      LDGV    LDGT12    LDGT34    LDGT      HDGV    LDDV    LDDT    HDDV    MC    All Veh
    GVWR:              <6000   >6000   (All)
    VMT Distribution:   0.3376   0.3840   0.1449   0.0370   0.0003   0.0021   0.0884   0.0056   1.0000

-----
Composite Emission Factors (g/mi):
Composite VOC :      1.050    0.927    1.086    0.971    0.907    0.225    0.390    0.366    2.43    0.949
Composite CO  :      10.33   10.87   12.59   11.34    9.83    1.011    0.692    1.727   16.85   10.098
Composite NOX :       0.654    0.757    0.987    0.820    2.340    0.577    0.764    7.621    1.19    1.423
-----
```



**2015 SCENARIO FILES – FVMT (VMT BY FACILITY BY VEHICLE CLASS BY HOUR)**

VMT BY FACILITY				
1	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
2	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
3	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
4	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
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	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
5	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054
	0.1726	0.6846	0.1374	0.0054

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Terre Haute / Vigo County 2030 Transportation Plan  
Air Quality Conformity Documentation

**2015 SCENARIO FILES – SVMT (SPEED DISTRIBUTION BY TIME OF DAY BY FACILITY)**

SPEED VMT														
1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 1	0.0043	0.0000	0.0000	0.0028	0.0086	0.0170	0.1107	0.0734	0.2336	0.1663	0.1558	0.0716	0.1555	0.0000
1 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 2	0.0056	0.0068	0.0202	0.0091	0.0198	0.0678	0.1386	0.1042	0.1503	0.1270	0.1337	0.1240	0.0923	0.0000
1 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 3	0.0017	0.0025	0.0000	0.0007	0.0044	0.0152	0.1143	0.0658	0.1970	0.2061	0.1571	0.0793	0.1555	0.0000
1 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 4	0.0000	0.0000	0.0000	0.0017	0.0025	0.0030	0.1013	0.0603	0.1929	0.2369	0.1412	0.1043	0.1555	0.0000
1 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 5	0.0000	0.0000	0.0000	0.0006	0.0010	0.0056	0.1013	0.0603	0.1929	0.2369	0.1405	0.1050	0.1555	0.0000
1 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 6	0.0000	0.0000	0.0000	0.0017	0.0025	0.0030	0.1013	0.0603	0.1929	0.2369	0.1412	0.1043	0.1555	0.0000
1 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 7	0.0000	0.0000	0.0000	0.0017	0.0025	0.0030	0.1013	0.0603	0.1929	0.2369	0.1412	0.1043	0.1555	0.0000
1 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 8	0.0000	0.0000	0.0006	0.0010	0.0025	0.0030	0.1013	0.0610	0.1922	0.2397	0.1431	0.0996	0.1555	0.0000
1 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 9	0.0000	0.0006	0.0010	0.0025	0.0000	0.0037	0.1047	0.0597	0.1935	0.2356	0.1463	0.0964	0.1555	0.0000
1 10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 10	0.0084	0.0240	0.0106	0.0318	0.0675	0.0503	0.1169	0.1051	0.1235	0.1229	0.1492	0.1467	0.0428	0.0000
1 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 11	0.0324	0.0230	0.0773	0.0459	0.0459	0.0486	0.1052	0.0883	0.1034	0.1594	0.1566	0.0802	0.0334	0.0000
1 12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 12	0.0193	0.0222	0.0493	0.0541	0.0603	0.0371	0.1133	0.0906	0.1076	0.1170	0.1872	0.0986	0.0428	0.0000
1 13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 13	0.0000	0.0006	0.0010	0.0025	0.0000	0.0037	0.1047	0.0597	0.1935	0.2356	0.1463	0.0964	0.1555	0.0000
1 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0047	0.1038	0.0559	0.1973	0.2353	0.1421	0.1050	0.1555	0.0000
1 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000
1 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0775	0.0171	0.0000	0.0000	0.0000	0.9053
2 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030	0.1030	0.0585	0.1973	0.1828	0.1946	0.1050	0.1555	0.0000



## 2015 SCENARIO FILES – MOBILE 6.2 INPUT FILE

```
MOBILE6 INPUT FILE :  
*updated 4/6/2005, DLM  
> Vigo County 2015  
* Vigo County 2015  
POLLUTANTS          : HC CO NOx  
REPORT FILE         : VIGO2015.txt  
  
EMISSIONS TABLE    : vigo2015.tbl  
  
RUN DATA  
> Vigo County 2015  
MIN/MAX TEMP        : 65. 87.3  
FUEL RVP            : 9.0  
EXPRESS HC AS VOC   :  
NO REFUELING        :  
REG DIST            : Regvigo.d  
VMT BY FACILITY      : 2015fvmt.def  
VMT BY HOUR          : Hvmtvigo.def  
SPEED VMT           : 2015Svmt.def  
  
SCENARIO RECORD      : Scenario Title : Vigo County 2015  
> Vigo County 2015  
* This text is for annotating this file and is otherwise ignored.  
CALENDAR YEAR        : 2015  
EVALUATION MONTH     : 7  
  
ABSOLUTE HUMIDITY    : 93.7  
CLOUD COVER          : 0.34  
  
SUNRISE/SUNSET       : 6 8  
  
END OF RUN
```

## 2015 SCENARIO FILES – MOBILE 6.2 OUTPUT FILE

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: VIGO2015.IN (file 1, run 1).
*****
* Vigo County 2015
  M603 Comment:
    User has disabled the calculation of REFUELING emissions.

* Reading Registration Distributions from the following external
* data file: REGVIGO.D
  M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)
  M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)
  M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)

* Reading Hourly Roadway VMT distribution from the following external
* data file: 2015FVMT.DEF

  Reading User Supplied ROADWAY VMT Factors

* Reading Hourly VMT distribution from the following external
* data file: HVMTVIGO.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: 2015SVMT.DEF

# # # # #
* Scenario Title : Vigo County 2015
* File 1, Run 1, Scenario 1.
# # # # #
* Vigo County 2015
  M617 Comment:
    User supplied alternate AC input: Cloud Cover Fraction set to 0.34.
  M618 Comment:
    User supplied alternate AC input: Sunrise at 6 AM, Sunset at 8 PM.
  M 48 Warning:
    there are no sales for vehicle class HDGV8b
  M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2015
      Month: July
      Altitude: Low
    Minimum Temperature: 65.0 (F)
    Maximum Temperature: 87.3 (F)
    Absolute Humidity: 94. grains/lb
    Nominal Fuel RVP: 9.0 psi
    Weathered RVP: 8.7 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: No
    Reformulated Gas: No

    Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
    GVWR: <6000 >6000 (All)
    VMT Distribution: 0.2937 0.4156 0.1569 0.0370 0.0003 0.0023 0.0889 0.0054 1.0000

-----
Composite Emission Factors (g/mi):
Composite VOC : 0.638 0.607 0.782 0.655 0.579 0.126 0.233 0.277 2.41 0.622
Composite CO : 8.20 8.58 9.54 8.84 8.21 0.807 0.488 0.772 16.41 7.934
Composite NOX : 0.433 0.496 0.645 0.537 1.141 0.249 0.362 3.614 1.19 0.805
-----

```

**2020 SCENARIO FILES – FVMT (VMT BY FACILITY BY VEHICLE CLASS BY HOUR)**

VMT BY FACILITY				
1	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
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	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
2	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
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	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
3	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
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	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
4	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
5	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053
	0.1719	0.6818	0.1409	0.0053

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Terre Haute / Vigo County 2030 Transportation Plan  
Air Quality Conformity Documentation

**2020 SCENARIO FILES – SVMT (SPEED DISTRIBUTION BY TIME OF DAY BY FACILITY)**

SPEED VMT														
1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 1	0.0041	0.0000	0.0000	0.0006	0.0102	0.0193	0.0996	0.0874	0.2241	0.1677	0.1570	0.0841	0.1454	0.0000
1 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 2	0.0041	0.0045	0.0218	0.0080	0.0219	0.0646	0.1312	0.1215	0.1411	0.1271	0.1354	0.1478	0.0705	0.0000
1 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 3	0.0016	0.0025	0.0000	0.0006	0.0000	0.0149	0.1045	0.0790	0.2047	0.2033	0.1590	0.0719	0.1576	0.0000
1 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 4	0.0000	0.0000	0.0000	0.0016	0.0025	0.0029	0.0864	0.0730	0.1931	0.2383	0.1444	0.0998	0.1576	0.0000
1 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 5	0.0000	0.0000	0.0000	0.0000	0.0016	0.0054	0.0864	0.0730	0.1931	0.2356	0.1417	0.1052	0.1576	0.0000
1 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 6	0.0000	0.0000	0.0000	0.0016	0.0025	0.0029	0.0864	0.0730	0.1931	0.2383	0.1444	0.0998	0.1576	0.0000
1 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 7	0.0000	0.0000	0.0000	0.0016	0.0025	0.0029	0.0864	0.0730	0.1931	0.2383	0.1444	0.0998	0.1576	0.0000
1 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 8	0.0000	0.0000	0.0000	0.0016	0.0025	0.0029	0.0864	0.0730	0.1931	0.2383	0.1456	0.0986	0.1576	0.0000
1 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 9	0.0000	0.0000	0.0016	0.0025	0.0000	0.0036	0.0857	0.0765	0.1937	0.2342	0.1595	0.0848	0.1576	0.0000
1 10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 10	0.0054	0.0250	0.0092	0.0447	0.0493	0.0612	0.1030	0.1177	0.1225	0.1197	0.1633	0.1351	0.0435	0.0000
1 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 11	0.0305	0.0340	0.0627	0.0616	0.0377	0.0554	0.0956	0.0914	0.1165	0.1533	0.1619	0.0650	0.0339	0.0000
1 12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 12	0.0268	0.0110	0.0517	0.0512	0.0639	0.0450	0.1024	0.0917	0.1219	0.1380	0.1725	0.0895	0.0339	0.0000
1 13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 13	0.0000	0.0000	0.0016	0.0025	0.0000	0.0036	0.0857	0.0765	0.1937	0.2342	0.1595	0.0848	0.1576	0.0000
1 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0045	0.0889	0.0686	0.1975	0.2339	0.1433	0.1052	0.1576	0.0000
1 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000
1 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0766	0.0171	0.0000	0.0000	0.0000	0.9062
2 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0881	0.0711	0.1975	0.1829	0.1944	0.1052	0.1576	0.0000

## 2020 SCENARIO FILES – MOBILE 6.2 INPUT FILE

```
MOBILE6 INPUT FILE :
*updated 4/6/2005, DLM
> Vigo County 2020
* Vigo County 2020
POLLUTANTS          : HC CO NOx
REPORT FILE         : VIGO2020.txt

EMISSIONS TABLE    : vigo2020.tbl

RUN DATA
> Vigo County 2020
MIN/MAX TEMP        : 65. 87.3
FUEL RVP            : 9.0
EXPRESS HC AS VOC   :
NO REFUELING        :
REG DIST            : Regvigo.d
VMT BY FACILITY      : 2020fvmt.def
VMT BY HOUR         : Hvmtvigo.def
SPEED VMT           : 2020Svmt.def

SCENARIO RECORD     : Scenario Title : Vigo County 2020
> Vigo County 2020
* This text is for  annotating this file and is otherwise ignored.
CALENDAR YEAR       : 2020
EVALUATION MONTH    : 7

ABSOLUTE HUMIDITY    : 93.7
CLOUD COVER         : 0.34

SUNRISE/SUNSET      : 6 8

END OF RUN
```

## 2020 SCENARIO FILES – MOBILE 6.2 OUTPUT FILE

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: VIGO2020.IN (file 1, run 1).
* *****
* Vigo County 2020
* M603 Comment:
    User has disabled the calculation of REFUELING emissions.

* Reading Registration Distributions from the following external
* data file: REGVIGO.D
M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)
M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)
M 49 Warning:
    1.00 MYR sum not = 1. (will normalize)

* Reading Hourly Roadway VMT distribution from the following external
* data file: 2020FVMT.DEF

    Reading User Supplied ROADWAY VMT Factors

* Reading Hourly VMT distribution from the following external
* data file: HVMTVIGO.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: 2020SVMT.DEF

# # # # #
* Scenario Title : Vigo County 2020
* File 1, Run 1, Scenario 1.
# # # # #
* Vigo County 2020
* M617 Comment:
    User supplied alternate AC input: Cloud Cover Fraction set to 0.34.
* M618 Comment:
    User supplied alternate AC input: Sunrise at 6 AM, Sunset at 8 PM.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2020
    Month: July
    Altitude: Low
    Minimum Temperature: 65.0 (F)
    Maximum Temperature: 87.3 (F)
    Absolute Humidity: 94. grains/lb
    Nominal Fuel RVP: 9.0 psi
    Weathered RVP: 8.7 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: No
    Reformulated Gas: No

    Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
    GVWR: <6000 >6000 (All)
    VMT Distribution: 0.2698 0.4320 0.1630 0.0374 0.0002 0.0024 0.0898 0.0053 1.0000

-----
Composite Emission Factors (g/mi):
Composite VOC : 0.471 0.468 0.611 0.507 0.388 0.075 0.166 0.245 2.41 0.479
Composite CO : 7.18 7.62 8.56 7.88 7.88 0.685 0.413 0.448 16.43 7.051
Composite NOX : 0.308 0.377 0.511 0.414 0.613 0.092 0.232 1.839 1.19 0.524
-----
```

**2030 SCENARIO FILES – FVMT (VMT BY FACILITY BY VEHICLE CLASS BY HOUR)**

VMT BY FACILITY				
1	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
2	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
3	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
4	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
5	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053
	0.1708	0.6772	0.1467	0.0053

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

Terre Haute / Vigo County 2030 Transportation Plan  
Air Quality Conformity Documentation

**2030 SCENARIO FILES – SVMT (SPEED DISTRIBUTION BY TIME OF DAY BY FACILITY)**

SPEED VMT														
1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 1	0.0038	0.0000	0.0000	0.0000	0.0019	0.0063	0.0178	0.1033	0.0929	0.2131	0.1788	0.1521	0.0882	0.1414
1 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 2	0.0038	0.0090	0.0161	0.0149	0.0349	0.0478	0.1295	0.1297	0.1313	0.1333	0.1532	0.1512	0.0448	0.0000
1 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 3	0.0005	0.0032	0.0000	0.0000	0.0032	0.0114	0.1016	0.0807	0.2122	0.1924	0.1608	0.0921	0.1414	0.0000
1 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014	0.0050	0.0845	0.0709	0.1928	0.2363	0.1485	0.0989	0.1613
1 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 5	0.0000	0.0000	0.0000	0.0000	0.0005	0.0059	0.0845	0.0677	0.1960	0.2336	0.1512	0.0989	0.1613	0.0000
1 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 6	0.0000	0.0000	0.0000	0.0000	0.0014	0.0050	0.0845	0.0709	0.1928	0.2363	0.1485	0.0989	0.1613	0.0000
1 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 7	0.0000	0.0000	0.0000	0.0000	0.0014	0.0050	0.0845	0.0709	0.1928	0.2363	0.1485	0.0989	0.1613	0.0000
1 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 8	0.0000	0.0000	0.0000	0.0005	0.0032	0.0027	0.0845	0.0726	0.1968	0.2306	0.1505	0.0969	0.1613	0.0000
1 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 9	0.0000	0.0000	0.0005	0.0032	0.0000	0.0027	0.0874	0.0736	0.1929	0.2306	0.1623	0.0850	0.1613	0.0000
1 10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 10	0.0075	0.0225	0.0208	0.0340	0.0415	0.0678	0.1369	0.0933	0.1240	0.1416	0.1837	0.0910	0.0349	0.0000
1 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 11	0.0301	0.0432	0.0549	0.0605	0.0444	0.0679	0.1141	0.1097	0.1142	0.1526	0.1182	0.0549	0.0349	0.0000
1 12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 12	0.0197	0.0306	0.0345	0.0603	0.0576	0.0614	0.1053	0.1166	0.1196	0.1516	0.1526	0.0549	0.0349	0.0000
1 13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 13	0.0000	0.0000	0.0005	0.0032	0.0000	0.0027	0.0874	0.0736	0.1929	0.2306	0.1623	0.0850	0.1613	0.0000
1 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0033	0.0877	0.0671	0.1967	0.2286	0.1495	0.1055	0.1613	0.0000
1 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000
1 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0747	0.0171	0.0000	0.0000	0.0000	0.9081
2 24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0027	0.0859	0.0694	0.1967	0.1840	0.1941	0.1055	0.1613	0.0000

## 2030 SCENARIO FILES – MOBILE 6.2 INPUT FILE

```
MOBILE6 INPUT FILE :
*updated 4/6/2005, DLM
> Vigo County 2030
* Vigo County 2030
POLLUTANTS          : HC CO NOx
REPORT FILE         : VIGO2030.txt

EMISSIONS TABLE    : vigo2030.tbl

RUN DATA
> Vigo County 2030
MIN/MAX TEMP        : 65. 87.3
FUEL RVP            : 9.0
EXPRESS HC AS VOC   :
NO REFUELING        :
REG DIST            : Regvigo.d
VMT BY FACILITY      : 2030fvmt.def
VMT BY HOUR         : Hvmtvigo.def
SPEED VMT           : 2030Svmt.def

SCENARIO RECORD     : Scenario Title : Vigo County 2030
> Vigo County 2030
* This text is for annotating this file and is otherwise ignored.
CALENDAR YEAR       : 2030
EVALUATION MONTH    : 7

ABSOLUTE HUMIDITY    : 93.7
CLOUD COVER         : 0.34

SUNRISE/SUNSET      : 6 8

END OF RUN
```

## 2030 SCENARIO FILES – MOBILE 6.2 OUTPUT FILE

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: VIGO2030.IN (file 1, run 1). *
*****
* Vigo County 2030
M603 Comment:
      User has disabled the calculation of REFUELING emissions.

* Reading Registration Distributions from the following external
* data file: REGVIGO.D
M 49 Warning:
      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:
      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:
      1.00      MYR sum not = 1. (will normalize)

* Reading Hourly Roadway VMT distribution from the following external
* data file: 2030FVMT.DEF

      Reading User Supplied ROADWAY VMT Factors

* Reading Hourly VMT distribution from the following external
* data file: HVMTVIGO.DEF

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: 2030SVMT.DEF

* #####
* Scenario Title : Vigo County 2030
* File 1, Run 1, Scenario 1.
* #####
* Vigo County 2030
M617 Comment:
      User supplied alternate AC input: Cloud Cover Fraction set to 0.34.
M618 Comment:
      User supplied alternate AC input: Sunrise at  6 AM, Sunset at  8 PM.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12

      Calendar Year:  2030
      Month:         July
      Altitude:      Low
      Minimum Temperature: 65.0 (F)
      Maximum Temperature: 87.3 (F)
      Absolute Humidity:  94. grains/lb
      Nominal Fuel RVP:   9.0 psi
      Weathered RVP:     8.7 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: No
      Evap I/M Program:   No
      ATP Program:        No
      Reformulated Gas:   No

      Vehicle Type:      LDGV      LDGT12      LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV      MC      All Veh
      GVWR:              <6000      >6000      (All)
      VMT Distribution:  0.2698      0.4320      0.1630      0.0374      0.0002      0.0024      0.0898      0.0053      1.0000

Composite Emission Factors (g/mi):
Composite VOC :      0.407      0.425      0.489      0.442      0.279      0.051      0.106      0.223      2.42      0.416
Composite CO  :      6.77      7.29      7.82      7.43      7.68      0.630      0.341      0.249      16.57      6.645
Composite NOX :      0.251      0.330      0.416      0.354      0.194      0.032      0.139      0.692      1.18      0.354
-----
```

## **APPENDIX D**

### **PUBLIC PARTICIPATION DOCUMENTATION**

## Department of Environmental Management

Indianapolis

### OFFICE MEMORANDUM

Date: May 12, 2005

To: Interested Parties

From: Kathryn Watson *KW*  
Branch Chief, Office of Air Quality

Subject: Redesignation Petition and Maintenance Plan for Vigo County.

At the conclusion of the 2004 ozone season, all monitors within Vigo County measured air quality that meets the ambient air quality standard for ozone. Therefore, in accordance with the Clean Air Act, the Indiana Department of Environmental Management (IDEM) has prepared a draft redesignation petition and maintenance plan for Vigo County in association with the eight-hour air quality standard for ozone. IDEM plans to submit the redesignation petition and maintenance plan to the U.S. Environmental Protection Agency and formally request that Vigo County be redesignated to attainment and classified as "maintenance" under the eight-hour air quality standard for ozone. IDEM is making available a draft of this document for public review and comment beginning May 13, 2005.

IDEM has scheduled a public hearing concerning the draft redesignation petition and maintenance plan for Tuesday, June 14, 2005 at 6:00 p.m. (local time) in the Conference Room of the Vigo County Annex Building, Located at 120 Oak Street, Terre Haute, Indiana. Written comments may also be submitted to IDEM, but must be received by Friday, June 17, 2005. Comments may be faxed to (317) 233-5967, to the attention of Kathryn Watson, and mailed comments should be addressed to:

Vigo County Redesignation Petition and Maintenance Plan  
Kathryn Watson, Chief  
Air Programs Branch, Office of Air Quality - Mail Code 61-50  
100 N. Senate Ave.  
Indiana Department of Environmental Management  
Indianapolis, IN 46206-2251



The draft document also is available on IDEM's web site (<http://www.in.gov/idem/air>), or may be reviewed and copied at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate, Room N1003, Indianapolis, Indiana.
- Vigo County Air Pollution Control Agency, 103 South Third Street, Terre Haute, Indiana.
- Vigo County Public Library, One Library Square, Terre Haute, Indiana

If you have any questions, you may contact me at (317) 233-5694 or [kwatson@idem.in.gov](mailto:kwatson@idem.in.gov), or Krista Gremos at (317)233-5680 or [kgremos@idem.in.gov](mailto:kgremos@idem.in.gov)

**LEGAL NOTICE OF PUBLIC HEARING**  
**Redesignation Petition and Maintenance Plan**  
**in association with the 8 hour ozone standard,**  
**for Vigo County.**

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, June 14, 2005. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for Vigo County. The meeting will convene at 6:00 p.m. (local time) in the Conference Room of the Vigo County Annex Building, located at 120 Oak Street, Terre Haute, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (USEPA) guidance.

Copies of the draft documents are available to any person upon request and will be available for public inspection beginning May 13, 2005 at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate, Room N1003, Indianapolis, Indiana.
- Vigo County Air Pollution Control Agency, 103 South Third Street, Terre Haute, Indiana.
- Vigo County Public Library, One Library Square, Terre Haute, Indiana.

Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

IDEM will also accept written comments through June 17, 2005. Mailed comments should be addressed to:

Vigo County Redesignation Petition and Maintenance Plan  
Kathryn Watson, Chief  
Air Programs Branch, Office of Air Quality – Mail Code 61-50  
100 North Senate Avenue  
Indiana Department of Environmental Management  
Indianapolis, IN 46206-2251

A transcript of the hearing and all written submissions provided at the public hearing shall be open to public inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing.

For additional information contact Krista Gremos, at the Indiana Department of Environmental Management, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 233-5680 or (800) 451-6027 ext. 3-5680 (in Indiana).

Kathryn Watson, Chief  
Air Programs Branch  
Office of Air Quality

\*\*\*\*\*

*Individuals requiring reasonable accommodations for participation in this hearing should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:*

Attn: ADA Coordinator  
Indiana Department of Environmental Management – Mail Code 50-10  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

*Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.*

IND DEPT OF ENVIRONMENTAL MGMT

XI16

To:

EVANSVILLE COURIER/PRESS Dr.

**LEGAL NOTICE OF PUBLIC HEARING**  
Redesignation Petition and Maintenance Plan  
in association with the 8 hour ozone standard,  
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Kathryn Watson, Chief  
Air Programs Branch  
Office of Air Quality

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Attn: ADA Coordinator  
Indiana Department of Environmental Management - Mail Code 60-10  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

(COURIER & PRESS MAY 13, 2005)

(Government Unit)

VANDERBURGH COUNTY

, Indiana

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Personally appeared before me, a notary public in and for said county and state, the undersigned who, being duly sworn, says that she is Legal Clerk of the Evansville Courier & Press and that the printed matter attached hereto is a true copy, which was duly published in said paper for time(s), the dates of publication being as follows:

May 13, 2005

Subscribed and sworn to before me this

20<sup>th</sup> day of May

2005

NOTARY RESIDENT OF VANDERBURGH COUNTY

My commission expires:

9/24/2010



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Mitchelle E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

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Date: May 9, 2005

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Fax: 812-464-7487

**FILE**

**ATTENTION: PUBLIC NOTICES - LEGAL ADVERTISING SECTION**

Enclosed please find Indiana Department of Environmental Management Public Hearing Legal Notices(s) concerning Air Pollution Control Board Rules.

Please print **ONE TIME** on or before **FRIDAY, MAY 13, 2005**, in order for us to satisfy our statutory requirements.

Please send a notarized form no. 99p and/or publisher's claim, together with the clipping, showing the date of publication and your Federal ID number to:

**MAIL TO:**

Attn: Karol Chuma, Room N1001  
Indiana Department of Environmental Management  
100 N. Senate Avenue, Mail Code 61-50  
Indianapolis, Indiana 46206

If you have any questions, please call me at 317-233-0426. Thank you.

Sincerely,

Karol T. Chuma  
Rules Development Section  
Office of Air Quality

Enclosures

**For Office Use Only**

**LEGAL NOTICE OF PUBLIC HEARING**

Redesignation Petition and Maintenance Plan In  
Association With The 8 Hour Ozone Standard, For Vigo  
County

Attn: Scott Deloney & Sandra Robinson

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**in association with the 8 hour ozone standard,**  
**for Vigo County.**

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, June 14, 2005. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for Vigo County. The meeting will convene at 6:00 p.m. (local time) in the Conference Room of the Vigo County Annex Building, located at 120 Oak Street, Terre Haute, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (USEPA) guidance.

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Kathryn Watson, Chief  
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100 North Senate Avenue  
Indiana Department of Environmental Management  
Indianapolis, IN 46206-2251

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For additional information contact Krista Gremos, at the Indiana Department of Environmental Management, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 233-5680 or (800) 451-6027 ext. 3-5680 (in Indiana).

Kathryn Watson, Chief  
Air Programs Branch  
Office of Air Quality

\*\*\*\*\*

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Attn: ADA Coordinator  
Indiana Department of Environmental Management – Mail Code 50-10  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

*Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.*

**TO: ACCOUNTING**  
**IGCN - Room 1345**

**FROM: KAROL T. CHUMA**  
**IGCN - 1001**  
**RULES SECTION**  
**OFFICE OF AIR QUALITY**

**DATE:** May 9, 2005

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5/23

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(Governmental Unit)  
Clark County, Indiana

From: The Evening News  
221 Spring St. P.O. Box 867  
Jeffersonville, IN 47130

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Title: Legal Bookkeeper

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06507505

PUBLISHER'S AFFIDAVIT

State of Indiana )

) ss:

Clark County )

Personally appeared before me, a notary public in and for said county and state, the undersigned Selenok Timberlake who, being duly sworn, says that she is legal bookkeeper of The Evening News newspaper of general circulation printed and published in the English language in the (city) of Jeffersonville in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time 1, the dates of publication being as follows:

May 13, 2005

Subscribed and sworn to before me this 18<sup>th</sup> day of May, 2005

Joann Hall Notary Public  
JOANN GALLIGAN

My commission expires: September 9, 2006



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

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Clark County Evening News  
221 Spring Street  
Jeffersonville, Indiana 47130

Date: May 9, 2005

**FILE**

Phone: 812-283-6636  
Fax: 812-283-1150

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**MAIL TO:**

**Attn: Karol Chuma, Room N1001  
Indiana Department of Environmental Management  
100 N. Senate Avenue, Mail Code 61-50  
Indianapolis, Indiana 46206**

If you have any questions, please call me at 317-233-0426. Thank you.

Sincerely,

Karol T. Chuma  
Rules Development Section  
Office of Air Quality

Enclosures

**For Office Use Only**

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**FROM: KAROL T. CHUMA**  
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**OFFICE OF AIR QUALITY**

**DATE:** May 9, 2005

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(Clark City)

**The attached invoice for publication of**  
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**ACCOUNT # 3610/140900**

## ENVIRONMENTAL MANAGEMENT

MARION COUNTY, INDIANA

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## LEGAL NOTICE

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Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for Vigo County.

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, June 14, 2005. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for Vigo County. The meeting will convene at 6:00 p.m. (local time) in the Conference Room of the Vigo County Annex Building, located at 120 Oak Street, Terre Haute, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (USEPA) guidance. Copies of the draft documents are available to any person upon request and will be available for public inspection beginning May 13, 2005 at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate, Room 1100S, Indianapolis, Indiana.
- Vigo County Air Pollution Control Agency, 103 South Third Street, Terre Haute, Indiana.
- Vigo County Public Library, One Library Square, Terre Haute, Indiana.

Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing. IDEM will also accept written comments through June 17, 2005. Mail comments should be addressed to: Vigo County Redesignation Petition and Maintenance Plan, Kathryn Watson, Chief, Air Programs Branch, Office of Air Quality - Mail Code 61-50, 100 North Senate Avenue, Indiana Department of Environmental Management, Indianapolis, IN 46206-2251. A transcript of the hearing and all written submissions provided at the public hearing shall be open to public inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing.

For additional information contact Krista Grenos, at the Indiana Department of Environmental Management, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 233-5680 or (800) 451-6027 ext. 3-5680 (in Indiana).

Kathryn Watson, Chief, Air Programs Branch, Office of Air Quality.

Individuals requiring reasonable accommodations for participation in this hearing should contact the IDEM Americans with Disabilities Act (ADA) coordinator at: Attn: ADA Coordinator, Indiana Department of Environmental Management - Mail Code 50-10, 100 North Senate Avenue, Indianapolis, IN 46204-2251. Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification. (S-5/11-3795047)

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I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

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*Karen Mullins* Clerk  
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State of Indiana SS:  
MARION County

Personally appeared before me, a notary public in and for said county and state,

the undersigned Karen Mullins who, being duly sworn, says that SHE is clerk

of the INDIANAPOLIS NEWSPAPERS a DAILY STAR newspaper of general circulation

printed and published in the English language in the city of INDIANAPOLIS in state

and county aforesaid, and that the printed matter attached hereto is a true copy,

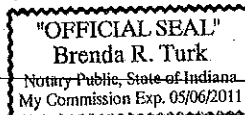
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05/11/2005 and 05/11/2005

*Karen Mullins* Clerk  
Title

Subscribed and sworn to before me on 05/11/2005

*Brenda R. Turk* Notary Public



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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Mitchelle E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

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(800) 451-6027  
www.IN.gov/idem

Indianapolis Star & News  
P.O. Box 145  
Indianapolis, Indiana 46204

Date: May 9, 2005

**FILE**

Phone: 317-444-7163  
Fax: 317-444-8806

ATTENTION: PUBLIC NOTICES - LEGAL ADVERTISING SECTION

Enclosed please find Indiana Department of Environmental Management Public Hearing Legal Notices(s) concerning Air Pollution Control Board Rules.

**Pease print one time, on or before FRIDAY, MAY 13, 2005**, in order for us to satisfy our statutory requirements.

Please send a notarized form no. 99p and/or publisher's claim, together with the clipping, showing the date of publication and your Federal ID number to:

**MAIL TO:**

**Attn: Karol Chuma, Room N1001  
Indiana Department of Environmental Management  
100 N. Senate Avenue, Mail Code 61-50  
Indianapolis, Indiana 46206**

If you have any questions, please call me at 317-233-0426. Thank you.

Sincerely,

Karol T. Chuma  
Rules Development Section  
Office of Air Quality

Enclosures

**For Office Use Only**

**LEGAL NOTICE OF PUBLIC HEARING**

Redesignation Petition and Maintenance Plan In  
Association With The 8 Hour Ozone Standard, For Vigo  
County

Attn: Scott Deloney & Sandra Robinson



**TO: ACCOUNTING**  
**IGCN - Room 1345**

**FROM: KAROL T. CHUMA**  
**IGCN - 1001**  
**RULES SECTION**  
**OFFICE OF AIR QUALITY**

**DATE:** May 9, 2005

**Note: Please send a copy of the paid**  
**publication to** Indianapolis

Star & News

**The attached invoice for publication of**  
**public notice is approved for payment.**

**ACCOUNT # 3610/140900**

1  
2  
3 REQUEST FOR REDESIGNATION AND  
4 MAINTENANCE PLAN FOR  
5 OZONE ATTAINMENT  
6 IN THE 8-HOUR OZONE BASIC  
7 NONATTAINMENT AREA

8 \* \* \* \* \*

9 VIGO COUNTY, INDIANA

10 \* \* \* \* \*

11 Developed By:

12 The Indiana Department Of Environmental Management

13 \* \* \* \* \*

14  
15 Date: June 14, 2005

16 Time: 6:00 p.m.

17 Place: Vigo County Annex  
18 120 Oak Street  
Terre Haute, Indiana

19  
20 Appearing on Behalf of IDEM: Scott A. Deloney  
21 Krista Gremos  
22 Shawn Seals  
23 Gale Ferris

24 ACCURATE REPORTING OF INDIANA  
25 Renee R. Dobson, RMR  
12922 Brighton Avenue  
Carmel, IN 46032  
(317) 848-0088

ACCURATE REPORTING OF INDIANA

 **COPY**

P R O C E E D I N G S

MS. KRISTA GREMOS:

This is a public hearing to accept comments concerning the draft Redesignation Petition and Maintenance Plan in association with the 8-hour ozone standard for the Terre Haute Area. This hearing is being held to conform to the provisions in 40 CFR Part 51 regarding public hearings for State Implementation Plan submittals.

My name is Krista Gremos. I am an Environmental Manager for the Modeling and Technical Support Section of the Indiana Department of Environmental Management's Office of Air Quality. I have been appointed to act as hearing officer for this public hearing. Also here from the Department of Environmental Management are Scott Deloney, Shawn Seals, and Gale Ferris.

Notice of the time and place of the hearing was given as provided by law by publication in the following newspapers:

- 1) The Indianapolis Star, Indianapolis
- 2) The Evansville Courier, Evansville
- 3) The Fort Wayne Journal Gazette, Fort Wayne
- 4) The Clark County Evening News, Jeffersonville
- 5) The Tribune Star, Terre Haute.

The purpose of this public hearing is to provide



1 interested persons an opportunity to offer comments to  
2 the State regarding the draft Redesignation Petition and  
3 Maintenance Plan for the Terre Haute Area.

4 Appearance blanks have been distributed in the  
5 hearing room for all those desiring to be shown appearing  
6 on record in this cause. If you have not already filled  
7 out the form, please do so and indicate if you are  
8 appearing for yourself or on behalf of a group  
9 organization and identify such group or organization.  
10 Also, note the capacity in which you appear such as  
11 attorney, officer, or authorized spokesperson.

12 Any person who is heard or represented at this  
13 hearing or who requests notice may be given written  
14 notice of the final action taken on this State  
15 Implementation Plan submittal. Please indicate on the  
16 appearance card if you wish to receive this notification.  
17 When appearance cards have been completed, they should be  
18 handed to me, and I will include them with the official  
19 record of this proceeding.

20 Oral statements will be heard, but written  
21 statements may be handed to me or mailed to the Office of  
22 Air Quality on or before close of business on June 17th,  
23 2005. A written transcript of this hearing is being  
24 made. The transcript will be open for public inspection,  
25 and a copy of the transcript will be made available to

1 any person upon payment of the copying cost.

2 After the conclusion of this public hearing, I will  
3 prepare a written report summarizing the comments  
4 received at this hearing and recommending changes which  
5 may need to be made to this document.

6 I would like to introduce the following documents  
7 into the record:

8 1) The notice of public hearing.

9 2) Draft Redesignation Petition and Maintenance  
10 Plan for the Terre Haute Area.

11 Finally, I would like to briefly go over the  
12 contents of the draft document.

13 In 1997 the United States Environmental Protection  
14 Agency established a new, more stringent standard for  
15 ozone, referred to as the 8-hour ozone standard. The  
16 standard itself was established at .08 parts per million  
17 measured over an eight-hour period. Within the  
18 Guidelines on Data Handling Conventions for the 8-Hour  
19 Ozone NAAQS, published by the U.S. EPA in December of  
20 1998, the U.S. EPA established parts per million, or ppm,  
21 and three significant figures as the basis for  
22 computation of 8-hour ozone concentrations. In  
23 accordance with this guidance, three significant digits  
24 are used to determine an area's design value and for  
25 conducting attainment tests. Specifically, because the

1 third decimal digit is rounded, 0.084 ppm is the largest  
2 concentration that is less than or equal to the standard  
3 of 0.08 ppm. Therefore, an ozone concentration equal to  
4 or greater than .085 parts per million is considered to  
5 be above or in violation of the standard.

6 Legal challenges to the new standard for ozone  
7 resulted in delayed implementation of the standard until  
8 February of 2001 when the Supreme Court ruled that the  
9 U.S. EPA could proceed with the implementation of the new  
10 standard, providing that the U.S. EPA's implementation is  
11 consistent with the Clean Air Act. The U.S. EPA's first  
12 action in implementing the new standard for ozone was to  
13 designate areas throughout the country as attainment,  
14 nonattainment, or unclassifiable. The Terre Haute Area,  
15 specifically Vigo County, was designated nonattainment  
16 under the 8-hour ozone standard on April 15th, 2004.  
17 This designation was based on a monitored design value of  
18 .087 parts per million. This design value derived from  
19 an average of the annual fourth highest ozone values over  
20 the previous three years, those being 2001 through 2003.  
21 At the conclusion of the 2004 ozone season, all monitors  
22 within the Terre Haute Area measured air quality that  
23 meets the ambient air quality standards for ozone. The  
24 most recent design value for the area is .083 parts per  
25 million, which is based on an average of the annual

1 fourth highest ozone values for the years 2002 through  
2 2004. This design value represents ozone concentrations  
3 that are below the national ambient air quality standard;  
4 thus, the area is eligible to be redesignated to  
5 attainment under the 8-hour ozone standard and classified  
6 as maintenance.

7 The Indiana Department of Environmental Management  
8 has prepared the Draft Redesignation Petition and  
9 Maintenance Plan for the Terre Haute Area in accordance  
10 with U.S. EPA guidance. The draft petition outlines a  
11 demonstration that the area has attained the standard  
12 based on monitored concentrations, and that the  
13 reductions in monitored concentrations are attributable  
14 to permanent and enforceable reductions in precursor  
15 emissions, specifically reductions of both volatile  
16 organic compounds and oxides of nitrogen. Furthermore,  
17 the draft maintenance plan outlines the following:

18 - Precursor emissions of volatile organic compounds  
19 and oxides of nitrogen will continue to decline into the  
20 future.

21 - Due to existing and future emission controls, the  
22 area's air quality is not projected to worsen and should  
23 improve further over time.

24 - A commitment for all existing emission controls to  
25 remain in place.

1           - A commitment to revise the plan within eight years  
2 of redesignation.

3           - A commitment to adopt and expeditiously implement  
4 necessary corrective actions if a warning or action level  
5 response is triggered.

6           - A warning level response is triggered by a  
7 1-year fourth high monitor value of .088 parts per  
8 million.

9           - An action level response is triggered by a  
10 2-year average fourth high monitor value of .085 parts  
11 per million.

12           A mobile source emissions budget for transportation  
13 conformity purposes.

14           This concludes my comments regarding the draft  
15 Redesignation Petition and Maintenance Plan for the Terre  
16 Haute Area.

17           This hearing is now open for public comment. Are  
18 there any public comments?

19           In the absence of any further comments, these  
20 proceedings are hereby concluded. This hearing is  
21 adjourned.

22                   (EXHIBITS 1 & 2 ATTACHED)

23                   \*   \*   \*   \*   \*   \*   \*   \*

24                   PUBLIC HEARING CONCLUDED

25                   \*   \*   \*   \*   \*   \*   \*   \*

1 STATE OF INDIANA )  
2 COUNTY OF VIGO ) SS:  
3

4 I, Renee R. Dobson, a Notary Public in and for said  
5 county and state, do hereby certify that the foregoing public  
6 hearing was taken down in Stenograph notes and afterwards  
7 reduced to typewriting under my direction; and that the  
8 typewritten transcript is a true and accurate record of the  
9 public hearing given by said speakers;

10 IN WITNESS WHEREFORE, I have hereunto set my hand and  
11 affixed my notarial seal this 22<sup>nd</sup> day of  
12 June, 2005.  
13

14  
15  
16 Renee R. Dobson, RMR  
17 Renee R. Dobson, Notary Public,  
18 Residing in Vigo County, Indiana

19 My Commission Expires:  
20 September 1, 2007  
21  
22  
23  
24  
25