

US EPA ARCHIVE DOCUMENT

# **9<sup>th</sup> Semi-Annual Report: The Early Action Compact for the San Antonio Region**

**June 2007**

**Prepared by the Alamo Area Council of Governments**

**This document was provided for initial review by the public and the Air Improvement Resources (AIR) Technical Committee on May 12, 2007. The document was approved by the AIR Technical Committee on June 11, 2007 and by the AIR Executive/Advisory Committees on June 13, 2007.**

**Final Document Due On or Before June 30, 2007**



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Title:</b> 9 <sup>th</sup> Semi-Annual Report: The Early Action Compact for the San Antonio Region                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | <b>Report Date:</b> June 30, 2007                                                                                    |
| <b>Authors:</b><br>Donna Hessong and the AACOG Natural Resources/Transportation Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                | <b>Type of Report:</b><br>Semi-Annual or Biannual Report                                                             |
| <b>Performing Organization Name and Address:</b><br>Alamo Area Council of Governments<br>8700 Tesoro Drive, Suite 700<br>San Antonio, TX 78217                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | <b>Period Covered:</b><br>January 2007 – June 2007                                                                   |
| <b>Sponsoring Agencies Name &amp; Address:</b><br>San Antonio – Bexar County Metropolitan Planning Organization, 1021 San Pedro, San Antonio, TX 78212<br>Texas Commission on Environmental Quality, 12100 Park 35 Circle, Austin, TX 78753                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | <b>Approved by:</b><br>AIR Executive/Advisory Committees, San Antonio, Texas                                         |
| <b>Abstract:</b><br><p>Protocol for the Early Action Compact (EAC) stipulates that areas participating in the compact will assess and report their progress against milestones every six months. This report contains the progress made towards the required milestones for the San Antonio EAC region (SAER) from January 2007 through June 2007. Several milestones were accomplished during this timeframe. Emission Inventory (EI) and modeling milestones include updated to the 2005 EI, geo-coding of these emissions, updates to the 1999 photochemical model base case, and emissions control strategy modeling. Progress of the Alamo Clean Air Partnership, Clean Cities, Adopt A School Bus program, and Transportation Emissions Reductions Measures (TERMs) projects met milestones for voluntary and State Implementation Plan (SIP) credit control strategies for the San Antonio region. Additional public outreach efforts include media related services, presentations, events, and the distribution of outreach materials. Maintenance of growth and air quality planning milestones were met in the SAER by continued efforts in emissions assessments and analysis of new strategy requirements, such as additional emissions reduction measures. Attached to this report are Appendices for Outreach Efforts, TERMS projects, a list of new major point source air permits in or around the EAC region, 2005 EI progress, and a progress report regarding EAC milestone achievements.</p> |                                |                                                                                                                      |
| <b>Related Reports:</b><br>8 <sup>th</sup> Semi-Annual Report: The Early Action Compact for the San Antonio Region                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Distribution Statement:</b> | <b>Permanent File:</b><br>The Natural Resources / Transportation Department of the Alamo Area Council of Governments |



## Table of Contents

### Chapter 1 – Introduction

### Chapter 2 – Early Action Compact Milestones

#### 2.1 Emissions Inventory Milestones

##### 2.1.1 New Methodology for Area or Nonroad Source Emission Calculations

#### 2.2 Modeling Milestones

##### 2.2.1 Photochemical Modeling Updates

##### 2.2.2 Emissions Control Strategy Modeling & Analysis

#### 2.3 Control Strategy Development Milestones

##### 2.3.1 Alamo Area Clean Cities

##### 2.3.2 Alamo Adopt A School Bus

##### 2.3.3 Alamo Clean Air Partnership

##### 2.3.4 Texas Emission Reduction Plan

##### 2.3.5 Transportation Emission Reduction Measures (TERMs)

#### 2.4 Maintenance for Growth Milestones

##### 2.4.1 Updating the Planning Process

##### 2.4.2 New Strategy Requirements

#### 2.5 Public Involvement Milestones

##### 2.5.1 Media

##### 2.5.2 Other Outreach Efforts

##### 2.5.3 Public Meetings/Clean Air Plan Workshops

### Chapter 3 – Conclusion

#### APPENDIX A – OUTREACH EFFORTS

#### APPENDIX B – TRANSPORTATION EMISSION REDUCTION MEASURES (TERMs)

#### APPENDIX C – BUSINESS OF AIR RESULTS

#### APPENDIX D – CLEAN AIR GAUGE WITH DETAIL

## List of Tables and Figures

### Chapter 1 – Introduction

None

### Chapter 2 – Early Action Compact Milestones

Table 1. Spatial Allocation Surrogates for Construction Equipment Geocode

Table 2. TERMS Project Completion Status as of December 2006

Figure 1. A Section from the AACOG Take Out Air Pollution Webpage

Figure 2. View of Homepage for the [www.CleanAirDrive.com](http://www.CleanAirDrive.com) Website

### Chapter 3 – Conclusion

None



## ***Executive Summary***

As required by the Early Action Compact (EAC), areas that are participating in this early voluntary 8-hour air quality planning process must assess and report their progress in achieving EAC milestones on a regular basis, through a public process, at least every six months or semi-annually. This document fulfills these requirements for the ninth semi-annual (January through June 2007) period for the San Antonio EAC region.

Emissions Inventory (EI) and modeling progress for the reporting period include continued development of the 2005 EI (as required for emissions trend analysis), updates to the 1999 photochemical model base case, and control strategy analyses. In meeting this milestone, emissions were estimated and geo-coded for 2005 emissions inventory sources according to Environmental Protection Agency (EPA) approved methodologies. These emissions included area, nonroad, and military sources. In addition, methodologies were refined to include more local data and additional source categories when either became available. Emissions control strategy modeling included analyses on plug-in hybrids and the use of a heavy-duty diesel vehicle (HDDV) anti-idling ordinance in the City of San Antonio (CoSA). In addition, an evaluation of on-road air quality control strategies was conducted comparing Stage II vapor recovery systems, NOx Highway Rule, and the California LEV II standard.

Continued progress of control strategies creditable within a State Implementation Plan (SIP) context include progress in the Texas Emissions Reduction Plan (TERP) and Transportation Emission Reduction Measures (TERMs) projects. The Texas Commission on Environmental Quality (TCEQ) opened an application period for TERP projects for the fiscal year (FY) 2007 2<sup>nd</sup> round, during April and May 2007. The completion dates for TERMS projects were updated or added where applicable by Alamo Area Council of Governments (AACOG) staff. TERMS projects listed in the original March 2004 submission of the local revisions to the SIP were to be completed by December 31, 2007. The TERMS list is reviewed on an ongoing basis to determine where new projects should be substituted in the event projects are not anticipated to complete by December 31, 2007.

Voluntary control strategy development continues with progress marked by the Alamo Area Clean Cities (AACC) program, Alamo Adopt A School Bus program, and the Alamo Clean Air Partnership (ACAP) program. AACOG staff conducted a Compressed Natural Gas (CNG) workshop in February. On May 31<sup>st</sup> San Antonio City Council voted and approved the purchase of 15 CNG-powered refuse trucks. Staff also hosted a meeting by the City of San Antonio Police Department Ground Transportation Unit to discuss the proposed hybrid taxi ordinance; this ordinance would work in coordination with the TCEQ's "Texas Green & Go" Partnership. The city council subsequently passed the hybrid taxi ordinance on May 17, 2007.

AACOG staff continued to promote the Alamo Adopt A School Bus program with updates to the Green Patrol program. The program officially began on April 5, 2007 with 161 parents and teachers pledging to refrain from idling their vehicle engines. AACOG outreach staff continued to actively seek new partners for participation in the ACAP program. The partnership list now includes 23 local entities dedicated to improving air quality in the San Antonio region. AACOG staff updated the "Take Out Air Pollution" and Clean Air Drive programs with new interactive webpages. The concept of a Clean Air Gauge was included on the Clean Air Drive webpage to visually display where the EAC region currently stands in meeting federal air quality standards.

Public involvement and outreach continues to be an important component of the San Antonio regional Clean Air Plan. Air quality information is disseminated to the public through a variety of media categories -- newspaper, Internet, TV, and radio -- in order to reach as large and diverse

an audience as possible. The public involvement milestone is also advanced through local programs and events in which the public is informed of air quality issues, health consequences, and measures that reduce air pollution. AACOG staff along with Chamber of Commerce representatives introduced a seminar series called the Business of Air. The first seminar in this series was held in May and focused on the essentials of air quality as it relates to the business community; how ozone is formed, relevant air quality rules, San Antonio's current status and, in broad strokes, likely policy impacts should the region be declared non-attainment under federal 8-hour average ozone air quality standards. In addition, the Commute Solutions program is improving the rideshare matching system by switching to a web-based system called Greenride. A four-year contract was signed for services in San Antonio, New Braunfels, San Marcos, and Austin areas.

Under the heading of Maintenance for Growth, local air quality planners are working to ensure the attainment of the eight-hour average ozone (8-hour ozone) National Ambient Air Quality Standard (NAAQS) by reviewing growth and emissions inventory patterns to determine the projected status of the region. At this time, it is unsure as to whether the SAER will be in attainment by the end of 2007. As specified in the New Strategy Requirements milestone, local air quality planners are investigating possible measures to ensure San Antonio reaches attainment.

The San Antonio region has successfully maintained steady progress in accomplishing EAC milestones from January to June 2007, ensuring proper development of the Clean Air Plan.

## Chapter 1 – Introduction

The Early Action Compact protocol is designed to guide development and implementation of control strategies, including planning for near-term growth, in order to achieve and maintain the 8-hour ozone standard. This compact offers a timeline with a more rapid timeframe for achieving emission reductions than the EPA 8-hour implementation rulemaking<sup>1</sup>, while providing "fail-safe" provisions for the area to revert to traditional nonattainment processes if specific milestones are not met. The EAC agreement signed by the EPA, the Texas Commission on Environmental Quality (TCEQ), and local elected officials is available online at: <http://www.aacog.com/cap/>.

As required by EAC guidance, areas participating in early voluntary 8-hour air quality plans must assess and report their progress in achieving EAC milestones in a regular, public process every six months. This document will fulfill the requirement for the ninth semi-annual progress report written for the San Antonio EAC.

The milestones in this report which are described in the EAC are:

- Completion of and updates to emissions inventories as outlined in section b), Emissions Inventory;
- Completion of and updates to modeling as outlined in section c), Modeling;
- Post-attainment demonstration and plan updates as outlined in section e), Maintenance for Growth;
- Continued public involvement in the planning process which will be conducted as outlined in section f), Public Involvement. This is in addition to the public reporting conducted at least once every six months, as outlined above.

---

<sup>1</sup> Federal Register / Vol. 68, No. 105 / Monday, June 2, 2003 / Proposed Rules; 40 CFR Part 51; Proposed Rule To Implement the 8-Hour Ozone National Ambient Air Quality Standard; see "2. What Is the 'Early Action Compact' for Implementing the 8-Hour Ozone NAAQS," page 32859. Available online: <http://www.epa.gov/fedrgstr/EPA-AIR/2003/June/Day-02/a13240.pdf>



## Chapter 2 – Early Action Compact Milestones

The Early Action Compact (EAC) specifies milestone requirements and delivery dates based on the EAC Memorandum of Agreement (MOA).<sup>2</sup> The milestones are addressed in the sections that follow.

### 2.1 Emissions Inventory Milestones

The ongoing analysis of emissions in the San Antonio EAC Region (SAER) is an essential element in the maintenance of the Emissions Trend Analysis milestone of the Clean Air Plan. AACOG staff continues to develop the 2005 EI and has calculated emissions estimates for many area and nonroad source categories during the 6-month reporting period of this report. These included:

#### **Area Sources**

- Accidental Releases
- Agricultural Defoliant
- Architectural Surface Coating
- Asphalt Paving
- Breweries
- Commercial Cooking
- Degreasing
- Small Stationary Source Fossil Fuel Use
- Traffic Markings
- Wineries

#### **Nonroad Sources**

- Industrial Equipment
- Commercial Equipment
- Construction Equipment – Heavy Highway, Utility, Municipal, Commercial Construction, Residential, City/County Roads, TxDOT, Scrap Recycling, Landscaping, Brick and Stone, Trenches, Concrete, Skid Steer Loaders, Special Trade, Cranes, RT Forklifts, Municipal and County Operations, Manufacturing, Bore/Drill Rigs, Other, Agriculture, Pipeline, Toyota Manufacturing Facility
- Agricultural Equipment

#### **Airport/Military Sources**

- Completed all Military Bases

The 2005 Emissions Inventory described in this section is a deliverable to the TCEQ under the current biennial contract; the draft copy of the EI is due to TCEQ by August 2007.

#### 2.1.1 New Methodology for Area or Nonroad Source Emission Calculations

This section describes emission calculation methodology for any new categories that have been added since the AACOG 2002 EI or existing categories for which the methodology has been improved upon.

---

<sup>2</sup> Chapter V. Early Action Compact Memorandum of Agreement (MOA); available online: <http://www.aacog.com/cap/CAP2002.html#5>

### Construction Equipment

To calculate San Antonio's construction equipment population, surrogate factors were used to adjust Dallas equipment populations calculated in an Eastern Research Group (ERG) study.<sup>3</sup> This methodology was also used in previous studies conducted by ERG for the CAPCOG and Dallas/Fort Worth regions. To determine surrogate factors for the AACOG region, the Dallas data was divided into industry sectors that facilitated comparisons of industry trends and other data closely related to equipment populations. After emissions were calculated, the results were spatial allocated according to the following table.

Table 1. Spatial Allocation Surrogates for Construction Equipment Geocode

| Sector                        | Spatial Allocation Methodology                             |
|-------------------------------|------------------------------------------------------------|
| Heavy Highway                 | TxDOT and MPO Construction Dollar Value                    |
| Utility                       | CPS, BexarMET, and SAWS Construction Dollar Value          |
| Commercial Construction       | COSA and Bexar County Com. Building and Demolition Permits |
| Residential                   | COSA and Bexar County Residential Building Permits         |
| City/County Roads             | COSA and Bexar County Road Dollar Value                    |
| TxDOT                         | TxDOT and MPO Construction Dollar Value                    |
| Scrap Recycling               | Scrap and waste Materials Employment                       |
| Landscaping                   | EPA Default                                                |
| Brick and Stone               | Related construction materials Employment                  |
| Concrete                      | Block, brick, other, and ready-mix Employment              |
| Special Trade                 | COSA and Bexar County Commercial Building Permits          |
| Municipal and County-Op. Eq.  | COSA and Bexar County Road Dollar Value                    |
| Manufacturing                 | Manufacturing Employees                                    |
| Other                         | Total Construction Dollar Value                            |
| Agriculture                   | Location of Crops                                          |
| Toyota Manufacturing Facility | Location of Toyota Manufacturing Facility                  |

### Commercial Cooking (New Source Methodology)

Commercial cooking emissions were estimated based on the type of equipment typical for each restaurant. The restaurants fell into categories: Ethnic, Family, Fast Food, Seafood, Steak, & BBQ. The number of restaurants per category was determined for each type of cooking equipment. Multiplying the total number of the type of cooking equipment per county by the average pounds of meat cooked on that type of equipment per week yielded the total tons of the type of meat per week. The total ton of meat is then multiplied by the appropriate emission factor per type of meat to estimate the annual tons of emissions released per type of meat. The total annual emissions per type of meat are summed to obtain the total annual emissions from commercial cooking for each county.<sup>4</sup>

<sup>3</sup> Eastern Research Group, Inc. August 31, 2005. Ozone Science and Air Modeling Research Project H43T163: *Diesel Construction Equipment Activity and Emissions Estimates for the Dallas/Ft. Worth Region*. Austin, TX 78731.

<sup>4</sup> E.H. Pechan & Associates. December 2003. *Methods for Developing a National Emissions Inventory for Commercial Cooking Processes: Technical Memorandum*. El Dorado, CA.

## 2.2 Modeling Milestones

The photochemical model is a valuable tool available to air quality planners interested in understanding and reducing ground-level ozone concentrations. The photochemical model is a computer simulation of the formation and movement of ground-level ozone. Performing on-going modeling updates ensures that planners have the most accurate modeling data required for air quality planning activities. These updates may come in the form of refinements to past emissions inventories, creation of new emissions inventories for more recent years than the inventories used in past episodes, and continuing updates to the Conceptual Model.

### 2.2.1 Photochemical Model Updates

The 1999 photochemical model base case updates include the geo-coding of 2005 EI emissions; Appendix E contains the schedule for 2005 EI emission source geo-coding. The sources that were geo-coded during the July – December 2006 reporting period include the following:

- Military Bases
- Railroads
- Commercial Equipment
- Industrial Equipment
- Construction Equipment
- Agricultural Pesticides
- Agricultural Fertilizer
- Agricultural Defoliate
- Agricultural Equipment
- Degreasing
- Projecting On-Road mobile emissions to 2005 and 2012 from 2007

### 2.2.2 Emissions Control Strategy Modeling & Analysis

The AIR Executive/Advisory committees requested that several emissions control strategies be analyzed for possible reductions of 8-hr average ozone levels in the SAER. These strategies included the use of plug-in hybrids and a heavy-duty diesel idling ordinance. An analysis was also conducted comparing several on-road control strategies.

#### Heavy-duty Diesel Anti-idling Ordinance

Staff analysis shows that the implementation of an Anti-idling Ordinance could reduce emissions of VOC and NO<sub>x</sub> by 146 tons/yr (0.4 tons/day) and 474.5 tons/yr (1.30 tons/day), respectively, in the San Antonio region. The analysis was based on an idling limit of five minutes for heavy duty vehicles during their operation within Bexar County.<sup>5</sup>

#### Evaluation of On-road Air Quality Control Strategies

Evaluations of various air quality control measures were conducted as requested by AIR committee members. The report concluded that all studied measures were anticipated to have various degrees of positive impacts on the air quality of AACOG region.

- Implementation of Stage II vapor recovery could generate 78% emission reduction if the plan is implemented in 1 year in 2007. This control measure becomes less effective as more vehicles with ORVR system penetrate the market.
- The total amount of NO<sub>x</sub> reductions expected in 2009 from an expedited “Highway Rule” is 2.31 tons/day. As the numbers of cleaner diesel engines increase in the years beyond 2009, less NO<sub>x</sub> benefits is expected.

---

<sup>5</sup> Draft report - MPO UPWP (due to local MPO September 2007).

- The California LEV II was found more stringent than the Tier 2 and more suitable to the San Antonio region for its emphasis on reducing VOC emissions. The air quality benefits of LEV II are attributed mainly to this program's scheduling and phase-in cycles. An annual reduction of 2.55 tons of VOC and NOx in 2012 can be anticipated from adoption of LEV II.

### 2.3 Control Strategy Development Milestones

Enforceable state control strategies were put in place under the Early Action Compact at the request of local elected officials. The regional leadership is interested in ensuring that the greatest emissions reductions available through these measures are obtained. Efforts continue to verify that SIP creditable strategies are implemented as stated within the SIP.

In addition to control measures for which SIP credit can be obtained, **voluntary strategies** are also promoted and implemented in the San Antonio region. AACOG staff continues to encourage the adoption of voluntary measures through such programs as Commute Solutions, Clean Cities, and the Alamo Clean Air Partnership.

#### 2.3.1 Alamo Area Clean Cities

Through the Alamo Area Clean Cities (AACC) program, technical and outreach assistance is provided for alternative fuels and Clean Cities technologies (fuel blends, idle reduction technologies, hybrids, and fuel economy) to fleet operators in the San Antonio Early Action Compact Region.

##### Compressed Natural Gas Fleet Expansion

The City of San Antonio expressed interest in exploring the development of a CNG-powered heavy-duty refuse truck fleet. On February 16, AACOG hosted a CNG workshop for the City of San Antonio and other area stakeholders. AACOG staff received verbal commitment from the City of San Antonio as well as VIA and CPS to hold a follow-up meeting to discuss and begin consideration of an area-wide CNG refueling infrastructure plan.

In March, the City of San Antonio released a request for bids soliciting the purchase of CNG-fueled refuse trucks. On May 31<sup>st</sup>, the San Antonio City Council voted to approved the purchase of 15 CNG-powered refuse trucks and construction of a single CNG refueling station. This represents a major commitment by the City of San Antonio, making theirs the largest CNG-powered refuse fleet in Texas.

A Clean Cities "Advancing the Choice" event is scheduled for July 26th to explore further partnerships within the Alamo Area Clean Cities program. Potential partners include VIA Metropolitan Transit, CPS Energy, Waste Management, BFI, and two local school districts. The event will focus on natural gas uses in medium and heavy-duty vehicles. Sponsors at this time include Cummins/Westport, TYMCO, Clean Energy, and the Texas General Land Office (GLO). A goal of this event will be to explore extending the regional CNG fleet and refueling infrastructure by leveraging the city's groundbreaking efforts.

##### Hybrid Taxi Fleet in San Antonio

On February 22, AACOG hosted a meeting with the City of San Antonio Police Department Ground Transportation Unit and local taxi company owners to discuss the City-proposed hybrid taxi program. City of San Antonio officials were interested in developing a program that encourages greater use of hybrid vehicles as taxis. The meeting at AACOG was conducted to get input from the taxi companies and address issues/concerns, which could prevent the implementation of an effective program. The Alamo Area Clean Cities Coordinator provided a

presentation on hybrid vehicles that included information on the technology, benefits/costs, availability, and tax credits.

The City of San Antonio (CoSA) has since created an ordinance for the hybrid taxi program that was adopted by the City Council on May 17, 2007. The voluntary program will allow taxi fleets and owners to replace each non-hybrid taxi with two permits good only for a hybrid vehicle. The maximum number of hybrid taxi permits is limited to 52 permits annually. AACOG staff met with TCEQ and CoSA staff on June 12<sup>th</sup> to discuss "Texas Green & Go" designation. The City's hybrid taxi program will be recognized as the first "Texas Green & Go" partner in Texas. Plans continue for marketing and promotion of the recognition ceremony and the program itself.

The Texas Green & Go Partnership seeks to promote the benefits of efficient, lower-emitting hybrid-electric vehicles for taxi fleets and work to increase public awareness of hybrid-electric vehicles as a cleaner alternative to a 100% petroleum-fueled, internal combustion engine vehicle, practiced for both personal transportation and fleets. The Texas Green & Go Partnership is a project developed by TCEQ Commissioner Larry R. Soward.

### 2.3.2 Alamo Adopt A School Bus

AACOG staff promotes and coordinates the Alamo Adopt A School Bus (AASB) program, a cooperative partnership established to aid school districts in replacing their aging school bus fleets with new "clean fuel" buses. Achieving this goal requires educating school districts and corporations about the benefits of replacing older diesel buses with lower emission "clean fuel" buses. Efforts to reduce school bus emissions could also involve the combination of replacing and retrofitting buses with new technology to achieve NOx and PM reductions and the possible use of low-sulfur fuel.

#### Green Patrol

Green Patrol arose from the Adopt A School Bus program and is an idle reduction project that encourages parents and bus drivers to refrain from idling their vehicle engines for extended periods while dropping off and picking up school students. A pilot program was approved by the North East Independent School District in San Antonio and supported by the district's asthma educator. Staff presented information on the Green Patrol program to health representatives for nine school districts in San Antonio at the Asthma Action Summit in February. The Green Patrol Program officially kicked off on April 5 in conjunction with the start of the Region's Ozone Season. Currently, 161 parents and teachers have taken a pledge to refrain from idling their vehicle engines. An assessment will be conducted at the end of the pilot program to determine the success of the project.

### 2.3.3 Alamo Clean Air Partnership

The Alamo Clean Air Partnership (ACAP) program encourages voluntary emission reduction measures among the business and government sectors of the San Antonio region. Air pollution reduction measures implemented by current partners include a wide range of on-road, non-road, and point source strategies.

During the January through June 2007 timeframe, the primary focus of the program was on maximizing outreach efforts by partnering with business associations to promote ACAP. As an example, AACOG staff worked with the Greater San Antonio Chamber of Commerce to develop the "Business of Air" seminar series (see section 2.5.2).

AACOG partnered with the San Antonio-Bexar County Metropolitan Planning Organization to promote a series of Walk & Roll events in the region. The Walk & Roll campaign focuses on alternative forms of transportation -- carpooling, vanpooling, riding the bus, walking, and riding a bicycle – as opposed to single-occupant vehicle commutes. Several of the Walk & Roll events specifically targeted businesses and local governments. Nearly 100 of the largest employers in the region were invited to attend a Project Officer Rally on May 11, 2007 to kick off the Walk & Roll Corporate Challenge scheduled for June 1 – June 30, 2007. The Project Officer Rally provided staff an opportunity to distribute information about ACAP to major employers in the region. See Appendix A for Walk & Roll Corporate Challenge materials distributed at the Project Officer Rally.

*Current ACAP Members*

- H-E-B Grocery Company
- City of San Antonio
- Raba-Kistner Consultants, Inc.
- San Antonio Water System
- USAA
- Valero Energy Corporation
- Alamo Area Council of Governments

*Honorary ACAP Members:*

- Harlandale ISD
- San Antonio-Bexar County Metropolitan Planning Organization
- San Antonio College
- San Antonio Express-News
- Texas Department of Transportation, San Antonio District
- University of Texas at San Antonio
- CPS Energy
- VIA Metropolitan Transit
- Joven
- Bexar County
- Palo Alto College
- San Antonio Police Department
- Archdiocese of San Antonio
- Cemex
- AGUA/GEAA
- Trinity University

*Supporting Organizations:*

- The Greater San Antonio Chamber of Commerce
- The San Antonio Hispanic Chamber of Commerce

*Take Out Air Pollution:*

AACOG staff continues to promote ACAP through the “Take Out Air Pollution” campaign. The “TakeOut Menu,” which lists measures organizations can implement to reduce air pollution, was added to the agency’s web site.<sup>6</sup> Examples of TakeOut menu items include energy conservation (Figure 1) and employee carpool programs. Organizations participate in the campaign by implementing one or more measures listed in the TakeOut menu. AACOG staff

---

<sup>6</sup> Visit <http://www.cleanairstride.com/Takeout/Takeout.htm>

quantifies these measures in terms of emission reductions and adds the information to the voluntary emission reduction database.

Figure 1. A Section from the AACOG Take Out Air Pollution Webpage

CleanAirDrive.com

## Take Out Air Pollution

### 2007 Take Out Menu

| Fighter Fare                                                                                                       |                                                                                                 | Dollars & Sense                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Be an Energy Sage</b></p>  | <input type="checkbox"/> Turn off lights and appliances when not in use                         | <p>Savings vary depending on appliances in use, but consider this example. A ceiling fan does not actually change the temperature in a room; it just makes a person feel cooler because of the "wind chill factor." Leaving a fan turned on in an unoccupied room does nothing but waste electricity.</p> |
|                                                                                                                    | <input type="checkbox"/> Put your computer monitor to sleep                                     | <p>...save ~\$25.00/year per monitor<br/>Monitors can be set to turn off automatically when there is no computer activity for a specified amount of time. For details, visit the <a href="#">New American Dream's computer page</a>.</p>                                                                  |
|                                                                                                                    | <input type="checkbox"/> Replace incandescent light bulbs with compact fluorescent lamps (CFLs) | <p>...save ~\$30.00/bulb CFLs use at least 2/3 less energy than standard incandescent bulbs to provide the same amount of light, and last up to 10 times longer</p>                                                                                                                                       |

#### Clean Air Drive

AACOG purchased a new domain name – CleanAirDrive – to display information regarding clean air programs (Figure 2), such as ACAP. The domain name was chosen to reflect the intent of the site and to provide a URL (CleanAirDrive.com)<sup>7</sup> that is easy to find and remember. AACOG Natural Resources staff has heavily promoted the new web address. Internet users may still access ACAP information on the AACOG main website as well.

AACOG public outreach staff has also developed a new graphic for this ozone season called the Clean Air Gauge, posted on several websites for the San Antonio region including the Clean Air Drive website (Figure 2). The gauge measures how close the San Antonio EAC is from failing the federal ozone standard or the "red zone" on the graphic. The "red zone" starts at 82 parts per billion (ppb) ozone concentration as the 4<sup>th</sup> highest value to avoid.<sup>8</sup> The gauge is

<sup>7</sup> Visit Clean Air Drive at <http://www.cleanairdrive.com/>

<sup>8</sup> If the fourth- highest 8-hour ozone average for 2007 at the Camp Bullis (CAMS 58) site reaches 82 ppb, the San Antonio region's 2005-2007 design value will be 85 ppb, in violation of federal 8-hour average ozone NAAQS. As of June 25, the CAMS 58 4<sup>th</sup>-highest value for 2007 is 67 ppb, giving the region a design value of 80 ppb. Source: [http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr\\_attainment](http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_attainment)

updated if and as the 2007 fourth-highest seasonal 8-hour average value changes. Appendix D contains a larger Clean Air Gauge that features more detail.

Figure 2. View of Homepage for the [CleanAirDrive.com](http://CleanAirDrive.com) Website



#### 2.3.4 Texas Emission Reduction Plan (TERP)

When the State Implementation Plan created under the Early Action Compact was finalized in 2004, local elected officials requested a 2-ton per day (tpd) reduction of NO<sub>x</sub> emissions in the 4-county SAER through Texas Emissions Reduction Plan<sup>9</sup> (TERP) projects implemented locally. With the addition of projects up to and including the FY 2005 TERP 2<sup>nd</sup> round projects, the amount of NO<sub>x</sub> estimated reductions exceeded the targeted 2 tpd by 0.14 tpd in the San Antonio region.<sup>10</sup>

AACOG staff continues to vigorously promote TERP. On April 2, 2007, TCEQ opened the FY 2007 2<sup>nd</sup> round TERP applications to include the San Antonio area for the first time since the FY 2005 TERP 2<sup>nd</sup> round. The TERP application process closed June 1, 2007.

AACOG hosted two TERP workshops on April 16<sup>th</sup> and a TERP application-writing workshop on May 7<sup>th</sup> to help promote NO<sub>x</sub> reduction activities. The workshops were open to the general public. The Clean Cities Coordinator has been assisting stakeholders and members of the public with questions and issues on TERP.

One of the local applicants for TERP funding during this process was the City of San Antonio, which applied for CNG infrastructure assistance (see 2.3.1, under *Compressed Natural Gas Fleet Expansion*). Information regarding project selection will be available later this summer. It is anticipated that TCEQ will publish information about the spring 2007 TERP project selection list by mid-July 2007. Information will be provided in the next EAC Semi-Annual report.

<sup>9</sup> <http://www.tceq.state.tx.us/implementation/air/terp/>

<sup>10</sup> As documented in AACOG's Seventh Semi-Annual report for the San Antonio EAC region, June 30, 2006, page 13. Online: [http://www.aacog.com/CAP/eacsemiannualreports/063006\\_7th\\_SemiAnnual-AACOG.pdf](http://www.aacog.com/CAP/eacsemiannualreports/063006_7th_SemiAnnual-AACOG.pdf)

### 2.3.5 Transportation Emission Reduction Measures (TERMs)

TERMs projects include projects listed on the San Antonio/Bexar County Metropolitan Planning Organization's Transportation Improvement Program (TIP) and projects sponsored by local governments that are not federally funded. The projects, which qualify as TERMS projects, aim to reduce congestion and/or the number of trips made by vehicles, ultimately improving the air quality by reducing emissions. These projects have completion dates scheduled from 1999 through 2007.

However, the completion of **some** TERMS projects is not anticipated by Dec. 2007. Projects such as these have progressed slowly due to external influences (changes in construction plans, etc.). The EPA has accounted for these external influences by allowing substitute projects to replace the slower moving ones. Substitute projects are projects that were not on the original list approved for SIP credit and are scheduled for completion prior to Dec. 31, 2007. ***Substitutions for the projects not completed by December 2007 listed in Appendix B will be determined during a continuing evaluation process.***

Table 2. TERMS Project Completion Status; Estimates as of December 2006

| Project Completion Status               | Number of Projects | NOx (lbs/day)  | VOC (lbs/day)   |
|-----------------------------------------|--------------------|----------------|-----------------|
| Completed                               | 283                | 339.650        | 878.764         |
| Completion Anticipated during 2007      | 24                 | 7.205          | 19.568          |
| Completion Dates Unknown                | 10                 | 64.342*        | 177.037*        |
| <b>Completion Anticipated Post 2007</b> | <b>15</b>          | <b>9.539**</b> | <b>19.816**</b> |

\* Substitutions may need to be found for these projects with equivalent or greater reductions

\*\*Substitutes **must** be found for these projects with equivalent or greater reductions

## 2.4 Maintenance for Growth Milestones

Assurance of the air quality situation in Maintenance Year 2012 is a vital aspect of the ongoing planning activities by stakeholders in the EAC for the San Antonio region. Accomplishing this milestone is essential and would indicate that the efforts of the stakeholders in the SAER were successful.

### 2.4.1 Updating the Planning Process

Various stages of planning and verification must be performed on a continual basis to ensure timely emission reductions for the region to maintain air quality standards. The impacts of new point source related emissions, economic and population growth, and the implementation of new control strategies are evaluated during the air quality modeling process.

### 2.4.2 New Strategy Requirements

At this time, review of growth and monitor readings may support a call for additional measures enacted locally. The local governments, businesses and industry as well as other entities have implemented the many voluntary control strategies listed in the preceding pages. In addition, the AIR Committee is investigating other measures that could be implemented locally. Some of these measures include:

- Heavy duty diesel truck anti-idling ordinance
- Stage II vapor recovery systems, on-board vapor recovery (OBVR) systems, or the California LEV II standards (section 2.2.2 of this report)
- Voluntary measures taken by point source permit applicants to offset additional emissions

- Smoking vehicle rule – ticket smoking vehicles
- Hybrid or alternative city/county fleets
- Green building policies for new city-owned facilities (resolution approved on 02/07/07 by the Governance Committee of CoSA)

## 2.5 Public Involvement Milestones

Educating the public about the importance of the region's air quality continues to be a crucial effort for the Clean Air Plan. Outreach and education efforts continue within the SAER, often through partnerships with other governmental entities and industrial leaders in the area. As the Clean Air Plan is developed, citizens and citizen groups are given the opportunity to be involved in the Clean Air Plan development process.

### 2.5.1 Media

During the first half of 2007, AACOG partnered with a number of agencies and companies to conduct press conferences that focused on issues such as Air Quality in the San Antonio area, the Walk & Roll Challenge, and alternative commuting (e.g., carpooling, riding the bus, and walking).

#### Air Quality Health Alert (AQHA) Program

AACOG ensures the AQHA program is broadcast to as large an audience as possible by working with media partners to distribute AQHA announcements by television, radio, newspaper, and media websites. To help promote and educate, the Outreach Staff developed the Clean Air Gauge. This Gauge highlights the fourth highest ozone average, encouraging people to stay out of the RED ZONE—non-attainment. This graphic can be view in Figure 2 (*Clean Air Drive* webpage screen view) on page 8 of this report. In addition, Appendix D contains a larger version with more detail and accompanying explanation.

As of June 26, 2007, the following local organizations post the Clean Air Gauge on their website at the following Internet locations:

| Organization             | Web Link                                                                                                                                                                                      |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| San Antonio Water System | <a href="http://www.saws.org/environmental/cleanair/">http://www.saws.org/environmental/cleanair/</a>                                                                                         |
| SA-BC MPO                | <a href="http://www.sametroplan.org/pages/Air_Quality/MPOOzone.html">http://www.sametroplan.org/pages/Air_Quality/MPOOzone.html</a>                                                           |
| TransGuide               | <a href="http://www.transguide.dot.state.tx.us">http://www.transguide.dot.state.tx.us</a>                                                                                                     |
| City of San Antonio      | <a href="http://www.sanantonio.gov/enviro/EMD/AirQuality.asp">http://www.sanantonio.gov/enviro/EMD/AirQuality.asp</a>                                                                         |
| Palo Alto College        | <a href="http://www.accd.edu/pac/html/Community/publicaffairs/walkandroll/">http://www.accd.edu/pac/html/Community/publicaffairs/walkandroll/</a>                                             |
| VIA Metropolitan Transit | <a href="http://www.viainfo.net/Community/Green.aspx">http://www.viainfo.net/Community/Green.aspx</a>                                                                                         |
| Bexar County             | <a href="http://www.bexar.org/">http://www.bexar.org/</a>                                                                                                                                     |
| City of Boerne           | <a href="http://www.ci.boerne.tx.us/">http://www.ci.boerne.tx.us/</a>                                                                                                                         |
| Comal County Engineer    | <a href="http://www.cceo.org">http://www.cceo.org</a>                                                                                                                                         |
| Drive Clean Across Texas | <a href="http://www.drivecleanacrosstexas.org/other_ag_programs/partner_programs/san_antonio.stm">http://www.drivecleanacrosstexas.org/other_ag_programs/partner_programs/san_antonio.stm</a> |

AACOG posts the Clean Air Gauge on the following agency web locations:

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| AACOG           | <a href="http://www.aacog.com/">http://www.aacog.com/</a>                 |
| Clean Air Drive | <a href="http://www.cleanairdrive.com/">http://www.cleanairdrive.com/</a> |
| AACOG/AIR       | <a href="http://www.aacog.com/air/">http://www.aacog.com/air/</a>         |

In addition, AACOG staff continues to promote AQHA awareness through the sale of AQHA banners. This highly successful outreach campaign, one of many begun by former City Councilman Christopher "Chip" Haass, placed banners in schools throughout the San Antonio region, and continues with banner sales to businesses and schools within the EAC region.

### Air Quality Education Via Media

Local media aired public service announcements promoting Arbor Day 2007 as well as a news article printed in the San Antonio Express-News focusing on stricter policies from greenhouse gases.

### Other Media Efforts

Between January and June 2007 AACOG issued 3 press releases, conducted 1 press conference, assisted with 1 City Proclamation, and contributed 4 *Region* articles (AACOG electronic newsletter distributed to the 12-county region), regarding air quality issues. Air quality outreach materials were also distributed at media-sponsored health events.

### 2.5.2 Other Outreach Efforts

Non-media related outreach efforts continue. From January through June 2007, a number of governmental, private, school, and/or civic group presentations were provided as listed in Appendix A. Such events allow AACOG staff to inform citizens on how everyday actions contribute to air pollution and how alternate methods of doing the same tasks can help reduce emissions.

### Business of Air Seminar

AACOG staff worked with the Greater San Antonio Chamber of Commerce to develop the "Business of Air" seminar series. The first event in the series addressed such topics as: 1) Basic Principles of Air Quality; 2) the Business Perspective of Air Quality; and 3) the Future of Air Quality for San Antonio.

The Business of Air seminar, held on May 14, 2007, drew approximately 120 persons. The Greater San Antonio Chamber of Commerce hosted the seminar, with the assistance of multiple sponsors from the San Antonio business community. The speakers were Peter Bella, Director Natural Resources for AACOG, and George Beatty, Executive Director For the Texas Environmental Research Consortium and past President of the Greater Houston Partnership's Chamber of Commerce Division. Bexar County Judge Nelson Wolff, who is also Vice-Chair of the Air Improvement Resources Committee of AACOG, delivered the keynote speech. The seminar focused on the essentials of air quality as it relates to the business community; how ozone is formed, relevant air quality rules, San Antonio's current status and, in broad strokes, likely policy impacts should the region be declared non-attainment under federal 8-hour average ozone air quality standards.

Attendees to the seminar were provided a questionnaire to facilitate future outreach planning for the business community. The results of the questionnaire are attached as Appendix C, The Business of Air: Understanding Nonattainment; Evaluation Results. These very useful results are currently being used by AACOG and Greater Chamber staff to plan further seminar series and assess further need for other outreach measures in the community.

### Air Quality Materials and Information Distribution

To increase awareness of air quality topics among the general public, AACOG staff distributes thousands of brochures, booklets, flyers, and promotional items developed by AACOG or given to AACOG for distribution by other organizations or agencies. These distributions are listed in Appendix A under the header "Informational Materials and Distributions for All Outreach Efforts through AACOG." Additionally, AACOG maintains an air quality website, which has been updated with a new look, slogan and logo. The CleanAirDrive website is updated weekly and provides a wealth of information on air quality issues. Websites relating to air quality issues or

containing air quality information in the San Antonio EAC region are listed in Appendix A, under the header: *Websites for Public Viewing*.

#### Commute Solutions Program

The Commute Solutions program is designed to reduce the number of single occupancy vehicles (SOVs) by promoting alternative forms of transportation, such as RideSharing (carpooling, vanpooling, & SchoolPooling), Bike Buddies, and Walking School Bus (WSB).

In May 2007, the Commute Solutions staff contracted with Greenride for a web-based matching system to be used over the next 4-years. AACOG staff along with its regional partners in Austin, TX will launch the basic package on July 2, 2007. The system will serve matching needs for the San Antonio, New Braunfels, San Marcos, and Austin areas, providing a faster and more efficient rideshare system.

In addition to participants requesting individual match, organizations have the opportunity to request matching for its members. Below is the current list of organizations participating in the program's RideShare matching services. The names in ***italic bold*** indicate those that have made requests for matches within the January – June 2007 reporting period.

#### ***Carpooling:***

- CPS Energy
- ***Northwest Vista College***
- Southwest Research Institute
- Bexar County
- AACOG
- Standard Aero
- First Health
- ***Lackland AFB***
- San Antonio Water System (SAWS)
- ***City of San Antonio (COSA)***
- ***USAA***

#### ***SchoolPool & Walking School Bus*** (“WSB” indicates both programs active at location)

- Northeast School of Arts
- International School of the Americas
- ***San Antonio PREP & EDGE (summer only)***
- Candlewood Elementary (WSB)
- Evers Elementary (WSB)
- Encino Park Elementary

#### 2.5.3 Public Meetings/Clean Air Plan Workshops

In accordance with the EAC, the public has opportunities to participate with the ongoing development of the Clean Air plan in order to familiarize themselves with the process and goals of the project. The regularly scheduled bi-monthly meetings of the AIR Executive Committee, the planning committee for air quality planning under the Early Action Compact in the San Antonio region, are open to the public and always have a Citizens to Be Heard agenda item. Additional exposure to the project is expressly provided to the public through other meetings and workshops. This is achieved through the hosting of Clean Air Plan Workshops, which are called to discuss special topics with dates and times based on feedback from the public and scheduled typically on workweek evenings alternating with Saturday mornings.

### Chapter 3 – Conclusion

The San Antonio EAC region has successfully maintained steady progress in accomplishing EAC milestones and ensuring proper development of the Clean Air Plan. Completion of the milestones included appropriate participation of stakeholders in the air quality planning process, ongoing development and research of potential control strategies (to include voluntary strategies), provisions for public participation in the development of the Clean Air Plan, and continued development of technical activities and testing of model performance. Accomplishing these milestones allowed efficient development of the Attainment Demonstration and enhanced confidence in the validity of its technical data.

The San Antonio EAC region remains compliant with the prescribed milestones as given by the *Protocol for Early Action Compacts Designed to Achieve and Maintain the 8-Hour Ozone Standard*.<sup>11</sup> The region will continue to comply with the milestones as required.

---

<sup>11</sup> The "Protocol for Early Action Compacts Designed to Achieve and Maintain the 8-Hour Ozone Standard" is available online as [http://www.epa.gov/ttn/naaqs/ozone/eac/20020619\\_eac\\_protocol.pdf](http://www.epa.gov/ttn/naaqs/ozone/eac/20020619_eac_protocol.pdf)

## APPENDIX A – OUTREACH EFFORTS

## 2007 Air Quality Outreach & Education

### 1. Television

| Type of Outreach | Subject | Contact Persons w/Organizations | Date | Target Audience |
|------------------|---------|---------------------------------|------|-----------------|
|                  |         |                                 |      |                 |

### 2. Radio

| Type of Outreach | Subject        | Contact Persons w/Organizations                           | Date     | Target Audience |
|------------------|----------------|-----------------------------------------------------------|----------|-----------------|
| PSA              | Arbor Day 2007 | Mark Peterson, SAWS / AFP<br>Heather Willden, AACOG / AFP | 3/3/2007 | General Public  |

### 3. Newspaper & Internet

| Source    | Title of article                                             | Contact Persons w/Organizations                      | Date      | Target Audience               |
|-----------|--------------------------------------------------------------|------------------------------------------------------|-----------|-------------------------------|
| Newspaper | <a href="#">TXU's new plan elicits wariness</a>              | Anton Caputo, SA Express-News<br>Peter Bella, AACOG  | 3/12/2007 | General Public<br>[TRANSPORT] |
| Newspaper | <a href="#">Texas activists embrace 'very cool decision'</a> | Jerry Needham, SA Express-News<br>Peter Bella, AACOG | 4/2/2007  | General Public                |

### 4. Governmental, Civic, or Private Group

| Type of Outreach | Subject            | Contact Persons w/Organizations                  | Date      | Target Audience                      |
|------------------|--------------------|--------------------------------------------------|-----------|--------------------------------------|
| Presentation     | AACOG New Hire     | Heather Willden, AACOG<br>Cindy Krueger, AACOG   | 2/13/2007 | AACOG Staff                          |
| Presentation     | Commute Solutions  | Brenda Williams                                  | 2/26/2007 | MPO Transportation Policy Board      |
| Presentation     | Commute Solutions  | Amber Mayne, AACOG                               | 3/6/2007  | San Antonio Roadrunners              |
| Presentation     | Air Quality & Kids | Heather Willden, AACOG                           | 3/19/2007 | Southwest Housing Corporation - Kids |
| Presentation     | Commute Solutions  | Amber Mayne, AACOG                               | 4/17/2007 | Standard Aero                        |
| Event            | Earth Day @ Boeing | Brenda Williams, AACOG<br>Heather Willden, AACOG | 4/19/2007 | Boeing Employees                     |
| Event            | TXDOT Earth Day    | Heather Willden, AACOG                           | 5/4/2007  | TXDOT Employees                      |
| Presentation     | Air Quality & Kids | Heather Willden, AACOG                           | 5/10/2007 | Southwest Housing Corporation - Kids |
| Presentation     | Air Quality & Kids | Heather Willden, AACOG                           | 5/11/2007 | Southwest Housing Corporation - Kids |
| Presentation     | SAWS Brown Bag     | Heather Willden, AACOG                           | 5/15/2007 | Employees<br>[TRANSPORT]             |
| Presentation     | Commute Solutions  | Amber Mayne, AACOG<br>Gloria Arriaga, AACOG      | 6/5/2007  | Dominion Country Club                |
| Presentation     | Air Quality & Kids | Heather Willden, AACOG                           | 6/13/2007 | Southwest Housing Corporation - Kids |
| Presentation     | Air Quality & Kids | Heather Willden, AACOG                           | 6/20/2007 | Southwest Housing Corporation - Kids |

### 5. School - Related Education

| Type of Outreach             | Subject                          | Contact Persons w/Organizations                                        | Date        | Target Audience                                                   |
|------------------------------|----------------------------------|------------------------------------------------------------------------|-------------|-------------------------------------------------------------------|
| Mailing                      | Anti-Idling/Children's Health    | Heather Willden, AACOG<br>Denise Barkis-Richter, AHISD Parent          | 1/10/2007   | Cambridge Elementary<br>Woodridge Elementary<br>Palo Alto College |
| Event<br>(Donated Materials) | Career Fair                      | Debbie Hooge, TIAA                                                     | 1/31/2007   | Middle School Students                                            |
| Event                        | Asthma Action Plan Summit        | Heather Willden, AACOG / STAC<br>Debi Long, Christus Santa Rosa / STAC | 2/15/2007   | School District Health Directors/Advisors                         |
| Presentation                 | Safe Routes to School Workshop   | Heather Willden, AACOG<br>Lydia Kelly, MPO                             | 2/22/2007   | Parents, Students, Neighborhood residents                         |
| Presentation                 | Air Quality Health Alert Program | Heather Willden, AACOG                                                 | 3/6/2007    | Southwest ISD Nurses                                              |
| Presentation                 | Air Quality Health Alert Program | Heather Willden, AACOG                                                 | 3/19/2007   | SAISD Nurses                                                      |
| Presentation                 | Air Quality Health Alert Program | Heather Willden, AACOG                                                 | 3/20/2007   | Judson ISD Nurses                                                 |
| Presentation                 | Green Patrol - Kids              | Heather Willden, AACOG<br>Andrew Hudgins, AACOG                        | 3/21/2007   | Camelot Elementary Safety Patrol                                  |
| Event                        | Health Fair                      | Heather Willden, AACOG                                                 | 3/23/2007   | West Avenue Elementary                                            |
| Event                        | Water Fest                       | Amber Mayne, AACOG<br>Andrew Hudgins, AACOG                            | 3/24/2007   | Schulze Elementary                                                |
| Presentation                 | Air Quality Health Alert Program | Heather Willden, AACOG                                                 | 3/28/2007   | Archdiocese for Catholic Schools                                  |
| Presentation                 | Air Quality Health Alert Program | Heather Willden, AACOG<br>Andrew Hudgins, AACOG                        | 3/30/2007   | Southside ISD Nurses                                              |
| Presentation                 | Green Patrol - PTA               | Heather Willden, AACOG<br>Andrew Hudgins, AACOG                        | 4/3/2007    | Camelot Elementary PTA                                            |
| Event                        | Green Patrol Kick Off            | Heather Willden, AACOG<br>Andrew Hudgins, AACOG<br>Amber Mayne, AACOG  | 4/5/2007    | Camelot Elementary                                                |
| Presentation                 | Air Quality Health Alert Program | Heather Willden, AACOG<br>Andrew Hudgins, AACOG                        | 4/9/2007    | South San Antonio ISD Nurses                                      |
| Presentation                 | Air Quality Health Alert Program | Heather Willden, AACOG<br>Andrew Hudgins, AACOG                        | 4/9/2007    | Harlandale ISD Nurses                                             |
| Event                        | NISD Kids Day                    | Heather Willden, AACOG                                                 | 04/11-12/07 | NISD 5th Graders                                                  |
| Mailing                      | AQHA Banner                      | Heather Willden, AACOG<br>Isabel Gonzales, AACOG                       | 4/16/2007   | Estrada Achievement Center                                        |
| Mailing                      | Air Quality Information          | Heather Willden, AACOG<br>Isabel Gonzales, AACOG                       | 4/16/2007   | Our Lady of Perpetual Help                                        |
| Event                        | Health Fair                      | Heather Willden, AACOG                                                 | 4/20/2007   | Fox Run Elementary                                                |

|              |                                  |                                                                          |           |                                                           |
|--------------|----------------------------------|--------------------------------------------------------------------------|-----------|-----------------------------------------------------------|
| Presentation | Safe Routes to School Workshop   | Amber Mayne, AACOG                                                       | 4/25/2007 | Parents, Students, Neighborhood residents                 |
| Presentation | Air Quality Health Alert Program | Heather Willden, AACOG<br>Amber Mayne, AACOG                             | 4/25/2007 | Students/Teachers<br>Millers Point (4 presentations)      |
| Presentation | Lackland ISD Health Fair         | Heather Willde, AACOG<br>Brenda Williams, AACOG<br>Andrew Hudgins, AACOG | 4/26/2007 | Students/Teachers                                         |
| Presentation | Air Quality Health Alert Program | Heather Willden, AACOG                                                   | 5/1/2007  | Comal ISD Nurses                                          |
| Event        | Health Fair                      | Heather Willden, AACOG                                                   | 5/1/2007  | Parents, Students, Neighborhood residents                 |
| Mailing      | Green Patrol Welcome Packets     | Heather Willden, AACOG                                                   | 5/2/2007  | No Idle Pledge Participants<br>(Parents/Faculty/Staff)    |
| Event        | Health Fair                      | Heather Willden, AACOG                                                   | 5/4/2007  | Parents, Students, Neighborhood residents                 |
| Mailing      | NEISD Air Group                  | Brenda Williams, AACOG                                                   | 5/7/2007  | Patrons                                                   |
| Presentation | Air Action Team Party            | Andrew Hudgins, AACOG<br>Heather Willden, AACOG                          | 5/9/2007  | Students/Teachers<br>Camelot Elementary (4 presentations) |
| Presentation | Air Action Team                  | Andrew Hudgins, AACOG                                                    | 6/27/2007 | Teachers<br>SAWS Water Conf.                              |

## 6. Events & Public Meetings

| Type of Outreach | Subject                                          | Contact Persons w/Organizations                                                               | Date        | Target Audience                         |
|------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------|-----------------------------------------|
| Event            | WeatherFest<br>[TRANSPORT]                       | Brenda Williams, AACOG<br>Amber Mayne, AACOG                                                  | 1/14/2007   | General Public                          |
| Event            | Transportation Leadership Forum                  | Brenda Williams, AACOG<br>Heather Willden, AACOG                                              | 2/2/2007    | Transportation Planners                 |
| Event            | Earthwise Living Day                             | Georgia Zannaras, AACOG<br>Amber Mayne, AACOG                                                 | 2/24/2007   | Leon Valley Residents<br>General Public |
| Event            | Arbor Day                                        | Heather Willden, AACOG<br>Amber Mayne, AACOG                                                  | 3/3/2007    | General Public                          |
| Event            | Science Fest                                     | Heather Willden, AACOG<br>Brenda Williams, AACOG                                              | 3/24/2007   | Girls Inc.<br>Girls, age 6-18           |
| Event            | Green Building Summit                            | Amber Mayne, AACOG                                                                            | 3/28/2007   | Elected Officials<br>General Public     |
| Event            | Live Green Fest                                  | AACOG Natural Resources Staff                                                                 | 4/7/2007    | General Public                          |
| Event            | MPO TIP Open House                               | Brenda Williams, AACOG<br>Amber Mayne, AACOG                                                  | 4/10/2007   | General Public                          |
| Event            | Earth Day @ NWVC                                 | Amber Mayne, AACOG                                                                            | 4/12/2007   | NWVC Students/Faculty/Staff             |
| Workshop         | Air & Waste Management Assoc.<br>[TRANSPORT]     | Peter Bella, AACOG<br>Brenda Williams, AACOG<br>Amber Mayne, AACOG                            | 4/13/2007   | A&WMA Membership                        |
| Mailing          | Bike Maps                                        | Heather Willden, AACOG<br>Isabel Gonzales, AACOG                                              | 4/16/2007   | General Public                          |
| Event            | Earth Day                                        | All Outreach Staff                                                                            | 4/21/2007   | General Public                          |
| Event            | YMCA Kids Day                                    | Andrew Hudgins, AACOG                                                                         | 4/23/2007   | General Public                          |
| Workshop         | Safe Routes to School Workshop                   | Peter Bella, AACOG<br>Brenda Williams, AACOG<br>Amber Mayne, AACOG                            | 4/13/2007   | A&WMA Membership                        |
| Event            | Walk & Roll to Work Rally                        | Amber Mayne, AACOG                                                                            | 5/4/2007    | General Public                          |
| Meeting          | Walk & Roll Project Officer Rally<br>[TRANSPORT] | AACOG Natural Resources Staff                                                                 | 5/11/2007   | Agency Reps                             |
| Event            | Walk & Roll Fest                                 | Amber Mayne, AACOG<br>Brenda Williams, AACOG                                                  | 5/12/2007   | General Public                          |
| Event            | Go Green                                         | Andrew Hudgins, AACOG                                                                         | 05/18-19/07 | General Public                          |
| Event            | Solar Fest                                       | Brenda Williams, AACOG<br>Peter Bella, AACOG<br>Heather Willden, AACOG<br>Parviz Nazem, AACOG | 5/19/2007   | General Public                          |
| Event            | Missions Baseball Asthma Night                   | STAC Representatives<br>Heather Willden, AACOG<br>Amber Mayne, AACOG                          | 5/19/2007   | General Public                          |
| Event            | Movie in th Park                                 | Amber Mayne, AACOG<br>Brenda Williams, AACOG                                                  | 6/9/2007    | General Public                          |

## 7. Press Items and Proclamations

| Type of Outreach | Subject                        | Contact Persons w/Organizations                                            | Date     | Target Audience                |
|------------------|--------------------------------|----------------------------------------------------------------------------|----------|--------------------------------|
| Newsletter       | Take Out Air Pollution in 2007 | Brenda Williams, AACOG<br>Heather Willden, AACOG<br>Tiffany Pickens, AACOG | 2/1/2007 | AACOG Region                   |
| Proclamation     | Arbor Day                      | Heather Willden, AACOG<br>Brenda Williams, AACOG                           | 3/1/2007 | City Council<br>General Public |
| News Brief       | Arbor Day                      | Heather Willden, AACOG                                                     | 3/2/2007 | General Public                 |
| Newsletter       | Celebrate Arbor Day            | Brenda Williams, AACOG<br>Heather Willden, AACOG<br>Tiffany Pickens, AACOG | 3/1/2007 | AACOG Region                   |
| Newsletter       | Fresh Air Friday               | Brenda Williams, AACOG<br>Amber Mayne, AACOG<br>Tiffany Pickens, AACOG     | 3/1/2007 | AACOG Region                   |

|                      |                                                                                                                     |                                                                                                                        |           |                |
|----------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
| News Release         | Fresh Air Friday                                                                                                    | Amber Mayne, AACOG<br>Brenda Williams, AACOG<br>Tiffany Pickens, AACOG                                                 | 3/26/2007 | General Public |
| Newsletter           | Ozone Season 2007                                                                                                   | Heather Willden, AACOG<br>Peter Bella, AACOG<br>Brenda Williams, AACOG<br>Tiffany Pickens, AACOG                       | 4/1/2007  | AACOG Region   |
| News Release         | Walk & Roll / Clean Air Gauge                                                                                       | Heather Willden, AACOG<br>Amber Mayne, AACOG<br>Peter Bella, AACOG<br>Brenda Williams, AACOG<br>Tiffany Pickens, AACOG | 4/20/2007 | General Public |
| Request For Coverage | Press Conference for Walk & Roll Events and Air Quality Challenges                                                  | Brenda Williams, AACOG<br>Amber Mayne, AACOG<br>Heather Willden, AACOG                                                 | 4/23/2007 | General Public |
| Press Conference     | Walk & Roll / Clean Air Gauge [TRANSPORT]                                                                           | Amber Mayne, AACOG<br>Peter Bella, AACOG<br>Brenda Williams, AACOG                                                     | 4/23/2007 | General Public |
| News Release         | CONTROLLING ASTHMA, SAVING LIVES THROUGH EDUCATION<br>San Antonio observes <i>World Asthma Day</i> through baseball | Debi Long, STAC<br>Heather Willden, AACOG                                                                              | 5/16/2007 | General Public |
| PSA                  | CELEBRATE ASTHMA AWARENESS WITH THE MISSIONS                                                                        | Debi Long, STAC<br>Heather Willden, AACOG                                                                              | 5/16/2007 | General Public |
| PSA                  | TRAVEL SMART IN JUNE FOR THE WALK AND ROLL CORPORATE CHALLENGE                                                      | Brenda Williams, AACOG<br>Heather Willden, AACOG                                                                       | 5/31/2007 | General Public |
| News Release         | SMART COMMUTING TO REDUCE AIR POLLUTION<br>San Antonio Mayor Challenges businesses to Walk & Roll this June         | Brenda Williams, AACOG<br>Heather Willden, AACOG                                                                       | 5/31/2007 | General Public |
| News Release         | STEPPING UP TO IMPROVE AIR QUALITY FOR REGION<br>Capitol Cement receives award for clean air efforts                | Brenda Williams, AACOG<br>Peter Bella, AACOG<br>Heather Willden, AACOG                                                 | 6/13/2007 | General Public |
| Newsletter           | Walk & Roll Corporate Challenge                                                                                     | Brenda Williams, AACOG<br>Amber Mayne, AACOG<br>Heather, Willden AACOG<br>Tiffany Pickens, AACOG                       | 6/1/2007  | AACOG Region   |

## 8. Website for Public Viewing

| Agency/Company | Site Name                     | How It Relates                                                                                                                                  | URL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AACOG          | CleanAirDrive.com             | Natural Resources Programs                                                                                                                      | <a href="http://www.cleanairdrive.com">http://www.cleanairdrive.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AACOG          | Air Quality                   | AQ Info (AQ Fact Sheet. Pdf) [TRANSPORT]                                                                                                        | <a href="http://www.aacog.com/air/">http://www.aacog.com/air/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AACOG          | Commute Solutions             | Reducing SOVs                                                                                                                                   | <a href="http://www.aacog.com/commutesolutions/">http://www.aacog.com/commutesolutions/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AACOG          | Adopt-a-School Bus            | Reduce pollution from school buses                                                                                                              | <a href="http://www.aacog.com/schoolbus/">http://www.aacog.com/schoolbus/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AACOG          | TERP                          | Grants for use of pollution reduction technologies                                                                                              | <a href="http://www.aacog.com/terp/">http://www.aacog.com/terp/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AACOG          | ACAP                          | Buisness community commitment to AQ                                                                                                             | <a href="http://www.aacog.com/acap/">http://www.aacog.com/acap/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AACOG          | Walk & Roll Challenge         | Month-long challenge promoting walking, biking, carpooling/vanpooling, and busing [TRANSPORT]                                                   | <a href="http://www.walkandrollchallenge.com/">http://www.walkandrollchallenge.com/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AACOG          | Clean Cities                  | Promotes alternative fuels                                                                                                                      | <a href="http://www.aacog.com/cleancities">http://www.aacog.com/cleancities</a>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AACOG          | Kids Zone                     | Links and fun activites about AQ for kids                                                                                                       | <a href="http://www.aacog.com/aboutaacog/kidszone/">http://www.aacog.com/aboutaacog/kidszone/</a>                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AACOG          | Clean Air Plan                | Posting of the Clean Air Plan for SA region                                                                                                     | <a href="http://www.aacog.com/cap/">http://www.aacog.com/cap/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AACOG          | Cleaner Texas Cleaner World   |                                                                                                                                                 | <a href="http://www.aacog.com/air/cleantexas/cleantexas.asp">http://www.aacog.com/air/cleantexas/cleantexas.asp</a>                                                                                                                                                                                                                                                                                                                                                                                                         |
| AACOG          | Conceptual Model              | Posting of report                                                                                                                               | <a href="http://www.aacog.com/naturalresources/cm/042705_ConcModel2004.pdf">http://www.aacog.com/naturalresources/cm/042705_ConcModel2004.pdf</a>                                                                                                                                                                                                                                                                                                                                                                           |
| AACOG          | Emission Inventories          | Posting of San Antonio region air EI for 1996<br>Posting of San Antonio region air EI for 1999<br>Posting of San Antonio region air EI for 2002 | <a href="http://www.aacog.com/naturalresources/1996%20Emissions%20Inventory/1996EI_TOC.html">http://www.aacog.com/naturalresources/1996%20Emissions%20Inventory/1996EI_TOC.html</a><br><a href="http://www.aacog.com/naturalresources/1999%20Emissions%20Inventory/AACOG1999EI_OnlineIndex.html">http://www.aacog.com/naturalresources/1999%20Emissions%20Inventory/AACOG1999EI_OnlineIndex.html</a><br><a href="http://www.aacog.com/naturalresources/2002_NET_EI/">http://www.aacog.com/naturalresources/2002_NET_EI/</a> |
| AACOG          | Emissions Trend Analysis 2005 | Posting of report                                                                                                                               | <a href="http://www.aacog.com/naturalresources/pdffiles/082405_TrendAnalysis_Sep05.pdf">http://www.aacog.com/naturalresources/pdffiles/082405_TrendAnalysis_Sep05.pdf</a>                                                                                                                                                                                                                                                                                                                                                   |
| AACOG          | Clean Air Pan                 | Posting of plan for San Antonio Region                                                                                                          | <a href="http://www.aacog.com/cap/">http://www.aacog.com/cap/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AACOG          | AACOG regional newsletter     | Newsletter informing the region of events, happenings, etc.                                                                                     | <a href="http://www.aacog.com/newsletter/">http://www.aacog.com/newsletter/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                   |                        |                                                                                       |                                                                                                                                                                                             |
|-------------------|------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AFP               | AQ & Trees             | Information on trees in regards to AQ                                                 | <a href="http://www.alamoforestpartnership.org/">http://www.alamoforestpartnership.org/</a>                                                                                                 |
| MPO               | Ozone/AQ               | General information on ozone and AQ                                                   | <a href="http://www.sametroplan.org/pages/Air_Quality/MPOzone.html">http://www.sametroplan.org/pages/Air_Quality/MPOzone.html</a>                                                           |
| MPE               | Homepage               | Energy Efficiency                                                                     | <a href="http://www.mp4e.info/">http://www.mp4e.info/</a>                                                                                                                                   |
| Build SA Green    | Homepage               | Building energy efficient homes in San Antonio                                        | <a href="http://www.buildsagreen.org/">http://www.buildsagreen.org/</a>                                                                                                                     |
| Solar San Antonio | Homepage               | Solar Energy                                                                          | <a href="http://www.solarsanantonio.org/">http://www.solarsanantonio.org/</a>                                                                                                               |
| COSA              | Environmental Services |                                                                                       | <a href="http://www.sanantonio.gov/enviro/">http://www.sanantonio.gov/enviro/</a>                                                                                                           |
| CPS               | Rebates and Programs   | Programs to conserve energy, preserve the environment and save money on utility bills | <a href="http://www.citypublicservice.com/content_listInternet.asp?emt_id=13">http://www.citypublicservice.com/content_listInternet.asp?emt_id=13</a>                                       |
| WOAI              | Air Quality            | General information on AQ, ozone, & AQHA days                                         | <a href="http://www.woai.com/weather/story.aspx?content_id=B9E06E29-059F-4DAD-ACFA-9DF72655970F">http://www.woai.com/weather/story.aspx?content_id=B9E06E29-059F-4DAD-ACFA-9DF72655970F</a> |

## 9. Informational Materials and Distributions for All Outreach Efforts through AACOG

| Type of Outreach   | Subject / Title                         | Description                                                                                                   | Quantity | Target Audience                                        |
|--------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------|
| Promotional Item   | 10 things you can do to clean the air   | bookmark to promote clean air practices                                                                       | 246      | General Public                                         |
| Promotional Item   | Adopt-a-School Bus Bookmark             | Encourage cleaner school buses                                                                                | 575      | Elementary-age children                                |
| Promotional Item   | Air Care Kit                            | DCAT promotional item, reward for participating in program                                                    | 59       | Driving-age public                                     |
| Poster             | Air Pollution Gremlins                  | TCEQ poster - 6 Gremlin characters with the six primary air pollutants (e.g. Odious Ozone), English & Spanish | 113      | Teachers, Elementary-age to Middle School age children |
| School Item        | Air Quality & Transportation Curriculum | Compilation of lessons/activities adapted for region.<br>[TRANSPORT]                                          | 1        | Teachers/School Admin./Parents                         |
| Flyer              | Air Quality & Your Health               | Flyer detailing current air quality situation in region<br>[TRANSPORT]                                        | 14       | General Public                                         |
| Promotional Item   | Air Quality Fortune                     | Pull fortune out for Air Quality Tip                                                                          | 120      | General Public                                         |
| Flag               | Air Quality Health Alert Banner         | Banner for organizations to purchase and then hang during AQHA days                                           | 1        | Business/Organizations                                 |
| Survey             | Air Quality Survey                      | Gauging responsiveness of Air Quality Messages/Actions in General Public                                      | 1        | General Public                                         |
| Promotional Item   | Anti-Idling Mist fan                    | Incentive/reward/promote no-idle parents                                                                      | 55       | Parents                                                |
| Flyer              | AQHA Instructions                       | Instructions to join notification program                                                                     | 253      | Adult 18+                                              |
| Promotional Item   | AQHA Magnet                             | AQHA contact information                                                                                      | 100      | General Public                                         |
| Flyer              | AQI                                     | Informational handout (Eng/Span) on Air Quality Index                                                         | 508      | General Public                                         |
| Flyer              | Arbor Day                               | Promoted Event                                                                                                | 35       | General Public                                         |
| Promotional Item   | Bike Buddies Bottles                    | Promote Bike Buddies program/Incentive                                                                        | 33       | General Public                                         |
| Promotional Item   | Bike Maps                               | Displays safety of routes for bicyclists                                                                      | 155      | General Public                                         |
| Informational Item | Bike Tips                               | tips page for safe bicycling habits                                                                           | 4        | General Public                                         |
| Childrens Item     | Buckle-up                               | Coloring book                                                                                                 | 6        | Elementary-age Children                                |
| Card               | Business Cards                          | Point-of-Contact material                                                                                     | 136      | General Public                                         |
| Informational Item | Car Care 101                            | Encourages drives to maintain their vehicle                                                                   | 13       | General Driving-age public                             |
| Brochures/Form     | CARE                                    | Promote and recruit CARE program participants                                                                 | 128      | Carpoolers (those who have matched in program)         |
| Form               | Carpool/Bike Buddies Sign-Up            | Participation form to join program                                                                            | 323      | General Driving-age public                             |
| Promotional Item   | Clean Air Drive Bags                    | Promote Clean Air                                                                                             | 506      | General Public                                         |
| Promotional Item   | Clean Air Drive Fans                    | Promote Clean Air                                                                                             | 862      | General Public                                         |
| Promotional Item   | Clean Air Drive Pens                    | Pen with 6 pollution reduction tips                                                                           | 1164     | General Public                                         |
| Promotional Item   | Clean Air Driver Magnet                 | Incentive item to encourage program participation (e.g. reward for no idle pledge takers)                     | 5        | Driving-age general public                             |
| Informational Item | Clean Air Gauge                         | Handout describing Gauge and its purpose                                                                      | 12       | General Public                                         |
| Promotional Item   | Clean Air Magnet                        | Magnets promoting clean air practices                                                                         | 14       | General Public                                         |

|                    |                                                |                                                                                      |      |                                                     |
|--------------------|------------------------------------------------|--------------------------------------------------------------------------------------|------|-----------------------------------------------------|
| Promotional Item   | Clean Cities Static Sticker - Reuse            | sticker promoting recycled/reuse/reduce                                              | 50   | General Public                                      |
| Informational Item | Clean Cities Vehicle List                      | handout detailing list of AFVs                                                       | 2    | General Public                                      |
| Promotional Item   | Clean School Bus USA<br>Bus Driver Key Chains  | Key chain incentive/reward for pledging not to idle (FOR BUS DRIVERS)                | 75   | School Bus Drivers                                  |
| Promotional Item   | Clean School Bus USA Pencils                   | Pencils                                                                              | 30   | General Public                                      |
| Promotional Item   | Clean Texas                                    | bookmark to promote clean air practices                                              | 327  | General Public                                      |
| Promotional Item   | Commute Solutions Blinking Light               | Incentive item to encourage program participation (e.g. reward for walkers)          | 59   | General Public                                      |
| Promotional Item   | Commute Solutions Lanyards                     | Incentive item to encourage program participation (e.g. reward for carpoolers)       | 378  | Driving-age general public                          |
| Promotional Item   | Commute Solutions Lunch Sacks                  | Incentive item to encourage program participation (e.g. reward for carpoolers)       | 5    | Driving-age general public                          |
| Promotional Item   | Commute Solutions Squeeze Car                  | Incentive item to encourage program participation (e.g. reward for carpoolers)       | 174  | Driving-age general public                          |
| Promotional Item   | Commute Solutions Travel Mug                   | Incentive item to encourage program participation (e.g. reward for carpoolers)       | 7    | Driving-age general public                          |
| Promotional Item   | Corn Pens                                      | pens made of corn plastic, promote alternative fuels                                 | 250  | General Public                                      |
| Childrens Item     | CPS ENERGY Notepads                            | Notepads                                                                             | 220  | Children                                            |
| Brochure           | DCAT Asthma/Health                             | Information highlighting connection between asthma and air quality                   | 479  | School Parents/Nurses                               |
| Poster             | DCAT Asthma/Health                             | Information highlighting connection between asthma and air quality                   | 2    | School Parents/Nurses                               |
| Promotional Item   | DCAT Calendars                                 | Air Quality-focused calendars providing monthly lessons                              | 93   | General Public                                      |
| Poster             | DCAT Clean Air Crew                            | Poster promoting clean air habits for children                                       | 2    | Elementary-age Children & Teachers                  |
| Video              | DCAT Clean Air Crew                            | DCAT cartoon, 6 minute video featuring Tex & Dot & the Clean Air Crew                | 4    | Elementary-age Children & Teachers                  |
| Childrens Item     | DCAT Coloring Book                             | DCAT coloring book - promoting air quality to students, English                      | 2034 | Teachers, Elementary-age children                   |
| Promotional Item   | DCAT Notepads                                  | Provides quick tips to improve air quality                                           | 322  | General Public                                      |
| Childrens Item     | DCAT Stickers                                  | Encourages RideSharing                                                               | 85   | Children, families, teachers, parents, grandparents |
| Childrens Item     | DCAT Stickers                                  | Encourages the maintenance of vehicles and protecting one's own health               | 114  | Children, families, teachers, parents, grandparents |
| Childrens Item     | DLAT Tattoos                                   | Temporary tatoos with "Drive Clean Across Texas" on them                             | 200  | Children                                            |
| Flyer              | Earth Day                                      | Promoted Event                                                                       | 149  | General Public                                      |
| Flyer              | Effects of Common Air Pollutants               | Flyer version of poster detailing effects of air pollution                           | 299  | General Public                                      |
| Flyer              | Fresh Air Friday                               | Promoted Event                                                                       | 39   | General Public                                      |
| Informational Item | Green Guide to Yard Care                       | book educating greener yard care practices                                           | 17   | General Public                                      |
| Letter             | Green Patrol Parent Letter                     | Letter detailing and promoting Green Patrol and No Idling habits                     | 600  | Parents                                             |
| Promotional Item   | Green Patrol Static Sticker (Clean Air Driver) | Sticker for parents to display on windsheild --show support of program               | 161  | General Public                                      |
| Promotional Item   | Green Patrol Stickers                          | Stickers promoting Green Patrol program                                              | 476  | General Public                                      |
| Informational Item | Green Patrol Welcome Note                      | Note welcoming into program and providing tips for idle reduction                    | 161  | General Public                                      |
| Multi-media        | Idle Reduction                                 | CD/VHS promotion idle reduction to school bus drivers                                | 2    | Schools/School Transportation                       |
| Poster             | Idle Reduction                                 | Poster promoting idle-reduction to schools                                           | 2    | Schools/School Transportation                       |
| Promotional Item   | Key Ring: Tire Pressure Gauge                  | Reminds public to maintain proper tire pressure                                      | 440  | General Driving Age Public                          |
| Press Item         | Media Toolkit: Ozone 101                       | Toolkit to describe ozone pollution and AACOG services/programs to media [TRANSPORT] | 77   | Media / General Public                              |
| Promotional Item   | No Idle Pledge Pens                            | Reminds public to avoid idling                                                       | 445  | General Public                                      |
| Form               | No Idle Pledges - Parent                       | Pledges not to idling vehicles                                                       | 150  | parents                                             |
| Flyer              | Program Pages                                  | Flyer detailing outreach programs                                                    | 173  | General Public                                      |
| Informational Item | Power Smart                                    | booklet detailing power-saving tips                                                  | 32   | General Public                                      |
| Promotional Item   | Recycle Wrist Bands                            | promoting recycling                                                                  | 285  | General Public                                      |
| Flyer/Form         | School Commute Solutions                       | Participation form to join program                                                   | 7    | K-12 parents/Teachers/Principals                    |
| School Item        | School Toolkit: Ozone 101                      | Toolkit to describe ozone pollution and AACOG services/programs                      | 321  | Teachers/School Admin./Students/Parents             |
| Promotional Item   | Spray Bottles                                  | spray bottles providing organic plant recipes                                        | 105  | General Public                                      |
| Flyer              | Upcoming Events                                | Promoted Events                                                                      | 336  | General Public                                      |
| Brochure           | Walk & Roll                                    | Promoted Events                                                                      | 155  | General Public                                      |
| Flyer              | Walk & Roll Corporate Challenge                | Promoted Event                                                                       | 6    | General Public                                      |
| Flyer              | We'd Love To Visit...                          | Promotes AACOG program presentations                                                 | 253  | General Public, organization members                |
| Flyer              | What can cities do                             |                                                                                      | 16   | General Public                                      |

## APPENDIX B – TERMS

## I. TERMS projects already completed

## Appendix B: TERMS

|    | Project Type | Agency    | Project Name             | From                             | To                    | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|----|--------------|-----------|--------------------------|----------------------------------|-----------------------|----------|-----------------|---------------|---------------|
| 1  | Sidewalk     | TxDOT     | Acme Road                | Old Highway 90                   |                       | 1999     | 2001            | 0.069         | 0.058         |
| 2  | Sidewalk     | TxDOT     | Gevers St                | IH 10                            | Southcross            | 2000     | 2001            | 0.242         | 0.204         |
| 3  | Sidewalk     | TxDOT     | Henderson Pass           | Thousand Oaks                    | Gold Canyon           | 2000     | 2001            | 0.202         | 0.170         |
| 4  | Sidewalk     | TxDOT     | IH 410                   | Bertetti                         | Marbach               | 2000     | 2000            | 0.050         | 0.042         |
| 5  | Bike/Ped     | TxDOT     | Mission Trails (Phase 3) | E. Southcross                    | Mitchell St.          | 2000     | 2001            | 0.712         | 0.600         |
| 6  | Bike/Ped     | TxDOT     | Mitchell St.             | Probandt to                      | Roosevelt             | 2000     | 2003            | 0.104         | 0.088         |
| 7  | Bike/Ped     | TxDOT     | Nogalitos (LP 353)       | Zarzamora / New Laredo Hwy       | Surrey                | 2000     | 2003            | 0.235         | 0.198         |
| 8  | Bike/Ped     | TxDOT     | Probandt St.             | US 90                            | Mitchell              | 2000     | 2003            | 0.014         | 0.012         |
| 9  | Bike/Ped     | TxDOT     | Prue Rd                  | Laureate                         | Fredericksburg        | 2000     | 2002            | 0.065         | 0.054         |
| 10 | Bike/Ped     | TxDOT     | Rittiman                 | Austin Hwy (LP 368)              | Harry Wurzbach        | 2000     | 2002            | 0.124         | 0.105         |
| 11 | Bike/Ped     | TxDOT     | Timber Path Bikeway      | Les Harrison                     | Grissom Rd.           | 2000     | 2001            | 0.166         | 0.140         |
| 12 | Bike/Ped     | TxDOT     | Bitters Rd               | Broadway                         | Nacogdoches Rd.       | 2001     | 2003            | 0.282         | 0.237         |
| 13 | Bike/Ped     | TxDOT     | Callaghan                | Hemphill                         | Culebra               | 2001     | 2003            | 0.266         | 0.225         |
| 14 | Bike/Ped     | TxDOT     | Coliseum Rd.             | East Houston St.                 | Gembler Rd.           | 2001     | 2004            | 0.123         | 0.104         |
| 15 | Bike/Ped     | TxDOT     | East Houston St.         | Walters                          | Onslow                | 2001     | 2003            | 0.054         | 0.045         |
| 16 | Bike/Ped     | TxDOT     | East Houston St.         | Onslow St.                       | Salado Creek          | 2001     | 2002            | 0.084         | 0.071         |
| 17 | Bike/Ped     | TxDOT     | Pearsall Rd (FM 2536)    | Loop 13 (Military Drive)         | IH 410                | 2001     | 2003            | 2.630         | 2.216         |
| 18 | Bike/Ped     | TxDOT     | Pecan Valley Dr          | J St. to                         | IH 10                 | 2001     | 2003            | 0.049         | 0.041         |
| 19 | Bike/Ped     | TxDOT     | Pleasanton               | Moursund                         | Gillette              | 2001     | 2003            | 0.027         | 0.023         |
| 20 | Bike/Ped     | TxDOT     | Southcross               | WW White (LP 13)                 | Loop 410              | 2001     | 2003            | 0.209         | 0.176         |
| 21 | Bike/Ped     | TxDOT     | Uhr Lane                 | Higgins                          | Thousand Oaks         | 2001     | 2004            | 0.210         | 0.177         |
| 22 | Bike/Ped     | TxDOT     | New World                | Crestway                         | Montgomery            | 2004     | 2004            | 0.050         | 0.042         |
| 23 | Sidewalk     | TxDOT     | New World                | Montgomery Dr                    | Walzem Rd ( FM 1976)  | 2004     | 2004            | 0.050         | 0.042         |
| 24 | Sidewalk     | Federal   | Alamo                    | Cedar                            | San Antonio River     | 2003     | 2003            | 0.031         | 0.026         |
| 25 | Sidewalk     | TxDOT     | W.W. White Rd. (Loop 13) | Seale Road                       | IH-10                 | 2004     | 2005            | 0.336         | 0.283         |
| 26 | Sidewalk     | TxDOT     | Grissom/Culebra (FM 471) | SH 16                            | Loop 1604             | 2003     | 2004            | 2.040         | 1.719         |
| 27 | Sidewalk     | TxDOT     | Southcross Blvd.         | S. New Braunfels to S. Presa St. | S. Presa St.          | 2005     | 2004            | 0.107         | 0.090         |
| 28 | Sidewalk     | TxDOT     | Hunt Lane                | Marbach to US 90                 | US 90                 | 2004     | 2004            | 0.273         | 0.230         |
| 29 | Sidewalk     | Federal   | Isom                     | Ramsey                           | US 281                | 2004     | 2004            | 0.084         | 0.071         |
| 30 | Sidewalk     | COSA      | Roland (US 87)           | IH 10                            | Rigsby Avenue         | 2004     | 2005            | 0.100         | 0.084         |
| 31 | Sidewalk     | COSA      | SH 218 (Pat Booker Road) | Loop 1604                        | FM 78                 | 2004     | 2005            | 0.998         | 0.841         |
| 32 | Sidewalk     | COSA      | Sunset                   | Jones Maltsberger                | Teak                  | 2004     | 2005            | 0.135         | 0.114         |
| 33 | Sidewalk     | Bexar Co. | Kitty Hawk Rd            | Miller Rd.                       | Converse City Limits  | 2004     | 2005            | 0.070         | 0.059         |
| 34 | Bikeway      | COSA      | UTSA to OLLU Corridor    | Houston St.                      | 24th St.              | 2004     | 2005            | 0.507         | 0.427         |
| 35 | Bikeway      | Bexar Co. | Crestway                 | Miller Road                      | New World             | 2004     | 2005            | 0.070         | 0.059         |
| 36 | Sidewalk     | Bexar Co. | New World                | Crestway                         | Miller Road           | 2004     | 2005            | 0.026         | 0.022         |
| 37 | Bike racks   | COSA      |                          | Various Locations                |                       | 2004     | 2005            | 0.000         | 0.000         |
| 38 | Sidewalk     | Bexar Co. | Crestway Drive           | New World                        | Windcrest City Limits | 2004     | 2005            | 0.060         | 0.051         |
| 39 | Sidewalk     | COSA      | E. Houston               | Pine                             | Walters               | 2004     | 2006            | 0.060         | 0.050         |
| 40 | Bike Lane    | COSA      | Ingram                   | Callaghan                        | Benrus                | 2004     | 2007            | 0.215         | 0.181         |
| 41 | Bike Lane    | Univ City | SH 218                   | Loop 1604                        | FM 78                 | 2004     | 2004            | 0.928         | 0.782         |
| 42 | Sidewalk     | COSA      | Flores, S                | 0.6 Mi N of Malone               | Octavia               | 2005     | 2006            | 0.191         | 0.161         |

## I. TERMS projects already completed

## Appendix B: TERMS

43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84

| Project Type | Agency    | Project Name                    | From                                | To                        | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|--------------|-----------|---------------------------------|-------------------------------------|---------------------------|----------|-----------------|---------------|---------------|
| Bike Lane    | COSA      | SAC to CBD                      | Howard                              | 4th                       | 2001     | 2001            | 0.082         | 0.069         |
| Bike Lane    | COSA      | Montana/Nevada                  | Cherry                              | Meerscheidt               | 2001     | 2001            | 0.040         | 0.034         |
| Bike Lane    | COSA      | N.Zarzamora                     | Nogalitos                           | Theo                      | 2001     | 2001            | 0.158         | 0.133         |
| Bike Lane    | COSA      | N. St. Mary's                   | Lexinton                            | Huisache                  | 2001     | 2001            | 0.199         | 0.168         |
| Bike Lane    | COSA      | Callaghan                       | Old Highway 90                      | New HWY 90                | 2001     | 2001            | 0.128         | 0.108         |
| Bike Lane    | COSA      | S. Zarzamora                    | SW Loop 410                         | IH 35                     | 2001     | 2001            | 0.338         | 0.285         |
| Bike Lane    | COSA      | Caliza                          | Encino Rio                          | Evans Rd.                 | 2001     | 2001            | 0.061         | 0.052         |
| Bike Lane    | COSA      | UTSA to SAC                     | Buena Vista                         | San Pedro                 | 1999     | 1999            | 0.299         | 0.252         |
| Bike Lane    | COSA      | Les Harrison                    | Culebra                             | Dover Ridge               | 2000     | 2000            | 0.313         | 0.264         |
| Bike Lane    | COSA      | Josephine Grayson               | Broadway                            | New Braunfels             | 2000     | 2000            | 0.085         | 0.072         |
| Bike Lane    | COSA      | Walters                         | Fair Ave.                           | Rigsby Avenue             | 2000     | 2000            | 0.235         | 0.198         |
| Bike Lane    | COSA      | Villaret                        | Zarzamora                           | Hwy 16                    | 2000     | 2000            | 0.074         | 0.062         |
| Sidewalk     | COSA      | Rice Reconstruction             | W. W. White                         | Semlinger                 | 2004     | 2005            | 0.033         | 0.028         |
| Sidewalk     | Comal Co. | New Braunfels                   | LP 337                              | 0.8 KM N of Walnut Ave.   | 2004     | 2005            | 0.197         | 0.166         |
| Side walk    | COSA      | Gen McMullen                    | Roselawn                            | Commerce                  | 1999     | 1999            | 0.664         | 0.560         |
| Bike Path    | COSA      | Avenue B (Bicycle Lanes)        | Mulberry                            | Brackenridge              | 2000     | 2000            | 0.095         | 0.080         |
| Bike Path    | COSA      | Montana Street Bike Lane        | Alamodome                           | Walters                   | 2001     | 2001            | 0.018         | 0.016         |
| Bike Path    | COSA      | Villaret Bicycle Transportation | W. Villaret                         | E. Villaret               | 2001     | 2001            | 0.107         | 0.090         |
| Bike Path    | COSA      | Zarzamora Bike Lane             | IH 35                               | Loop 410                  | 2001     | 2001            | 0.000         | 0.000         |
| Sidewalk     | COSA      | Mckay                           | (400 Block)                         | (500 Block)               | 2001     | 2001            | 0.008         | 0.006         |
| Sidewalk     | COSA      | Harvard Terrace                 | Yale                                | University                | 2001     | 2001            | 0.001         | 0.001         |
| Side walk    | COSA      | Dell Place Drainage Project     | North Freeman                       | (dead end)                | 2001     | 2001            | 0.000         | 0.000         |
| Sidewalk     | COSA      | Hardeman St Sidewalks           | Mesquite                            | Hackberry                 | 2001     | 2001            | 0.002         | 0.002         |
| Sidewalk     | COSA      | Gevers-IH 10                    | Gevers                              | Southcross                | 2001     | 2002            | 0.131         | 0.110         |
| Sidewalk     | COSA      | New Braunfels                   | Rigsby                              | Southcross/IH 37          | 2001     | 2001            | 0.278         | 0.234         |
| Sidewalk     | COSA      | Henderson Pass Sidewalks        | Thousand Oaks                       | Gold Canyon.              | 2001     | 2001            | 0.818         | 0.689         |
| Sidewalk     | COSA      | Danbury Sidewalks:              | Nacogdoches                         | Broadway                  | 2002     | 2002            | 0.021         | 0.018         |
| Sidewalk     | COSA      | Ray Bon Drive Sidewalks         | Eisenhauer                          | Village Haven             | 2002     | 2002            | 0.031         | 0.026         |
| Sidewalk     | COSA      | New Braunfels                   | IH 35                               | Grayson                   | 2002     | 2002            | 0.068         | 0.057         |
| Sidewalk     | COSA      | Pedestrian Bridge               | War Horse                           | Trading Post              | 2002     | 2002            | 0.001         | 0.000         |
| Sidewalk     | COSA      | Hoover Street                   | Nogalitos                           | Charlotte                 | 2003     | 2003            | 0.003         | 0.002         |
| Sidewalk     | COSA      | 2003 NAMP Sidewalk              | Mccullough                          | Mulberry                  | 2004     | 2004            | 0.595         | 0.502         |
| Sidewalk     | COSA      | Navajo Area Streets             | (Navajo/Hutchins/Barlite)           | (Navajo/Hutchins/Barlite) | 2004     | 2004            | 0.159         | 0.134         |
| Sidewalk     | COSA      | McCarty Sidewalks & Curbs       | Lorene                              | Blanco                    | 2004     | 2004            | 0.031         | 0.026         |
| Sidewalk     | COSA      | Harris Storm Drainage           | Alvarez                             | (Glass/Cass/Halstead)     | 2004     | 2005            | 0.038         | 0.032         |
| Sidewalk     | COSA      | Kono                            | Gembler                             | Belgium                   | 2005     | 2006            | 0.026         | 0.022         |
| Sidewalk     | COSA      | Octavia                         | #63 Phase II                        | Part B                    | 2005     | 2005            | 0.103         | 0.087         |
| Sidewalk     | COSA      | La Manda                        | West Avenue                         | Buckeye                   | 2006     | 2006            | 0.006         | 0.005         |
| Sidewalk     | COSA      | Rosabell Street                 | Culebra                             | Inez                      | 2006     | 2006            | 0.006         | 0.005         |
| Sidewalk     | COSA      | Cincinnati                      | Fredericksburg                      | IH 10                     | 2007     | 2005            | 0.019         | 0.016         |
| Signal       | TxDOT     | US 281                          | At Borgfeld, Bulverde, Wilderness O | and Stone Oak Roads       | 2003     | 2004            | 3.797         | 2.327         |
| Signal       | Bexar Co. | Foster Road                     | Candlemeadow                        | 4C                        | 2005     | 2005            | 0.253         | 0.155         |

## I. TERMS projects already completed

## Appendix B: TERMS

|     | Project Type  | Agency          | Project Name            | From                              | To                             | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|-----|---------------|-----------------|-------------------------|-----------------------------------|--------------------------------|----------|-----------------|---------------|---------------|
| 85  | Signal        | Bexar Co.       | Foster Road             | Summer Fest                       | 4C                             | 2005     | 2005            | 0.059         | 0.036         |
| 86  | Signal        | Comal Co.       | SH46                    | HEB driveway                      |                                | 2001     | 2002            | 0.052         | 0.041         |
| 87  | Signal        | Comal Co.       | FM 725                  | County Line Rd                    |                                | 2001     | 2002            | 1.003         | 0.788         |
| 88  | Signal        | Comal Co.       | FM 3009                 | FM 2252 in Garden Ridge           |                                | 2001     | 2002            | 0.575         | 0.452         |
| 89  | Signal        | New Braun.      |                         | Union                             | Common                         | 2004     | 2004            | 0.075         | 0.059         |
| 90  | Signal        | Guadalupe Co.   | FM 3009                 | Savana/Verde Dr.                  |                                | 2001     | 2004            | 2.097         | 1.488         |
| 91  | Signal        | Guadalupe Co.   | SH46                    | US 90                             |                                | 2004     | 2007            | 1.165         | 0.827         |
| 92  | Signal        | Guadalupe Co.   | FM 3009                 | IH 35E                            | 0.21 Mi SE of IH 35            | 2004     | 2004            | 1.010         | 0.717         |
| 93  | Intersection  | TxDOT           | Hunt Lane               | Marbach                           | US 90                          | 2004     | 2004            | 2.790         | 1.674         |
| 94  | Intersection  | TxDOT           | Bitters                 | East of West Ave (W.of US 281)    |                                | 2005     | 2005            | 5.529         | 3.317         |
| 95  | Intersection  | TxDOT           | Wurzbach                | Ironside                          | IH 10                          | 2004     | 2006            | 6.251         | 3.751         |
| 96  | Intersection  | TxDOT           | IH 10                   | IH 10 West at Huebner Road        |                                | 2004     | 2006            | 4.664         | 2.798         |
| 97  | Intersection  | TxDOT           | Loop 1604               | SH 16                             | FM 1937                        | 2004     | 2006            | 0.173         | 0.104         |
| 98  | Intersection  | TxDOT           | Loop 1604               | IH 35                             | SH 16                          | 2004     | 2006            | 3.731         | 2.239         |
| 99  | Intersections | COSA            | James Park Development  | Rittiman and Holbrook.            |                                | 2005     | 2006            | 2.292         | 1.375         |
| 100 | Intersections | COSA            | West Ave                | Larkspur                          | Silver Sands, Rhapsody and N   | 2000     | 2000            | 15.325        | 9.195         |
| 101 | Intersections | COSA            | Tezel                   | Tezel                             | Timber Path                    | 2000     | 2000            | 3.168         | 1.901         |
| 102 | Intersections | COSA            | Broadway                | Broadway                          | Wetmore Rd                     | 2001     | 2001            | 2.044         | 1.227         |
| 103 | Intersections | COSA            | Southwest Craft Cntr    | Navaro                            | Augusta                        | 2004     | 2004            | 0.842         | 0.505         |
| 104 | Park & Ride   | VIA             | Crossroads              | IH-10W & Loop 410                 |                                | 1988     | 1988            | 2.039         | 1.718         |
| 105 | Park & Ride   | VIA             | Ellis Alley             | Chestnut & Center Street          |                                | 1998     | 1998            | 4.166         | 3.511         |
| 106 | Park & Ride   | VIA             | University              | IH 10 W & Loop 1604               |                                | 1993     | 1993            | 15.150        | 12.767        |
| 107 | Park & Ride   | TxDOT           | Elmendorf               | US 181 S. & Loop 1604             |                                | 1981     | 1981            | 2.573         | 2.168         |
| 108 | Park & Ride   | privately owned | St. Hedwig              | FM 1346 & Pittman Rd.             |                                | 1988     | 1988            | 0.529         | 0.446         |
| 109 | Park & Ride   | VIA             | Randolph Blvd           | IH 35 N & Crestway                |                                | 1980     | 1980            | 3.038         | 2.560         |
| 110 | Transit CT.   | VIA             | Ingram                  | Ingram Road & Northwestern        |                                | 1988     | 1988            | 0.547         | 0.461         |
| 111 | Transit CT.   | VIA             | Kel-Lac                 | US 90 W. & Military Dr.           |                                | 2004     | 2004            | 1.558         | 1.313         |
| 112 | Grade Sep     | TxDOT           | Loop 1604               | 0.52 KM N of FM 471 (Culebra Rd.) | 0.98 KM S of FM 471 (Culebra   | 2001     | 2003            | 17.896        | 10.738        |
| 113 | Grade Sep     | TxDOT           | IH 410                  | SH 16                             | UPRR                           | 2004     | 2006            | 3.722         | 2.233         |
| 114 | Traffic Flow  | TxDOT           | Acme Road               | Old Highway 90                    |                                | 1999     | 2001            | 0.622         | 0.207         |
| 115 | Traffic Flow  | TxDOT           | Evers Rd.               | N. of Glen Ridge                  | Daughtry Dr.                   | 1999     | 2000            | 1.335         | 0.445         |
| 116 | Traffic Flow  | TxDOT           | FM 2522 (Perrin Beitel) | IH 410                            |                                | 1999     | 2000            | 0.526         | 0.175         |
| 117 | Traffic Flow  | TxDOT           | FM 78                   | Bexar Co. Ln.                     | FM 3009                        | 1999     | 2002            | 2.653         | 0.884         |
| 118 | Traffic Flow  | TxDOT           | Houston (FM 1346)       | Pop Gunn                          |                                | 1999     | 2000            | 2.002         | 0.667         |
| 119 | Traffic Flow  | TxDOT           | IH 10                   | 0.2 mile South of Callaghan Road  | 0.2 mile South of N. Crossroad | 1999     | 2005            | 27.854        | 9.285         |
| 120 | Traffic Flow  | TxDOT           | SH 151                  | Callaghan Rd                      |                                | 1999     | 2004            | 0.335         | 0.112         |
| 121 | Traffic Flow  | TxDOT           | Tezel                   | Timber Path                       |                                | 1999     | 2000            | 0.609         | 0.203         |
| 122 | Traffic Flow  | TxDOT           | US 281                  | 0.590 KM N of LP 1604             | 0.746 KM N of LP 1604          | 1999     | 2000            | 6.398         | 2.133         |
| 123 | Traffic Flow  | TxDOT           | West Avenue             | FM 1535 (NW Military Hwy)         | IH 410                         | 1999     | 2002            | 2.646         | 0.882         |
| 124 | Traffic Flow  | TxDOT           | Wurzbach Parkway        | Lockhill-Selma                    | FM 1535 (NW Military Hwy)      | 1999     | 2002            | 0.460         | 0.153         |
| 125 | Traffic Flow  | TxDOT           | 24th                    | Commerce                          | Culebra                        | 2000     | 2001            | 2.353         | 0.784         |
| 126 | Traffic Flow  | TxDOT           | Ackerman Rd.            | IH 10                             | Dietrich                       | 2000     | 2002            | 0.190         | 0.063         |

## I. TERMS projects already completed

## Appendix B: TERMS

|     | Project Type | Agency        | Project Name                | From                               | To                             | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|-----|--------------|---------------|-----------------------------|------------------------------------|--------------------------------|----------|-----------------|---------------|---------------|
| 127 | Traffic Flow | TxDOT         | Hildebrand                  | IH-10                              | Breeden                        | 2000     | 2003            | 2.767         | 0.922         |
| 128 | Traffic Flow | TxDOT         | Hildebrand                  | Hwy. 281                           |                                | 2000     | 2001            | 0.454         | 0.151         |
| 129 | Traffic Flow | TxDOT         | Huebner Road                | Evers Road                         | Redbird Lane (E of city limit) | 2000     | 2001            | 1.288         | 0.429         |
| 130 | Traffic Flow | TxDOT         | Lockhill Selma              | George Road                        | Whisper Path                   | 2000     | 2003            | 0.846         | 0.282         |
| 131 | Traffic Flow | TxDOT         | O'Connor Rd                 | Crosswinds                         | IH 35                          | 2000     | 2003            | 3.418         | 1.139         |
| 132 | Traffic Flow | TxDOT         | Wetmore                     | At Broadway                        |                                | 2000     | 2001            | 0.203         | 0.068         |
| 133 | Traffic Flow | TxDOT         | Wurzbach Rd                 | 0.6 Mi East of Ingram Rd           | Leon Valley WCL                | 2000     | 2001            | 1.945         | 0.648         |
| 134 | Traffic Flow | TxDOT         | Coliseum Rd.                | Belgium Rd.                        | IH 35                          | 2001     | 2002            | 0.712         | 0.237         |
| 135 | Traffic Flow | TxDOT         | IH 410                      | Jackson-Keller Road                | Honeysuckle Lane               | 2001     | 2005            | 42.811        | 14.270        |
| 136 | Traffic Flow | TxDOT         | IH 410                      | Honeysuckle Lane                   | Blanco Rd                      | 2001     | 2005            | 25.183        | 8.394         |
| 137 | Traffic Flow | TxDOT         | Loop 345                    | Cinnamon Creek                     | USAA Blvd                      | 2001     | 2002            | 0.136         | 0.045         |
| 138 | Traffic Flow | TxDOT         | Wurzbach Road               | Crystall Hill                      | Crystall Hill                  | 2001     | 2003            | 1.361         | 0.454         |
| 139 | Traffic Flow | TxDOT         | IH 35                       | Coliseum & Walters                 |                                | 2002     | 2004            | 0.053         | 0.018         |
| 140 | Traffic Flow | TxDOT         | IH 410                      | SH 151                             |                                | 2002     | 2006            | 0.009         | 0.003         |
| 141 | Traffic Flow | TxDOT         | Pleasanton                  | Southcross                         | Mayfield                       | 2002     | 2004            | 0.981         | 0.327         |
| 142 | Traffic Flow | TxDOT         | Ralph Fair Rd. (FM 3351)    | Fawn Mountain, Pimlico, Dietz-Elkh | Fair Oaks Parkway              | 2002     | 2003            | 4.243         | 1.414         |
| 143 | Traffic Flow | TxDOT         | SH 151                      | 0.22 Mi W of Callaghan Rd.         | 0.3 Mi E of IH 410             | 2004     | 2005            | 17.904        | 5.968         |
| 144 | Traffic Flow | TxDOT         | SH 151                      | 0.3 Mi E of IH 410                 | 1.0 Mi E of Loop 1604          | 2004     | 2004            | 19.142        | 6.381         |
| 145 | Traffic Flow | TxDOT         | Ironside                    | Wurzbach                           |                                | 2004     | 2005            | 0.326         | 0.109         |
| 146 | Traffic Flow | TxDOT         | Zarzamora                   | IH 410                             | Applewhite Road                | 2004     | 2005            | 1.999         | 0.666         |
| 147 | Traffic Flow | TxDOT         | Applewhite Road             | Zarzamora                          | Watson Road                    | 2004     | 2005            | 1.999         | 0.666         |
| 148 | Traffic Flow | TxDOT         | Loop 1605                   | FM 1937                            | IH 37                          | 2004     | 2005            | 1.243         | 0.414         |
| 149 | Traffic Flow | TxDOT         | Military Dr., S.E. (LP 13)  | Padre                              | Mission Rd 4C                  | 2005     | 2006            | 0.486         | 0.162         |
| 150 | Traffic Flow | Comal Co.     | LP 337                      | 0.16 KM N of BI 35-H               | 0.48 KM N of UPRR              | 2001     | 2002            | 3.446         | 1.378         |
| 151 | Traffic Flow | Guadalupe Co. | SH 46                       | 2.2 Mi S of FM 758 New Braunfels   | Camp Willow Rd. (0.2 Mi S of F | 2002     | 2002            | 5.878         | 2.177         |
| 152 | Traffic Flow | Guadalupe Co. | FM 78                       | Bexar Co. Ln.                      | FM 3009                        | 2002     | 2002            | 4.299         | 1.592         |
| 153 | Traffic Flow | Wilson Co.    | FM 1346                     | US 87 W of Lavernia                | FM 775                         | 2001     | 2002            | 1.400         | 0.560         |
| 154 | Traffic Flow | Guadalupe Co. | SH 46                       | 0.2 Mi S of FM 758                 | Comal Co line                  | 2004     | 2004            | 4.219         | 1.562         |
| 155 | Traffic Flow | COSA          | Wurzbach Parkway Phase IV   | Military Highway                   | Blanco Road                    | 2002     | 2002            | 17.353        | 5.784         |
| 156 | Traffic Flow | COSA          | Wurzbach Rd:                | Ingram Rd                          | Leon Valley                    | 2002     | 2002            | 4.649         | 1.550         |
| 157 | Traffic Flow | COSA          | Hamilton                    | Guadalupe                          | Laredo                         | 1999     | 1999            | 0.582         | 0.194         |
| 158 | Traffic Flow | COSA          | Wurzbach Rd @ Vance Jackson |                                    |                                | 1999     | 1999            | 2.227         | 0.742         |
| 159 | Traffic Flow | COSA          | Mitchell Street             | Probandt                           | Presa                          | 1999     | 1999            | 0.336         | 0.112         |
| 160 | Traffic Flow | COSA          | Valley Hi Drive             | IH 410                             | Ray Ellison                    | 1999     | 1999            | 0.412         | 0.137         |
| 161 | Traffic Flow | COSA          | Chipinque Drainage          | General McMullen                   | Escuela                        | 1999     | 1999            | 1.297         | 0.432         |
| 162 | Traffic Flow | COSA          | Zarzamora                   | Culebra                            | Commerce                       | 1999     | 1999            | 2.705         | 0.902         |
| 163 | Traffic Flow | COSA          | Calaveras                   | Saunders                           | Guadalupe                      | 1999     | 1999            | 0.568         | 0.189         |
| 164 | Traffic Flow | COSA          | Courtland Street            | Mccullough                         | St. Mary's                     | 1999     | 1999            | 0.424         | 0.141         |
| 165 | Traffic Flow | COSA          | Guadalupe Gardens Phase II  |                                    |                                | 1999     | 1999            | 1.241         | 0.414         |
| 166 | Traffic Flow | COSA          | Chico/Knox/Margil           |                                    |                                | 1999     | 1999            | 0.024         | 0.008         |
| 167 | Traffic Flow | COSA          | Folyn/Jersey/Custer/Orange  |                                    |                                | 1999     | 1999            | 0.280         | 0.093         |
| 168 | Traffic Flow | COSA          | Travis                      | Zarzamora                          | Hamilton                       | 1999     | 1999            | 0.566         | 0.189         |

## I. TERMS projects already completed

## Appendix B: TERMS

|     | Project Type | Agency | Project Name                                    | From                 | To                | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|-----|--------------|--------|-------------------------------------------------|----------------------|-------------------|----------|-----------------|---------------|---------------|
| 169 | Traffic Flow | COSA   | Villa Coronado Streets, Phase III A             |                      |                   | 1999     | 1999            | 0.097         | 0.032         |
| 170 | Traffic Flow | COSA   | Mayfield                                        | Somerset             | Laredo Hwy        | 1999     | 1999            | 0.122         | 0.041         |
| 171 | Traffic Flow | COSA   | Hazel Drainage                                  | Zarzamora            | Brazos            | 1999     | 1999            | 0.751         | 0.250         |
| 172 | Traffic Flow | COSA   | Lillita                                         | Gen. McMullen        | Las Palmas        | 1999     | 1999            | 0.108         | 0.036         |
| 173 | Traffic Flow | COSA   | Advance & Brice                                 |                      |                   | 1999     | 1999            | 0.045         | 0.015         |
| 174 | Traffic Flow | COSA   | calle morelia drainage                          |                      |                   | 1999     | 1999            | 0.095         | 0.032         |
| 175 | Traffic Flow | COSA   | Emory / Kentucky                                |                      |                   | 1999     | 1999            | 0.120         | 0.040         |
| 176 | Traffic Flow | COSA   | 26th Street                                     | Travis               | Culebra           | 1999     | 1999            | 0.147         | 0.049         |
| 177 | Traffic Flow | COSA   | Wurzbach Parkway Phase II                       |                      |                   | 1999     | 1999            | 11.623        | 3.874         |
| 178 | Traffic Flow | COSA   | Keitha Area Streets Phase II                    |                      |                   | 1999     | 1999            | 0.645         | 0.215         |
| 179 | Traffic Flow | COSA   | Muskogee                                        | Acme                 | 40th              | 1999     | 1999            | 0.080         | 0.027         |
| 180 | Traffic Flow | COSA   | Boehmer                                         | Burbank Loop         | S. Flores         | 1999     | 1999            | 0.014         | 0.005         |
| 181 | Traffic Flow | COSA   | Dewitt                                          | IH 10                | Fairmont          | 1999     | 1999            | 0.028         | 0.009         |
| 182 | Traffic Flow | COSA   | Claremont/Eleanor/Natalen, Ph I & Mahncke Ph IV |                      |                   | 1999     | 1999            | 0.234         | 0.078         |
| 183 | Traffic Flow | COSA   | Lake Blvd/Woodlawn/Streets                      | Around Woodlawn Lake |                   | 1999     | 1999            | 2.077         | 0.692         |
| 184 | Traffic Flow | COSA   | S. Flores Drn #70-70a, Ph. II--Part 2           |                      |                   | 2000     | 2000            | 0.000         | 0.000         |
| 185 | Traffic Flow | COSA   | 34th Street                                     | Hwy 90               | Castroville       | 2000     | 2000            | 0.064         | 0.021         |
| 186 | Traffic Flow | COSA   | 27th                                            | Culebra              | Rivas             | 2000     | 2000            | 0.052         | 0.017         |
| 187 | Traffic Flow | COSA   | 21st Street                                     | Salinas              | Poplar            | 2000     | 2000            | 0.268         | 0.089         |
| 188 | Traffic Flow | COSA   | Eastlawn Neighborhood Streets Phase II          |                      |                   | 2000     | 2000            | 0.435         | 0.145         |
| 189 | Traffic Flow | COSA   | Southlawn                                       | Merida               | Castroville       | 2000     | 2000            | 0.089         | 0.030         |
| 190 | Traffic Flow | COSA   | Madrid                                          | Merida               | Castroville Rd    | 2000     | 2000            | 0.025         | 0.008         |
| 191 | Traffic Flow | COSA   | Grandview Neighborhood Streets Ph. IIIA         |                      | (K Street)        | 2000     | 2000            | 0.047         | 0.016         |
| 192 | Traffic Flow | COSA   | Wurzbach Parkway Phase III                      |                      |                   | 2000     | 2000            | 0.391         | 0.130         |
| 193 | Traffic Flow | COSA   | Glenmore                                        |                      | Kentucky          | 2000     | 2000            | 0.047         | 0.016         |
| 194 | Traffic Flow | COSA   | Villa Coronado Streets Phase IIIB               |                      |                   | 2000     | 2000            | 0.043         | 0.014         |
| 195 | Traffic Flow | COSA   | Arbor                                           | Trinity              | San Marcos        | 2000     | 2000            | 0.083         | 0.028         |
| 196 | Traffic Flow | COSA   | Fairdale                                        | Rittiman             | Bloomdale         | 2000     | 2000            | 0.323         | 0.108         |
| 197 | Traffic Flow | COSA   | Stahl Rd. #1038 Phase I                         | Fairway Oaks         | Bulverde          | 2000     | 2000            | 0.273         | 0.091         |
| 198 | Traffic Flow | COSA   | Babcock & Hillcrest Intersection                |                      |                   | 2000     | 2000            | 1.364         | 0.455         |
| 199 | Traffic Flow | COSA   | Apple Valley                                    | Haven Valley         | Ray Ellison       | 2000     | 2000            | 0.141         | 0.047         |
| 200 | Traffic Flow | COSA   | Las Palmas                                      | Charben              | 26th              | 2000     | 2000            | 0.129         | 0.043         |
| 201 | Traffic Flow | COSA   | Contour Dr / El Monte St                        |                      |                   | 2000     | 2000            | 1.697         | 0.566         |
| 202 | Traffic Flow | COSA   | Evers Rd                                        | Glenridge            | Daughtry          | 2000     | 2000            | 1.424         | 0.475         |
| 203 | Traffic Flow | COSA   | Baylor St                                       | San Pedro Ck.        | Flores St.        | 2000     | 2000            | 0.010         | 0.003         |
| 204 | Traffic Flow | COSA   | Culebra Area Streets Phase II                   |                      |                   | 2000     | 2000            | 0.901         | 0.300         |
| 205 | Traffic Flow | COSA   | Hildebrand @ 281                                |                      |                   | 2000     | 2000            | 1.040         | 0.347         |
| 206 | Traffic Flow | COSA   | Lone Oak/Latimer:                               | F St                 | Brice             | 2001     | 2001            | 0.020         | 0.007         |
| 207 | Traffic Flow | COSA   | Rip Rap 69-Phiic Part 3                         |                      |                   | 2001     | 2001            | 0.105         | 0.035         |
| 208 | Traffic Flow | COSA   | Ackerman                                        | IH 10                | Dietrich          | 2001     | 2001            | 0.216         | 0.072         |
| 209 | Traffic Flow | COSA   | Carson Street                                   | Walters              | Frank             | 2001     | 2001            | 0.077         | 0.026         |
| 210 | Traffic Flow | COSA   | Starcrest                                       | Stuntman             | Jones Maltsberger | 2001     | 2001            | 0.081         | 0.027         |

## I. TERMS projects already completed

## Appendix B: TERMS

|     | Project Type | Agency | Project Name                          | From             | To                         | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|-----|--------------|--------|---------------------------------------|------------------|----------------------------|----------|-----------------|---------------|---------------|
| 211 | Traffic Flow | COSA   | Bobolink 96A                          | Storeywood       | Deneice                    | 2001     | 2001            | 1.828         | 0.609         |
| 212 | Traffic Flow | COSA   | Mahncke Area Streets, Phase II        |                  |                            | 2001     | 2001            | 0.752         | 0.251         |
| 213 | Traffic Flow | COSA   | Creswell                              | Houston          | Deadend                    | 2001     | 2001            | 0.024         | 0.008         |
| 214 | Traffic Flow | COSA   | Thorain                               | Buckeye          | S.P. Railroad              | 2001     | 2001            | 0.039         | 0.013         |
| 215 | Traffic Flow | COSA   | Fred. Rd                              | Sandoval         | Woodlawn                   | 2001     | 2001            | 1.472         | 0.491         |
| 216 | Traffic Flow | COSA   | Hobart Street                         | Acme Rd          | 40th St                    | 2001     | 2001            | 0.023         | 0.008         |
| 217 | Traffic Flow | COSA   | Lawton / Sw 41st Street               |                  |                            | 2001     | 2001            | 0.019         | 0.006         |
| 218 | Traffic Flow | COSA   | Orr                                   | Suzette          | Winkle                     | 2001     | 2001            | 0.019         | 0.006         |
| 219 | Traffic Flow | COSA   | Fleming                               | Mayfield         | Peabody                    | 2001     | 2001            | 0.016         | 0.005         |
| 220 | Traffic Flow | COSA   | Evers Rd @ Wurzbach Rd Intersection   |                  |                            | 2001     | 2001            | 0.102         | 0.034         |
| 221 | Traffic Flow | COSA   | Capitol                               | Basse            | San Angelo                 | 2001     | 2001            | 0.010         | 0.003         |
| 222 | Traffic Flow | COSA   | Grandview Neighborhood Sts Ph IIIB    | Pecan Valley     | Amanda                     | 2001     | 2001            | 0.020         | 0.007         |
| 223 | Traffic Flow | COSA   | Pace                                  | Elmendorf        | Brazos                     | 2001     | 2001            | 0.139         | 0.046         |
| 224 | Traffic Flow | COSA   | Texas / Waverly Streets               |                  |                            | 2001     | 2001            | 0.527         | 0.176         |
| 225 | Traffic Flow | COSA   | Basse Road & San Pedro Intersection   |                  |                            | 2001     | 2001            | 1.625         | 0.542         |
| 226 | Traffic Flow | COSA   | Monterrey                             | 36th             | San Joaquin                | 2001     | 2001            | 0.467         | 0.156         |
| 227 | Traffic Flow | COSA   | Blueridge                             | Gen McMullen     | 27th                       | 2001     | 2001            | 0.143         | 0.048         |
| 228 | Traffic Flow | COSA   | Rip Rap 69 - Ph IIC Part 3A           |                  |                            | 2001     | 2001            | 0.166         | 0.055         |
| 229 | Traffic Flow | COSA   | Callaghan:                            | Old Hwy 90       | Commerce                   | 2001     | 2001            | 1.021         | 0.340         |
| 230 | Traffic Flow | COSA   | Duval/Seguin:                         | Pierce           | Walters                    | 2001     | 2001            | 0.223         | 0.074         |
| 231 | Traffic Flow | COSA   | 24th St:                              | Commerce         | Culebra                    | 2001     | 2001            | 0.236         | 0.079         |
| 232 | Traffic Flow | COSA   | Claremont/Eleanor/Natalen, Ph II      |                  |                            | 2001     | 2001            | 0.175         | 0.058         |
| 233 | Traffic Flow | COSA   | Strech                                | Chavaneaux       | Malley Blvd                | 2001     | 2001            | 0.128         | 0.043         |
| 234 | Traffic Flow | COSA   | Indianola                             | Garfield         | Camargo                    | 2001     | 2001            | 0.008         | 0.003         |
| 235 | Traffic Flow | COSA   | Elsmere                               | Michigan         | Capitol                    | 2002     | 2002            | 0.021         | 0.007         |
| 236 | Traffic Flow | COSA   | Arbor                                 | Trinity          | San Marcos Ph II           | 2002     | 2002            | 0.029         | 0.010         |
| 237 | Traffic Flow | COSA   | Escalon St. #1008                     |                  |                            | 2002     | 2002            | 0.051         | 0.017         |
| 238 | Traffic Flow | COSA   | S. Flores Drn #70-70A, Ph. II--Part 3 |                  |                            | 2002     | 2002            | 11.316        | 3.772         |
| 239 | Traffic Flow | COSA   | Octavia #63 Phase 1                   |                  |                            | 2002     | 2002            | 0.678         | 0.226         |
| 240 | Traffic Flow | COSA   | Leonhardt Road @ Low Water Crossing   |                  |                            | 2002     | 2002            | 0.299         | 0.100         |
| 241 | Traffic Flow | COSA   | St. Marys Street -                    | Pereida          | Roosevelt                  | 2002     | 2002            | 0.841         | 0.280         |
| 242 | Traffic Flow | COSA   | Lockhill-Selma:                       | George           | Whisper Path               | 2003     | 2003            | 0.731         | 0.244         |
| 243 | Traffic Flow | COSA   | 39th Street #58m, Phase II A          |                  |                            | 2003     | 2003            | 0.871         | 0.290         |
| 244 | Traffic Flow | COSA   | Quintana Road Drainage #64 Extension  |                  |                            | 2003     | 2003            | 0.648         | 0.216         |
| 245 | Traffic Flow | COSA   | S. Flores:                            | Durango          | Franciscan                 | 2003     | 2003            | 1.269         | 0.423         |
| 246 | Traffic Flow | COSA   | Monticello:                           | S. Gevers        | Hillje                     | 2003     | 2003            | 0.095         | 0.032         |
| 247 | Traffic Flow | COSA   | Higgins Road:                         | Nacogdoches      | Stahl                      | 2003     | 2003            | 1.551         | 0.517         |
| 248 | Traffic Flow | COSA   | Hi Lions 80 Mod PIII & V              |                  |                            | 2004     | 2004            | 11.176        | 3.725         |
| 249 | Traffic Flow | COSA   | Bee Street:                           | Walters          | Frank                      | 2004     | 2004            | 0.030         | 0.010         |
| 250 | Traffic Flow | COSA   | Aransas:                              | Meerscheidt      | Walters                    | 2004     | 2004            | 0.077         | 0.026         |
| 251 | Traffic Flow | COSA   | Flores/Breeden/Beacon, Phase II       |                  |                            | 2004     | 2004            | 0.417         | 0.139         |
| 252 | Traffic Flow | COSA   | Mockert Street Area                   | Mockert, Forest, | ( W. Lambert, Kline, Cass) | 2004     | 2004            | 0.435         | 0.145         |

**I. TERMS projects already completed**

Appendix B: TERMS

|     | Project Type | Agency    | Project Name                     | From                               | To                            | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|-----|--------------|-----------|----------------------------------|------------------------------------|-------------------------------|----------|-----------------|---------------|---------------|
| 253 | Traffic Flow | COSA      | Pleasanton Road                  | Gillette                           | Loop 410                      | 2004     | 2005            | 0.000         | 0.000         |
| 254 | Traffic Flow | COSA      | Northington                      | S.W. 36th                          | S.W. 35th                     | 2004     | 2004            | 0.075         | 0.025         |
| 255 | Traffic Flow | COSA      | Fay Street / St Joseph:          | Creighton                          | New Laredo Hwy, Part 1        | 2005     | 2005            | 0.264         | 0.088         |
| 256 | Traffic Flow | COSA      | Fay Street / St. Joseph:         | Creighton                          | New Laredo Hwy, Part 2        | 2005     | 2005            | 0.000         | 0.000         |
| 257 | Traffic Flow | COSA      | Belgium:                         | Picarde                            | Sbc Parkway                   | 2005     | 2005            | 0.137         | 0.046         |
| 258 | Traffic Flow | COSA      | El Monte                         | Blanco                             | San Pedro, Phase II           | 2005     | 2005            | 0.045         | 0.015         |
| 259 | Traffic Flow | COSA      | Lanark Drainage #92A, Phase 1    |                                    |                               | 2005     | 2006            | 0.383         | 0.128         |
| 260 | Traffic Flow | COSA      | Larkspur                         | West Ave                           | Baltic                        | 2005     | 2006            | 0.260         | 0.087         |
| 261 | Traffic Flow | COSA      | Sunset Ph I                      | Jones Maltsberger                  | Teak                          | 2005     | 2006            | 1.014         | 0.338         |
| 262 | Traffic Flow | COSA      | Alamo                            | Durango                            | Cedar                         | 2005     | 2006            | 0.328         | 0.109         |
| 263 | Traffic Flow | COSA      | Wurzbach Rd @ IH 10 Intersection |                                    |                               | 2005     | 2006            | 2.128         | 0.709         |
| 264 | Traffic Flow | COSA      | St. Marys Street                 | Alamo                              | Pereida                       | 2005     | 2006            | 0.202         | 0.067         |
| 265 | Traffic Flow | COSA      | Duke Area Streets, Phase I       |                                    |                               | 2006     | 2006            | 0.275         | 0.092         |
| 266 | Traffic Flow | COSA      | Culebra Area Streets Phase IV    |                                    |                               | 2006     | 2006            | 0.288         | 0.096         |
| 267 | Traffic Flow | COSA      | Howard Drainage                  | Wildwood                           | El Monte                      | 2006     | 2006            | 0.018         | 0.006         |
| 268 | Traffic Flow | COSA      | Ozark                            | Erskine                            | Williamsburg                  | 2006     | 2006            | 0.064         | 0.021         |
| 269 | Traffic Flow | COSA      | Semlinger Road                   | Lord                               | Rigsby                        | 2006     | 2005            | 0.434         | 0.145         |
| 270 | Traffic Flow | COSA      | Redland Road Improvements        | Redland Woods                      | Jones Maltsberger             | 2007     | 2006            | 2.516         | 0.839         |
| 271 | Traffic Flow | Bexar Co. | Lakeview Drive                   | Woodlake Parkway                   | Foster Road                   | 2006     | 2005            | 0.460         | 0.150         |
| 272 | Traffic Flow | Bexar Co. | Wiseman Road                     | Loop 1604 west                     | Talley Road.                  | 2004     | 2006            | 5.350         | 1.780         |
| 273 | Traffic Flow | Bexar Co. | Applewhite Road                  | Watson Road                        | Loop 1604.                    | 2004     | 2005            | 9.473         | 3.158         |
| 274 | TMS          | TxDOT     | IH 35                            | FM 1976 (Walzem Road)              | New Braunfels Ave.            | 1999     | 1999            | 151.37        | 50.46         |
| 275 | TMS          | TxDOT     | US 90                            | 0.8 Mi W. of IH 410                | Loop 353 Nogalitos            | 1999     | 1999            | 89.898        | 29.966        |
| 276 | TMS          | TxDOT     | IH 35                            | Guadalupe County Line NE           | 1.77 KM N of FM 1976 (Frat In | 2000     | 2000            | 41.339        | 13.780        |
| 277 | TMS          | TxDOT     | IH 36                            | 1.77 KM N. of FM 1976 (Fratt int.) | FM 1976 (Walzem)              | 2000     | 2000            | 30.396        | 10.132        |
| 278 | TMS          | TxDOT     | IH 37                            | Loop 13                            | 1.3 Mi S of US 181            | 2000     | 2000            | 9.089         | 3.030         |
| 279 | TMS          | TxDOT     | IH 410                           | Callaghan Road                     | Fredericksburg Road           | 2000     | 2000            | 37.141        | 12.380        |
| 280 | TMS          | TxDOT     | Loop 1604                        | 0.8 KM W of Babcock Road           | SH 16(N)                      | 2000     | 2000            | 14.741        | 4.914         |
| 281 | ITS          | TxDOT     | Loop 1604                        | On N and S frontage roads FM 1535  | Bitters Rd                    | 2001     | 2001            | 6.079         | 2.026         |
| 282 | ITS          | TxDOT     | Loop 1604                        | 3.21 KM E. of US 281 N.            | 1.61 KMN of FM 2252           | 1999     | 1999            | 52.434        | 17.478        |
| 283 | ITS          | COSA      | Houston - Walters To Onslow      | Onslow                             | New Braunfels                 | 2003     | 2003            | 2.085         | 0.695         |
|     |              |           |                                  |                                    |                               |          |                 | 878.764       | 339.650       |

**II. TERMS projects anticipated to complete by end of 2007, with given anticipated date of completion**

|   | Project Type | Agency | Project Name  | From       | To              | Let Date | Anticipated Completion | VOC (lbs/day) | NOx (lbs/day) |
|---|--------------|--------|---------------|------------|-----------------|----------|------------------------|---------------|---------------|
| 1 | Sidewalk     | COSA   | Mayfield      | Commercial | Zarzamora       | 2005     | 2007                   | 0.024         | 0.020         |
| 2 | Sidewalk     | COSA   | McCullough    | Basse      | RR Tracks       | 2005     | 2007                   | 0.087         | 0.073         |
| 3 | Sidewalk     | COSA   | Nakoma        | @ US 281   | 4C              | 2005     | 2007                   | 0.256         | 0.216         |
| 4 | Bike path    | COSA   | Malone / Theo | Quintana   | Concepcion Park | 2004     | 2007                   | 0.655         | 0.552         |
|   |              |        |               |            |                 |          |                        | 1.022         | 0.861         |

**II. TERMS projects anticipated to complete by end of 2007, with given anticipated date of completion**

Appendix B: TERMS

| Project Type | Agency    | CSJ Number | Project Name               | From                     | To              | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|--------------|-----------|------------|----------------------------|--------------------------|-----------------|----------|-----------------|---------------|---------------|
| Traffic Flow | COSA      | 1082       | Blanco Road                | Blanco Road - Hildebrand | Summit Phase 1  | 2006     | 2007            | 3.602         | 1.201         |
| Traffic Flow | COSA      | 792        | Ansley Blvd Drainage #1091 |                          |                 | 2006     | 2007            | 0.139         | 0.046         |
| Traffic Flow | COSA      | 809        | Ave Maria Drainage         |                          |                 | 2006     | 2007            | 0.056         | 0.019         |
| Traffic Flow | COSA      | 494        | Goliad Rd                  | Pecan Valley             | Military Drive  | 2006     | 2007            | 0.329         | 0.110         |
| Traffic Flow | COSA      | 790        | W. Craig                   | Elmendorf                | Josephine Tobin | 2006     | 2007            | 0.027         | 0.009         |
| Traffic Flow | COSA      | 951        | Woodlawn Ave:              | San Antonio              | Lake            | 2006     | 2007            | 0.199         | 0.066         |
| Traffic Flow | COSA      | 1041       | Marbach Phase I            | Military                 | Pinn            | 2007     | 2007            | 0.654         | 0.218         |
| Traffic Flow | Bexar Co. | NA         | Braun Road                 | Loop 1604                | FM 1560         | 2004     | 2007            | 1.600         | 0.530         |
| Traffic Flow | Bexar Co. | NA         | Bulverde Road              | Smithson Valley          | Hwy 281         | 2006     | 2007            | 0.300         | 0.100         |
| Traffic Flow | Bexar Co. | NA         | Foster Road                | I-10                     | Binz-Engleman   | 2004     | 2007            | 2.160         | 0.720         |
| Traffic Flow | Bexar Co. | NA         | Kriewald Road              | Hwy 90                   | Pue Road        | 2006     | 2007            | 0.140         | 0.050         |
| Traffic Flow | Bexar Co. | NA         | Pue Road                   | Kriewald Road            | Sunset Place    | 2006     | 2007            | 0.660         | 0.220         |

10.888 4.150

**III. TERMS projects anticipated complete by end of 2007, completion dates not yet given**

| Project Type | Agency |               | Project Name              | From                             | To                       | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|--------------|--------|---------------|---------------------------|----------------------------------|--------------------------|----------|-----------------|---------------|---------------|
| Bikeway      | COSA   | 915 12 289    | Cincinnati                | St. Mary's University            | Navidad                  | 2004     | TBDL            | 0.189         | 0.159         |
| Bikeway      | COSA   | 915 12 290    | Cincinnati / Ashby        | Navidad                          | North St. Mary's St.     | 2004     | TBDL            | 0.189         | 0.159         |
| Bikeway      | COSA   | 915 12 291    | Alamo / Broadway Corridor | Josephine                        | The Alamo                | 2004     | TBDL            | 0.297         | 0.251         |
| Sidewalk     | COSA   | 2708 1 27     | Blanco Road (FM 2696)     | Lockhill Selma                   | West Avenue              | 2004     | TBDL            | 0.421         | 0.355         |
| Grade Sep    | TxDOT  | 253 4 112     | US 281                    | Borgfeld Dr                      |                          | 2006     | TBDL            | 17.896        | 10.738        |
| Traffic Flow | TxDOT  | 521 4 237     | IH 410                    | Interchange at US 281 Fr: US 281 | Nacogdoches              | 1999     | TBDL            | 6.472         | 2.157         |
| Traffic Flow | TxDOT  | 2452 1 36     | Loop 1604                 | 0.6 KM N of Military Dr          | US 90                    | 2001     | TBDL            | 10.960        | 3.653         |
| Traffic Flow | TxDOT  | 2452 1 37     | Loop 1604                 | 1.6 KM N. of FM 471 (Culebra Rd) | 0.6 KM N of Military Dr. | 2001     | TBDL            | 10.818        | 3.606         |
| TMS          | TxDOT  | 521 - 4 - 190 | 410 Upgrade to 10 lanes   | Ingram Road                      | Callaghan Road           | 2006     | TBDL            | 103.350       | 34.449        |

TBDL: To Be Determine Later

150.592 55.527

## IV. TERMS projects anticipated complete post 2007

Appendix B: TERMS

|    | Project Type  | Agency    | CSJ Number | Project Name     | From           | To             | Let Date | Completion Date | VOC (lbs/day) | NOx (lbs/day) |
|----|---------------|-----------|------------|------------------|----------------|----------------|----------|-----------------|---------------|---------------|
| 1  | Sidewalk      | COSA      | 915 12 353 | Clark            | Southcross     | Hot Wells      | 2004     | 2008            | 0.073         | 0.062         |
| 2  | Sidewalk      | COSA      | 915 12 359 | Hot Wells        | IH 37          | New Braunfels  | 2004     | 2008            | 0.016         | 0.013         |
| 3  | Sidewalk      | COSA      | 915 12 372 | Woodlawn         | Bandera        | Maiden 4C      | 2005     | 2008            | 0.104         | 0.087         |
| 4  | Sidewalk      | COSA      | 915 12 393 | Sunset           | Teak           | Broadway 4C    | 2005     | 2008            | 0.103         | 0.086         |
| 5  | Sidewalk/bike | COSA      | NA         | Callaghan        | Bandera        | Horseshoe Bend | 2007     | 2008            | 0.414         | 0.349         |
| 6  | Intersection  | TxDOT     | 72 12 175  | IH 10            | Callaghan Road |                | 2004     | 2010            | 4.664         | 2.798         |
| 7  | Intersection  | TxDOT     | 72 8 112   | IH 10            | DeZavala Road  |                | 2004     | 2008            | 4.961         | 2.977         |
| 8  | Traffic Flow  | COSA      | NA         | 36th ST.         | US 90          | Growdon        | 2007     | 2008            | 2.792         | 0.931         |
| 9  | Traffic Flow  | COSA      | 771        | Florida          | IH 37          | St Marys       | 2006     | 2008            | 0.380         | 0.127         |
| 10 | Traffic Flow  | COSA      | 845        | Sunset Ph II     | Teak           | Broadway       | 2006     | 2008            | 0.538         | 0.179         |
| 11 | Traffic Flow  | COSA      | 951        | Woodlawn         | Bandera        | Maiden         | 2006     | 2008            | 0.114         | 0.038         |
| 12 | Traffic Flow  | COSA      | 1053       | Stahl Road       | O'connor       | Judson         | 2007     | 2008            | 1.147         | 0.382         |
| 13 | Traffic Flow  | Bexar Co. | NA         | Shaenfield Road  | Loop 1604      | FM 1560        | 2006     | 2008            | 0.180         | 0.060         |
| 14 | Traffic Flow  | Bexar Co. | NA         | Borgfeld Road    | Hwy 281        | Timberline     | 2004     | 2008            | 2.750         | 0.920         |
| 15 | Traffic Flow  | Bexar Co. | NA         | Woodlake Parkway | Binz-Engleman  | FM 78          | 2006     | 2008            | 1.580         | 0.530         |
|    |               |           |            |                  |                |                |          |                 | 19.816        | 9.539         |

## APPENDIX C – BUSINESS OF AIR: RESULTS



The Greater San Antonio Chamber of Commerce  
 The Business of Air: Understanding Nonattainment  
 Evaluation Results  
 25 Respondents

1. What was your purpose for attending this event?
  - To promote a Downtown Free Bus Zone
  - Education/ More information/ Learning- 21
  - Obtain pulse of business opinion of air quality
  - Considering a bakery in Bexar County
  - Interest in IAQ for schools - 2
2. What other topics would you have included in this event?
  - Decreasing automobiles in the downtown area
  - Something on TCEQ's role/ Outlook for new emission sources (i.e., pending applications for permits at TCEQ) -2
  - Impacts on a personal level, health, and expenses
  - Roadway/TxDOT Projects
  - Correlation of San Antonio's growth increases and air pollution
  - Strong strategies for future/ More technical solutions - 2
  - CPS Energy "Windtricity" program and rebate programs
  - MPE "Build S.A." program
  - Input from the City and surrounding communities regarding their perspectives and action plans
  - More on IAQ -2
3. Are you interested in attending future events in this series?
  - Yes- 22
  - No- 0
4. What topics would be of interest to you at future series events?
  - A Downtown Free Bus Zone
  - Air permitting, and those listed below
  - More global technologies/ Technology options and impacts for improving air quality -2
  - Continued Progress to understand Action plans implemented in keeping S.A. in attainment
  - Waste, recycling, water quality, more air quality
  - Any and all environmental issues facing our region
  - Follow-up after ozone season
  - Establishing a coalition for improving air quality and provide specific education for business & public

- Specifics
- Water, waste management, traffic management, airport community interface, railroad & mass transit
- What technology or requirements could industry expect
- Actions employed and specific effects
- Water
- The environment & economic development
- Wellness
- IAQ
- Outlook for new emission sources (i.e., pending applications for permits at TCEQ)

5. What industry do you represent? Would you be interested in an event to discuss how air quality specifically impacts your industry?

- Retired
- Plastics Manufacturing
- Food manufacturing and transport
- Legal
- Title Insurance
- Light Rail
- USPS/ Yes
- Environmental Consulting-2 / (1 No)
- Environmental/ Geotechnical Engineering/ CM Testing
- City of San Antonio-3 / (1 Yes)
- Energy/ CPS -2
- Power generation -2
- Baking / Yes- Very interested
- Tourism
- School District-3 / (1 Yes)

6. Please mark any topics that you would be interested in discussing at future events:

- ✓ Cap & Trade- 8
- ✓ New Source Review- The Details- 13
- ✓ Stated Federal Regulations- 10
- ✓ Local Stakeholders' Participation in the SIP Process- 9
- ✓ Voluntary Efforts to Reduce Pollution- 13
- ✓ Other:
- Downtown Free Bus Zone
- SIP as a whole

7. Please rate the following:

|                         |                | Excellent |       |      | Poor |  |   |
|-------------------------|----------------|-----------|-------|------|------|--|---|
| Convenience of location | Average: 4.318 | 5 -10     | 4 -9  | 3 -3 | 2    |  | 1 |
| Food                    | Average: 3.833 | 5 -5      | 4 -11 | 3 -7 | 2 -1 |  | 1 |
| Cost of the event       | Average: 4.130 | 5 -8      | 4 -10 | 3 -5 | 2    |  | 1 |

|               |                |       |       |      |   |   |
|---------------|----------------|-------|-------|------|---|---|
| Event overall | Average: 4.429 | 5 -10 | 4 -10 | 3 -1 | 2 | 1 |
|---------------|----------------|-------|-------|------|---|---|

8. Other Comments:

- Would have liked copies of George Beatty's presentation
- Can you send the Powerpoint presentations to the conference attendees? And we did not get a hard copy of Mr. Beatty's presentation.
- Why don't commercials (public education sources) address the public with the confidence that they can comprehend more technical data than they are given credit for? I believe if commercials, etc. would explain more about how ozone is formed, people would take it more seriously and feel as though they can contribute to making a difference. Some in the public don't believe in air quality issues as a problem because they have not been properly educated.
- Very educational- great speakers!
- Presenters were very good
- Additional technical information and different industry specifics
- Good job!
- With the price of gas, why not coordinate with the gas company and offer discounted gas prices after 4 p.m.?

## APPENDIX D – CLEAN AIR GAUGE

# Clean Air Gauge

*as of June 4, 2007*



**CleanAirDrive.com**

2007 is a critical year for our region to meet federal air quality standards.  
 Help keep us out of the RED ZONE!  
 Find out how at [CleanAirDrive.com](http://CleanAirDrive.com)

## Fourth Highest Ozone Averages

2005

2006

2007

86 ppb

87 ppb

???

The Clean Air Gauge visually displays where we stand in meeting these federal standards. As ozone levels rise this summer, the Clean Air Gauge will indicate how close our region is to violation of federal air quality standards, indicated on the gauge as the RED ZONE. We invite all businesses and media interested in promoting air quality awareness to post this image on their website.

Contact Heather Willden (210-362-5303) for image posting instructions.  
 The gauge can be seen at: [www.CleanAirDrive.com](http://www.CleanAirDrive.com).