

**Fiscal Year 2011 Rider 8 Phase II Work Plan
Effective Date September 1, 2010 through August 31, 2011**

Recipient: City of Victoria

Task 1: Update Conceptual Model through the 2010 Ozone Season

The Performing Party shall identify necessary and sufficient conditions for high or exceeding ozone measurements in their program area (defined as the immediate statistical area plus adjacent counties) at the ozone National Ambient Air Quality Standards (NAAQS). The Performing Party's analyses shall include any seasonal variations and use data through 2010 to the extent possible. In particular, the Performing Party's conceptual model will include the following analyses:

- Evaluate the wind speeds, directions and time of day associated with high ozone events to determine the local conditions and source alignments most frequently associated with high ozone events.
- Develop 24 to 48 hour back trajectories to determine source regions most (and least) likely to affect local area ozone.
- Conduct a weekday/weekend analysis to evaluate the potential effectiveness of reduced levels of local industrial and mobile source activity on their area;
- Evaluate the range and average background ozone concentrations associated with local wind directions;
- Investigate ozone and precursor trends and estimate the annual frequency of high ozone days at varying standard levels (above); and
- Address additional relevant questions listed in Section 11.1.1 of EPA's ozone modeling guidance document, *Guidance on the Use of Models and Other Analyses to Demonstrating Attainment of Air Quality goals for Ozone, PM2.5, and Regional Haze*.

Deliverable: The Performing Party shall deliver an updated Conceptual Model containing analysis of monitoring and other data through 2010. The conceptual model shall be delivered to the TCEQ in a Microsoft Office Word and Adobe Acrobat Reader (*.pdf) format. Accompanying data and other supporting material shall be provided in a mutually agreeable electronic format.

Deliverable Date: June 15, 2011.

Cost: \$28,000 (contractual)

Task 2: Ambient Monitoring Projects

2.1 The Performing Party shall continue to collect and deliver any routine, hourly ambient monitoring data collected in Fiscal Year 2010. In order to provide accurate quality assurance data for modeling efforts and track movement of pollutants, the Performing Party shall operate the ambient air monitoring sites listed in *Table 1: Ambient Air Monitoring Sites to be Operated by the Performing Party*, and ensure that these sites regularly transfer data to the TCEQ's Leading Environmental Analysis and Display System (LEADS) data system. These monitor sites are described in the FY 2010 Phase I work plan. The Performing Party shall operate these monitoring sites from September 1, 2010, through November 15, 2010 and April 1, 2011 until August 31, 2011, contingent upon funding availability.

This contractor-owned transfer standard will be calibrated according to TCEQ specifications, policies and procedures in the TCEQ's NAMS/SLAMS Network and U.S. Mexico Border Support Activities Quality Assurance Project Plan for Air Monitoring in Texas. These requirements are based on requirements found in the code of Federal Regulations (CFR) 40, Parts 50, 53, and 58. See URL <http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-C.htm>

Table 1: Ambient Air Monitoring Sites to be Operated by the Performing Party

LOCATION (ADDRESS)	EQUIPMENT (INSTRUMENTS)	START DATE	END DATE
Inez, Industrial Independent School District West Elementary School	Ozone Wind speed Wind direction	April 15, 2010 April 15, 2011	November 15, 2010 November 15, 2011
Coletto Creek , Coletto Creek Power plant	Ozone Wind speed Wind direction	April 15, 2010 April 15, 2011	November 15, 2010 November 15, 2011

NOTE: The cost of operating the monitors from April 15, 2010 to August 31, 2010 were covered under the FY2010 Phase I work plan. Phase II will cover from September 1, 2010 to November 15, 2010 and from April 15, 2011 to August 31, 2011.

Deliverable: Ambient monitoring data collected at monitoring sites described in the Fiscal Year (FY) 2010 Phase I work plan delivered to TCEQ's LEADS.

Deliverable Date: *Continuously between September 1, 2010, and November 15, 2010 and April 15, 2011, and August 31, 2011 contingent on funding availability, or as soon as practical.*

Cost: \$61,370 (contractual)

- 2.2 The TCEQ and Performing Party will both review the Performing Party's Enhanced Monitoring Proposal and Conceptual Model created as part of its FY 2010 work plan and develop a mutually agreeable set of requirements for any new monitoring equipment needed for the 2011 ozone season. If a mutual agreement cannot be reached, then the Performing Party shall deploy monitoring equipment at the direction of the TCEQ.

Deliverable: New monitoring equipment deployed at the TCEQ's direction in time to monitor ozone, ozone precursors, or meteorology on a continuous basis for the 2011 ozone season.

Deliverable Date: *April 15, 2011 through August 31, 2011*

Cost: Unknown at this time

- 2.3 During September 2010, 12 VOC canister samples will be collected at the Memorial Square Park, CAMS87 and the two new monitoring sites on three consecutive days. One duplicate sample will be collected along with one QA sample to test the flow meters. A report will be written that includes analyses of the data collected. The report will include a comparison with the VOC concentrations measured with canisters since 2005. The comparisons will be performed for the compounds that are typically measured at concentrations greater than 1.0 ppbV.

Deliverable: The Performing Party shall prepare a report detailing its findings to the TCEQ in Austin. The report shall be delivered to the TCEQ in a Microsoft Office Word and Adobe Acrobat Reader (*.pdf) format. Accompanying data and other supporting material shall be provided in a mutually agreeable electronic format.

Deliverable Date: June 15, 2011

Cost: \$30,000 (contractual)

- 2.4 Perform similar flux measurements around three source areas, such as a chemical plant, gas producing area, and the Victoria urban area, and/or near Victoria schools. A mobile sampling platform will be used to conduct ambient monitoring of TNMHC, NO_x, and O₃ and to obtain canister samples at a few locations where higher levels of VOC are measured. Sampling upwind and downwind of the selected source areas will be conducted to obtain ground level pollutant concentrations if instrumentation and other resources are available. The report will detail the sampling routes followed for each sampling trip and the concentrations measured along the route during each sampling trip. The results will be summarized for measurements taken in urban areas, measurements taken in areas upwind of Victoria and downwind

of Victoria and measurements taken near specific emission sources such as oil and gas production facilities, gasoline service stations and chemical plants.

Deliverable: The Performing Party shall prepare a report detailing its findings to the TCEQ in Austin. The report shall be delivered to the TCEQ in a Microsoft Office Word and Adobe Acrobat Reader (*.pdf) format. Accompanying data and other supporting material shall be provided in a mutually agreeable electronic format.

Deliverable Date July 15, 2011

Cost: \$30,000 (contractual)

Task 3: Emissions Inventory Improvement

3.1 The Performing Party shall implement emissions inventory improvements for any sources for which improvement plans were developed in the Phase I (FY 2010) work plan (Task 3.2).

Project I

During FY 2006-2007, six heavy-duty diesel trucks owned by the City of Victoria were sampled with the Portable Emissions Monitoring System (PEMS) and activity data were recorded. These vehicles included a garbage truck, knuckle boom recycling truck, dump truck, backhoe/loader, backhoe/loader, 4-wheel drive, and Gradall. Similarly, during FY 2008-2009, six additional diesel vehicles were sampled including a newer model garbage truck, grader (from Victoria County), Gradall (from Victoria County), two bulldozers from a power plant, and a locomotive from a power plant. The initial steps in the project were accomplished in Phase I of the work plan.

To better determine emissions from these vehicles it would be desirable to collect activity data for longer than a portion of a single day. This task for FY 2010-2011 would collect activity and fuel use data for one week for the following vehicles that were sampled in earlier studies:

A. Equipment used by a utility to repair leaking pipes or drains. Record daily activity data for one week of normal activity during the summer months for a backhoe/loader and one or two dump trucks.

B. Equipment used by a street department to clean drainage ditches. Record daily activity data for each day for one week of normal activity during the summer months for a Gradall and a dump truck.

C. Knuckle boom recycling truck. Collect daily activity data for one week of normal activity during the summer months.

D. Wheeled loader working at the material storage area. Collect daily activity data for one week of normal activity during the summer months.

In Phase I of the work plan UT developed a form that can be used to collect the activity data. The form will be designed such that it could be completed by the job foreman or by a City of Victoria staff member that could accompany the work force during the job. During this phase of the project the City of Victoria will collect the survey data. Then these activity data will be used to calculate the emissions from these vehicles over the summer ozone season as described in Task 6.1.2.

Using the data collected in Task 6.1.1, calculate emissions from selected heavy-duty diesel vehicles in the Victoria area. Also day of the week emissions diurnal emissions profiles will be established.

Project II

Emissions of volatile organic compounds (VOC) are required for photochemical modeling of ozone. Previous studies in Southeastern Texas, California, and other areas of the United States have shown that architectural coatings are an important component of area source VOC emission inventories. Emissions from architectural coatings are typically estimated using activity data based on paint shipments and emission factors available from the U.S.EPA's Emission Inventory Improvement Program (EIIP) or, in the case of California, from surveys conducted by the California Air Resources Board. Recently new emissions factors for architectural coatings have been developed by researchers at The University of Texas at Austin (UT). In addition, McGaughey et al. (2008) at UT have also conducted an analysis of emissions from architectural coatings in the Houston- Galveston-Brazoria (HGB) area. These analyses depend on national sales data with the paint sales distributed within the HGB area according to population. The current approach assumes that all the coatings purchased are used and none are stored. Anecdotal information indicates that in most cases not all of the purchased coatings are actually applied and the residual is stored. However, the impact of this under usage of purchased coatings has not been quantified nor taken into account when estimating emissions from architectural coatings.

Texanol is one of two primary VOC's found in latex-based architectural coatings. Recent studies in California where the ambient concentrations of Texanol have been measured show that the emissions of Texanol using the recommended approaches appear to be over estimated.

This project will evaluate emissions of Texanol as a marker for latex-based architectural coatings in the Victoria area using several approaches:

A. During Phase I of the project a survey was developed and reviewed by TCEQ staff. During this phase the survey will be conducted by the City of Victoria to determine the amount of each architectural coating type sold in the Victoria area.

B. During Phase I a survey was developed to be used by the City of Victoria. This survey will be conducted to determine the amount of architectural coatings that are applied compared to the amount of architectural coatings that are purchased. This will provide an estimate of the amount of architectural coatings that are stored. UT will prepare the survey which will be conducted by the City of Victoria.

C. The survey data in paragraphs A and B will be used by UT to estimate the VOC emissions from architectural coatings in the Victoria area.

D. Texanol concentrations will be sampled at Victoria at the same time that VOC canister samples are collected during September 2010. Two one-hour samples will be collected simultaneously each day that a VOC canister sample is collected at the Memorial Square Park sampling site. Samples will be collected by drawing ambient air through a tube packed with TENAX absorber using a battery-powered portable pump. At present sampling is planned for 3 consecutive days. The samples will be collected by the City of Victoria and analyzed by UT.

E. Using the emission estimates calculated in paragraph C, the photochemical model will be used by UT to estimate the concentrations of Texanol at the Memorial Square Park site. These concentrations will be compared to the concentrations measured at Memorial Park.

Deliverable: The Performing Party shall prepare a report documenting the emissions inventory improvement projects and providing the information necessary to update TCEQ modeling files. The report will describe the steps taken, any significant deviations from the previously developed plan, and any background the Performing Party feels is relevant to the project. The Performing Party shall provide the report in Microsoft Office Word and Adobe Acrobat Reader (*.pdf) formats. Any supporting data or information shall be provided in like format or in a format agreed to by the TCEQ and the Performing Party.

Deliverable Date: July 1, 2011

Cost: \$45,000 (contractual)

3.2 The Performing Party shall prepare a review of the Point, Area, and Non-Road portions of the 2008 National Emissions Inventories provided for each area by the TCEQ. The Performing Party shall identify additional significant source categories not identified in FY 2010 that it believes to be under or over estimated, accompanied by high levels of uncertainty, or where the

Performing Party believes it can provide additional or more detailed emissions inventory input at a sub-county level of analysis.

Deliverable: The inventory review shall be delivered to the TCEQ in a Microsoft Office Word and Adobe Acrobat Reader (*.pdf) format. Any supporting data or information shall be provided in like format or in a format agreed to by the TCEQ and the Performing Party.

Deliverable Date: *June 1, 2011*

Cost: \$5,000 (contractual)

3.3 The Performing Party shall work with the TCEQ to insert improved local emissions inventory data (from Task 3.1) in to the 2008 baseline and future year emissions inventories for the selected photochemical modeling episode. The Performing Party shall thoroughly document their efforts.

Deliverable: The Performing Party shall assist the TCEQ staff in preparing improved local emissions inventory information for entry into photochemical modeling emissions inventories.

Deliverable Date: July 15, 2011

Cost: \$5,000 (contractual)

Task 4: Air Quality Modeling Planning for FY2011

During the Phase II period (September 1, 2010, through August 31, 2011), the TCEQ and the Performing Party will be engaged in several photochemical modeling activities designed to advance the Texas State Implementation Plan (SIP). The goal of these Phase II activities is to prepare both a working June 2006 base case ozone episode and a 2008 baseline scenario of this base case.

Some of the steps involved in reaching this goal may include, but are not limited to:

Primarily Responsibility of the TCEQ:

1. Completing performance evaluations of the Weather Research and Forecasting (WRF) meteorological modeling;
2. Producing meteorological modeling optimized for inland and coastal areas;
3. Developing and/or modifying 2006 meteorological and emissions inputs for an alternative modeling domain;

Primary Responsibility of the Performing Party with Oversight of the TCEQ:

4. Developing a photochemical modeling protocol appropriate for submittal as part of a Texas SIP revision based on a revised eight-hour ozone standard;
5. Improving and upgrading modeling emissions inventories for the 2008 baseline scenario of this ozone episode;
6. Investigating model performance of the 2006 base case ozone episode;

Primary Responsibility of the Performing Party:

7. Investigating possible ozone sources transported into a particular nonattainment area along with the formation of ozone within the area based on precursor emissions;
8. Investigating model sensitivity to broad changes in precursor emissions using tools such as Anthropogenic Precursor Culpability Assessment (APCA), Ozone Source Apportionment Technology (OSAT), or High-order Decoupled Direct Method (HDDM); and
9. Evaluation of potential local voluntary or mandatory control strategies.

During Phase II, the TCEQ will continually work to develop the overall photochemical modeling episode and periodically deliver updates to the Performing Party via internet, FTP site, or disk drive (for large files) provided by the Performing Party. Steps 1-3 will be the primary responsibility of the TCEQ while steps 7-9 will be the primary responsibility of the Performing Party. Steps 4, 5, and 6 will be primarily a Performing Party responsibility with significant oversight by staff at the TCEQ.

The Performing Party is encouraged to perform appropriate modeling sensitivities which may include APCA runs, OSAT runs, HDDM runs, or source category sensitivities which may provide the Rider 8 areas and the TCEQ with preliminary information regarding the more efficient control strategies to pursue. The use of "zero out" runs whereby anthropogenic precursor emissions are eliminated over large geographic areas is discouraged.

There are several guidelines that the Performing Party shall adhere to.

First, in applying the photochemical model, the Performing Party may not analyze or model control strategies unless they meet the following criteria:

1. The geographic applicability is limited to the Performing Party's program area; and
2. The control strategy is either voluntary or can be implemented under a political subdivision's existing legal authority.

Second, because the TCEQ's staff resources are limited, the Performing Party should expect that technical assistance will be limited to answering specific questions from experienced users of EPS3, CAMx, WRF, LINUX operations systems, and LINUX systems management. Staff from the TCEQ will not be available to provide comprehensive assistance to inexperienced users of EPS3, CAMx, WRF, and LINUX. Third, distribution of multiple and/or large size modeling files to the Performing Party shall require a hard drive shipped and provided at the Performing Party's expense and formatted for LINUX operating systems. Fourth, the TCEQ will not reimburse the Performing Party for any use of photochemical modeling episodes developed for periods prior to 2005.

Deliverable: The Performing Party shall document its photochemical modeling activities as part of its regular monthly progress report. The Performing Party shall include any important analyses and results from its inventory development and photochemical modeling work. The Performing Party shall provide the report in Microsoft Office Word and Adobe Acrobat Reader (*.pdf) formats. Any supporting data or information shall be provided upon request in like format or in a format agreed to by the TCEQ and the Performing Party. For emission inventory and/or modeling file improvements, the Performing Party shall provide all "upstream" inputs in an appropriate electronic format so that suggested changes can be readily replicated and incorporated by the TCEQ staff.

Deliverable Date: August 1, 2011

Cost: \$39,000 (contractual)

Task 5: Local Control Strategies

The Performing Party shall develop and analyze *local* control strategies according to guidance developed by the TCEQ Air Quality Planning Section. The control strategy analyses shall contain sufficient information for TCEQ modeling staff to modify emissions inventory input files and Air Quality Planning may properly document the strategies in any SIP revision. The local control strategies must meet the four criteria for SIP credit (quantifiable, enforceable, surplus, and permanent).

Deliverable: The Performing Party shall prepare a Local Control Strategy Analysis Document describing the control strategies recommended for inclusion into applicable SIP revisions and providing sufficient documentation for TCEQ staff to utilize in a SIP revision.

Deliverable Date: August 15, 2011.

Cost: \$20,000 (contractual)

Task 6: Outreach

6.1 The Performing Party shall maintain and facilitate stakeholder groups or committees that include local governments, businesses, citizens groups, and environmental groups. The purpose of these stakeholder groups shall be (to the extent the Performing Party determines appropriate) to foster community participation in local ozone reduction efforts, review technical work, serve as source of information or ideas in developing local ozone reduction efforts.

Deliverable: The Performing Party shall document its activities (including how many stakeholders attend meetings) and meetings with meeting summaries and in the monthly progress reports.

Deliverable Date: Monthly

Cost: \$2,934.10 (\$2,640.00 salary/fringe, \$294.10 other)

6.2 The Performing Party shall maintain a public web site to facilitate public access to air quality information and the technical or outreach undertaken by the Performing Party. The Performing party shall document traffic on its website by counting the number of times the web site is "hit" each month.

Web site will contain:

1. Electronic Copies of technical reports funded under this grant;
2. Data (other than ambient monitoring data routinely sent to TCEQ electronically) collected under the grant (the data should be paired with its associated technical report);
3. Copies of presentations or documents distributed at local stakeholder or planning meetings, and
4. Monthly progress reports.

Deliverable: The Performing Party shall produce and/or maintain a working web site open to the general public on the internet as well as information documenting web site traffic.

Deliverable Date: Continuously. Documentation of web site traffic shall be entered into the Performing Party's monthly progress report.

Cost: \$1,205.84 (\$705.84 salary/fringe, \$500.00 other)

6.3 The Performing Party shall employ an Education Specialist to act as a resource on environmental education for educators and schools in the Victoria area. The Performing Party shall develop, maintain and implement air quality curriculum in K-12 schools throughout Victoria and in Victoria County to educate students about air quality issues. Air Victoria has established working relationships with many area schools, and establishes new relationships each year. Air Victoria has implemented Andy Airedale, Drive Clean Across Texas and Blue Sky Initiative curriculum in area schools. The Blue Sky Initiative is the main air quality program for schools currently used by Air Victoria. The Blue Sky Initiative reduces school zone idling including bus driver/parent/teacher/administrator/student education.

New locations, including junior and secondary campuses will be added to this program, and curriculum and supplements for all grade levels will be created. Implementation of Blue Sky Initiative includes faculty, staff, student and community training.

Deliverable: The Performing Party's curriculum products will include flyers, brochures, lesson plans and website activities such as games and flash cards. Curriculum products will be shared with 22 or more campuses. Student exposure to the curriculum will be quantified using the Blue Sky Pledge, which asks students/parents to not idle their vehicles if they will be waiting on a school campus for more than 1 minute. The number of presentations and people reached with curriculum shall be documented. Curriculum products and publications will be delivered to TCEQ in hard copy and e-format. The Performing Party shall also document the number of schools and students using the curriculums developed by the Grant Recipient.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 7 of this work plan. A final delivery of materials shall be provided no later than August 1, 2011.

Cost: \$39,497.84 (\$38,247.84 salary/fringe, \$1,250.00 other)

6.4 The Performing Party shall deliver air quality presentations to public groups in Victoria and Victoria County via PowerPoint, video, audio and interactive presentations modified for diverse audiences with accompanying educational materials addressing air quality subject matters.

Deliverable: PowerPoint presentations, brochures, invitations, agendas, video and audio files and other items associated with public presentations will be provided in hard copy and e-format. The Performing Party will report the number of presentations or events attended, the type of audience, and approximate number of people reached.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 7 of this work plan. A final delivery of materials shall be provided no later than August 1, 2011.

Cost: \$13,718.60 (\$13,218.60 salary/fringe, \$500.00 other)

6.5 The Performing Party shall sponsor a spring ozone season kick-off event in Victoria. The spring event will be held around Earth Day, which is near the start of ozone season and will be called the Earth Day Expo.

Deliverable: Deliverables include items produced for the events including advertising, flyers, brochures, invitations, photographs, media coverage and other related items.

Deliverable Date: August 1, 2011.

Cost: \$15,718.60 (\$13,218.60 salary/fringe, \$1500.00 other, 1,000.00 supplies)

6.6 The Performing Party shall alert the public about ozone action days using the National Weather Service telephone recordings, TCEQ's web-based "Today's Air Quality Forecast", the Air Victoria web site, television weather information channels and weather radio announcements.

Deliverable: The Performing Party shall document project activity on a monthly basis. Publications created as ozone alerts such as email blasts.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 7 of this work plan. A final delivery of materials shall be provided no later than August 1, 2011.

Cost: \$2,634.44 (\$2,134.44 salary/fringe, \$500.00 other)

6.7 The Performing Party shall design and purchase air quality print advertising, purchase production of television commercials, write television and radio scripts and Public Service Announcements and have advertisements translated to Spanish. Advertisements promote behavioral changes that improve air quality. The Performing Party shall solicit feedback via a series of polls posted on www.airvictoria.org and use "How did you hear about us" surveys at events and presentations to determine whether advertisements are being seen and actions taken based on our messages.

Deliverable: The Performing Party shall document project activity on a monthly basis. The Performing Party shall also prepare a report analyzing the solicited feedback. The Performing Party shall provide the TCEQ with hard copy and e-files of advertisements.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 7 of this work plan. A final delivery of materials shall be provided no later than August 1, 2011.

Cost: \$102,695.80 (\$92,919.80 contractual, \$3,381.80 other, \$6,394.20 salary/fringe)

6.8 The Performing Party shall facilitate educational booths at major community events, including but not limited to Health-o-Rama, Business Expo and the

Healthy Aging Conference, with distribution of educational materials and public interaction.

Deliverable: The Performing Party shall document project activity on a monthly basis. Any items specifically produced for public events including brochures, flyers, information sheets and more will be delivered in hard copy and e-format.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 7 of this work plan. A final delivery of materials shall be provided no later than August 1, 2011.

Cost: \$4,977.92 (\$500.00 other, \$4,477.92 salary/fringe)

6.9 The Performing Party shall continue to grow the Air Victoria Team program educating small businesses on methods to reduce emissions. The Performing Party shall create initiatives and recruit businesses to join the Air Victoria Team. The Performing Party shall hold Air Victoria Team meetings, workshops and events. The Performing Party shall offer incentives such as appearance on an Air Victoria billboard, recognition on www.airvictoria.org and Air Victoria Team publications, and membership certificates to display at team member businesses and equipment exchanges to members. The Performing Party shall recruit businesses involved in auto body, surface coating work, dry cleaning, baking, graphic arts, and degreasing to join the Air Victoria Team in phases.

Deliverable: The Performing Party shall document project activity on a monthly basis. Program materials including brochures, flyers, and informational documents used in recruiting and training Air Victoria Team members shall be delivered in hard copy and e-format.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 7 of this work plan. A final delivery of materials shall be provided no later than August 1, 2011.

Cost: \$15,472.88 (\$500.00 supplies, \$1,500.00 other, \$13,472.88 salary/fringe)

6.10 The Performing Party shall contribute articles, editorials and photos to the Victoria Advocate newspaper. The newspaper and its associated publications have a daily circulation of 75,000. The Performing Party shall participate in television and/or radio interviews and shows such as Community Crossroads with the Victoria Television Group.

Deliverable: The Performing Party shall document project activity on a monthly basis. Articles, editorials and photos will be delivered in hard copy and e-format. Video and audio pieces will be delivered in e-format when available.

Deliverable Date: The Performing Party shall document project activity on a monthly basis through the monthly progress reports required in Task 7 of this work plan. A final delivery of materials shall be provided no later than August 1, 2011.

Cost: \$3,100.76 (\$2,600.76 salary/fringe, \$500.00 other)

- 6.11 The Performing Party, with prior approval from TCEQ in Austin, may travel to various meetings including, but not limited to:
- Near Non-Attainment meetings – meet with other Texas near non-attainment groups
 - Texas Clean Air Working Group meetings – receive air quality updates from around Texas
 - Texas Association for Environmental Education Conferences and Meetings – Program Coordinator is a board member of TAE; provides networking with education/outreach groups throughout Texas
 - Environmental Health Sciences Summer Institute - training for educators in new Environmental curriculums
 - CAST conference – educators conference hosted by the Science Teachers Association of Texas
 - TCEQ Trade Fair – receive environmental training
 - EPA Educators Roundtable – network with educators from EPA Region 6

Travel and training will provide air quality staff with opportunities to better understand air quality issues, network and find resources. Travel to conferences is only reimbursable when those conferences have a significant portion of their agenda that addresses reducing ozone pollution.

Deliverable: The Performing Party shall provide the TCEQ with a trip report with conference agendas in the next monthly report summarizing conferences attended.

Deliverable Date: August 15, 2011

Cost: \$12,110.25 (\$4,941.20 travel, \$1,000.00 other, \$6,169.05 salary/fringe)

Task 7: Administrative Activities

The Performing Party shall perform all support necessary to ensure that all grant requirements are met and that the Work is completed in a timely manner with sufficient quality. This may include, but is not limited to providing general supervision for grant activities, administering sub-contracts, submitting reports and invoices, facilitating and/or attending meetings for stakeholder groups or other

planning entities. The Performing Party shall summarize its activities in a monthly progress report described below.

Deliverable: The progress report and monthly invoices shall document, in sufficient technical detail and by task, the accomplishments, expenditures, and milestones achieved during the prior thirty (30) days in monthly progress reports. Specifically, the monthly progress report shall:

1. Summarize all activities performed by the Performing Party with respect to each task and subtask of this work plan for the previous month;
2. Establish performance goals for each task and subtask for the month in which the report is delivered;
3. Compare accomplishments on every task and subtask to performance goals established the previous month;
4. Summarize reasons why performance goals were not met; and
5. Provide a preliminary estimate of costs by task and subtask for the reporting period.

Deliverable Date: The Performing Party shall submit, via electronic mail, a monthly progress report of its activities no later than the 10th day of each month or the next business day if the 10th of the month falls on a weekend or holiday. Monthly invoices should be submitted to the TCEQ monthly as soon as practical.

Cost: \$123,601.70 (\$4,250.00 supplies, \$6,561.25 other, \$112,790.45 salary and benefits)

FY 2011 Summary of Deliverables

In the event of a conflict between the deliverables or due dates shown in this table and the deliverables or due dates described above, the deliverables and due dates in the table prevail, except that if a deliverable is described above but is not shown on this table, it shall nevertheless be due as described above.

Deliverable	Deliverable Date
Task 1: The Performing Party shall deliver an updated Conceptual Model containing analysis of monitoring and other data through 2010.	June 15, 2011
Task 2.1: Ambient monitoring data collected at monitoring sites described in the Fiscal Year (FY) 2010 work plan delivered to TCEQ's LEADS. New monitoring equipment deployed at the TCEQ's direction in time to monitor ozone, ozone precursors, or meteorology on a continuous basis for the 2011 ozone season.	Continuously between September 1, 2010, and November 1, 2010 and April 15, 2011, and August 31, 2011 contingent on funding availability, or as soon as practical.
Task 2.2: New monitoring equipment deployed at the TCEQ's direction in time to monitor ozone, ozone precursors, or meteorology on a continuous basis for the 2011 ozone season.	April 15, 2011 through August 31, 2011
Task 2.3. Hydrocarbon and Ozone Flux measurements	July 15, 2011
Task 2.4 Hydrocarbon, NO _x , and Ozone Flux measurements around three particular source areas.	July 15, 2011
Task 3.1: The Performing Party shall prepare a report documenting the emissions inventory improvement projects and providing the information necessary to update TCEQ modeling files.	July 1, 2011
Task 3.2: Review of 2008 Point, Area, and Non-Road portions of TCEQ's National Emissions Inventory for additional categories to approve	June 1, 2011

Deliverable	Deliverable Date
Task 3.3: The Performing Party shall assist the TCEQ staff in preparing improved local emissions inventory information for entry into photochemical modeling emissions inventories.	July 15, 2011
Task 4.1: The Performing Party shall inform the TCEQ when it has successfully installed the photochemical modeling files through its monthly progress report.	January 1, 2011
Task 4.2: The Performing Party shall prepare a report documenting the model performance evaluation tasks and providing the information necessary to for TCEQ to assess the 2008 base line ozone model performance.	May 15, 2011
Task 4.3: The Performing Party shall prepare a report documenting the model performance evaluation tasks and providing the information necessary to for TCEQ to assess the 2008 base line ozone sensitivity model performance.	July 15, 2011
Task 5: The Performing Party shall prepare a Local Control Strategy Analysis Document describing the control strategies recommended for inclusion into applicable SIP revisions and providing sufficient documentation for TCEQ staff to utilize in a SIP revision.	August 15, 2011
Task 6.1: The Performing Party shall document its activities (including how many stakeholders attend meetings) and meetings with meeting summaries and in the monthly progress reports.	Monthly
Task 6.2: The Performing Party shall produce and/or maintain a working web site open to the general public on the internet as well as information documenting web site traffic.	Continuously. Documentation of web site traffic shall be entered into the Performing Party's monthly progress report.
Task 6.3: Air Quality Curriculum in Schools	August 1, 2011
Task 6.4: Presentations	August 1, 2011
Task 6.5: Hosted Events	August 1, 2011

Deliverable	Deliverable Date
Task 6.6: Ozone Alert System	August 1, 2011
Task 6.7: Advertising	August 1, 2011
Task 6.8: Public Events	August 1, 2011
Task 6.9: Air Victoria Team	August 1, 2011
Task 6.10: Publicity	August 1, 2011
Task 6.11: Travel	August 1, 2011
<p>Task 7: The progress report and monthly invoices shall document, in sufficient technical detail and by task, the accomplishments, expenditures, and milestones achieved during the prior thirty (30) days in monthly progress reports.</p>	<p>The Performing Party shall submit, via electronic mail, a monthly progress report of its activities no later than the 10th day of each month or the next business day if the 10th of the month falls on a weekend or holiday. Monthly invoices should be submitted to the TCEQ monthly as soon as practical.</p>
<p>Annual Cost Allocation Plan Documentation Section 12.8.1</p>	<p>The Performing Party shall annually provide to the TCEQ, copies of its current cost allocation plans for indirect, allocated central service, and billed central service costs within thirty (30) days of that plan being approved by its cognizant agency or state coordinating agency.</p>
<p>Section 12.8.2: Indirect and Allocated Central Service Costs Recovery Report for the Year Ending August 31</p>	<p>October 31 of each year</p>