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SERVING A FOURTEEN –COUNTY REGION

March 16, 2010

Leigh Ann Brunson
Texas Commission on Environmental Quality
P.O. Box 13087, MC-164
Austin, Texas 78711-3087

RE: Rider 8 Air Quality Monthly Progress Report–Tyler/Longview/Marshall Near Non-Attainment Area

Dear Ms. Brunson:

Attached, please find the Rider 8 Air Quality Monthly Progress Report for the Tyler/Longview/Marshall Near Non-Attainment Area. This program activity report includes work accomplished by our primary consultant, ENVIRON; program administration by ETCOG staff and the legal firm of Mathews & Freeland; and public education for the month of February 2010. If you have any questions or comments, please contact me at (903) 984-8641, Ext. 209.

Sincerely,

Rick McKnight
Environmental Manager

RJM/pa

Attachments

TCEQ GRANT NUMBER: 582-8-86229

Total Grant Period

From: September 1, 2007 To: March 31, 2010

Period Covered By This Report (Reporting Period)

From: February 1, 2010 To: February 28, 2010

Type of report:

Monthly Progress Report

Financial Status Report Activity Confirmation Report

Not later than the 4th of each month, complete the questions below, mark the space for Monthly Progress Report, and submit this report to the TCEQ as a Monthly Progress Report.

Activities Accomplished During This Reporting Period

1. Refer to the Scope of Work and the Grant and identify by section and task number any work completed or on-going activity, including the submission of deliverables, during the reporting period.

Work Plan Status:

- Task 1: 100% completed.
- Task 2: 78% completed.
- Task 3: 81% completed.
- Task 4: 82% completed.
- Task 5: 100% completed.
- Task 6: 83% completed.
- Task 7: 94% completed.
- Task 8: 0% completed

2. During the reporting period, what problems were identified? No problems were identified.
3. For each problem identified in 2 above, what corrective action was taken? N/A
4. Describe the key program accomplishments during the reporting period. The following sections detail work accomplished by primary contractor ENVIRON, ETCOG, and the legal firm of Mathews & Freeland.

ETCOG Progress Report
AIR QUALITY PLANNING PROJECT SUMMARY REPORT

1. Contractor: ETCOG	2. Contract No.: No. 582-8-86229
3. Report No.: 23	4. Report Period: February 1- February 28, 2010
5. Percent (%) Completed to Date: 88%	6. Estimated Completion Date: March 31, 2010

7. STATUS OF COMPLETION OF WORK TASKS*: For each major work task or deliverable set forth in your grant contract, provide the following information (use the accompanying sheet):

- a) Estimate the percent (%) complete of the task or deliverable.
- b) Briefly explain the activities conducted to date towards completing the task or deliverable. Be sure to provide information on the status of equipment purchases and/or facility construction, if applicable.
- c) List the major activities remaining to be conducted towards completing the task or deliverable.
- d) Provide an estimated date for the completion of the task or deliverable.
- e) Explain any problems or delays in completing the task or providing the deliverable.

**Provide copies of all materials and documents produced with grant funds to date (e.g., reports, plans, brochures, educational materials, videos, etc.).*

8. SIGNATURE:

_____	3/16/2010
Signature of Submitting Official	Date Submitted
<u>Rick McKnight, Environmental Manager</u> Typed or Printed Name and Title	

9. If Final Report:

Project Completion Certification:
 For the final report, the submitting official certifies that to the best of his/her knowledge and belief, all tasks and deliverables required under the grant have been completed, except as noted and fully explained in the report, and the terms of the grant contract have been met.

**AIR QUALITY PLANNING PROJECT SUMMARY REPORT
STATUS OF COMPLETION OF WORK TASKS**

Task 1: Develop Work Program

- A. Percent (%) completed: 100%
- B. Activities conducted to date:

Task 1.1 Detailed Work Plan

A work plan was developed. The work plan will be revised as needed during the remainder of the project.

June 2008: Developed plan for HRVOC monitoring in August/September 2008 under Task 3.1

December 2008: Developed plan for next biennium

December 2008: Developed plan for NOy mobile monitoring project

February 2009: Developed plan for NOy mobile monitoring project

April 2009: Developed plan for NOy mobile monitoring project

June 2009: Developed plan for CAMS 19 TNHMC monitoring project

June 2009: Developed plan for next biennium

October 2009: Developed plan for next biennium

November 2009: Developed plan for next biennium

November 2009: Developed plan for HRVOC monitoring at CAMS 19 in August/September 2010

December 2009: Developed plan for next biennium

December 2009: Developed plan for HRVOC monitoring at CAMS 19 in August/September 2010

- C. Major activities remaining to complete the task: None
- D. Estimated completion date: March 2010
- E. Comments:

Task 2: Maintaining the Early Action Compact

- A. Percent (%) completed: 79%
- B. Activities conducted to date:

Task 2.1 Early Action Compact Documentation and Support

December 2008: Wrote draft letter to Eastman Complex companies regarding HRVOC measurements at CAMS19.

January 2009: Developed FY 2010-2011 work plan white paper

January 2009: Began report summarizing NETAC's technical activities

February 2009: Developed plan for NOy mobile monitoring project

February 2009: Completed report summarizing NETAC's 2008 technical activities.

May 2009: Analyzed costs and benefits of proposed controls on local power plants
May 2009: Began study of 2006-2008 local power plant NOx emissions and heat input to support further control cost-benefit analysis
June 2009: Continued study of 2006-2008 local power plant NOx emissions and heat input to support further control cost-benefit analysis.
July 2009: Continued study of 2006-2008 local power plant NOx emissions and heat input to support further control cost-benefit analysis.
November 2009: Began report summarizing NETAC's 2009 technical activities
December 2009: Continued report summarizing NETAC's 2009 technical activities
January 2010: Continued report summarizing NETAC's 2009 technical activities

Task 2.2 NETAC Meetings

October 2008: Prepared agendas for NETAC Policy and Technical Committee meetings on November 7 in Longview
October 2008: Prepared presentations for NETAC Policy and Technical Committee meetings on November 7 in Longview
November 2008: Attended NETAC Policy and Technical Committee Meetings on November 7 in Longview.
December 2008: Attended NETAC Technical Advisory Committee Phone Conference on December 12.
February 2009: Prepared agenda for NETAC Technical Advisory Committee Phone Conference on February 6.
February 2009: Attended NETAC Technical Advisory Committee Phone Conference on February 6.
April 2009: Prepared agendas for NETAC Policy and Technical Committee Meetings on April 28 in Longview
April 2009: Attended NETAC Policy and Technical Committee Meetings on April 28 in Longview
May 2009: Prepared agenda for NETAC Technical Advisory Committee Phone Conference on May 28.
May 2009: Attended NETAC Technical Advisory Committee Phone Conference on May 28.
July 2009: Attended TCEQ TexN Nonroad Emissions Model training in Austin on July 6-7
September 2009: Prepared agenda for NETAC Technical Committee Phone Conference on September 29.
September 2009: Attended NETAC Technical Advisory Committee Phone Conference on September 29.
October 2009: Prepared agendas for NETAC Policy and Technical Committee meetings on October 16 in Longview
October 2009: Attended NETAC Policy and Technical Committee meetings on October 16 in Longview
January 2010: Prepared agenda for NETAC Technical Committee Phone Conference on February 25

- C. Major activities remaining to complete the task:
- D. Estimated completion date: March 2010
- E. Comments:

Task 3: Enhanced Ambient Monitoring

- A. Percent (%) completed: 81%
- B. Activities conducted to date:

3.1 NETAC Research Monitoring Site 2008

July 2008: Set up HRVOC monitoring at CAMS 19

August 2008: Performed HRVOC monitoring at CAMS 19

September 2008: Performed HRVOC monitoring at CAMS 19

October 2008: Performed HRVOC monitoring at CAMS 19

September 2009: Repaired TNMHC instrument in advance of deployment at CAMS 19

September 2009: Developed QAPP for TNMHC monitoring at CAMS 19

October 2009: Deployed TNMHC monitor at CAMS 19 and began monitoring

November 2009: Performed TNMHC monitoring at CAMS 19

December 2009: Performed TNMHC monitoring at CAMS 19

January 2010: Performed TNMHC monitoring at CAMS 19

3.2 Conceptual Model Update

October 2008: Analysis of 2008 high ozone days

October 2008: Analysis of CAMS 19 HRVOC data

November 2008: Analysis of 2008 high ozone days

November 2008: Analysis of CAMS 19 HRVOC data

December 2008: Analysis of CAMS 19 HRVOC data

February 2009: Began preprocessing for AERMOD modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site.

March 2009: AERMOD modeling of 2008 high HRVOC events measured CAMS19 Research Monitoring Site.

March 2009: Analysis of March 16, 2009 high ozone day

April 2009: Completed AERMOD modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site

April 2009: Developed plan for CAMx modeling of 2008 high HRVOC events measured at CAMS 19 Research monitoring Site

May 2009: Began CAMx modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site

May 2009: Analysis of May high ozone days

June 2009: Continued CAMx modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site

June 2009: Analysis of June high ozone days

July 2009: Continued CAMx modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site

July 2009: Began analysis of TCEQ Longview and Karnack VOC canister data
August 2009: Continued CAMx modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site
August 2009: Analysis of July high ozone days
September 2009: Completed analysis of 2009 high ozone days
September 2009: Continued CAMx modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site
October 2009: Completed CAMx modeling of 2008 high HRVOC events measured at CAMS 19 Research Monitoring Site
November 2009: Analysis of relationship between weather and high ozone days at the Tyler and Karnack monitors
January 2010: Analyzed high TNMHC/NOx events at CAMS 19

3.3 NOy Mobile Monitoring Project

September 2009: Trip planning for mobile monitoring project
October 2009: Developed QAPP for mobile monitoring project
October 2009: Began vehicle based mobile sampling to assess pollutant concentrations in Northeast Texas with focus on rural areas with oil and gas production
November 2009: Continued vehicle-based mobile sampling to assess pollutant concentrations in Northeast Texas with focus on rural areas with oil and gas production
December 2009: Prepared report on vehicle-based mobile sampling to assess pollutant concentrations in Northeast Texas with focus on rural areas with oil and gas production
January 2010: Continued preparation of report on vehicle-based mobile sampling

C. Major activities remaining to complete the task:

Enhanced Ambient Monitoring Projects

D. Estimated completion date: March 2010

E. Comments:

Task 4: Emission Inventory Updates

A. Percent (%) completed: 82%

B. Activities conducted to date:

4.1 Emissions Inventory Improvements

February 2009: Began research on determining geographic extent, available reserves, and resources for making projections of future production in Haynesville Shale
March 2009: Continued research on determining geographic extent, available reserves, and resources for making projections of future production in Haynesville Shale.

March 2009: Began development of questionnaire and cover letter requesting information on future production and equipment use from energy companies active in the Haynesville Shale.

April 2009: Completed questionnaire and cover letter requesting information on future production and equipment use from energy companies active in the Haynesville Shale

April 2009: Developed QAPP for questionnaire for energy companies and submitted to TCEQ for review

April 2009: Continued research on determining geographic extent, available reserves, and resources for making projections of future production in Haynesville Shale

May 2009: Continued research on determining geographic extent, available reserves, and resources for making projections of future production in Haynesville Shale

June 2009: Began development of future year emission inventory for natural gas development in the Haynesville Shale

July 2009: Completed research on determining geographic extent, available reserves, and resources for making projections of future productions in Haynesville Shale

July 2009: Continued development of future year emission inventory for natural gas development in the Haynesville Shale

August 2009: Completed development of future year emission inventory for natural gas development in the Haynesville Shale

August 2009: Completed report on Haynesville Shale emission inventory development

4.3 Emission Inventory Support for Ozone Modeling

January 2009: Began integration of NETAC gas compressor engine load factor survey data into 2005 emission inventory.

January 2009: Began integration of updated TCEQ drill rig emission inventory into 2005 emission inventory.

February 2009: Continued integration of NETAC gas compressor engine load factor survey data into 2005 emission inventory.

February 2009: Continued integration of updated TCEQ drill rig emission inventory into 2005 emission inventory.

March 2009: Completed integration of updated TCEQ drill rig emission inventory into 2005 emission inventory

March 2009: Final QA of new emission inventory components and processing into CAMx-ready format.

April 2009: Final QA of new emission inventory components and processing into CAMx-ready format

April 2009: Began development of 2012 emission inventory

May 2009: Continued development of 2012 emission inventory

June 2009: Continued development of 2012 emission inventory

July 2009: Developed 2005 baseline emission inventory

July 2009: Continued development of 2012 emission inventory

August 2009: Completed report on Haynesville Shale emission inventory development

September 2009: Continued Development of 2012 emission inventory

October 2009: Projected future oil and gas well and production data for Northeast Texas

October 2009: Continued development of 2012 emission inventory

October 2009: Began processing Haynesville Shale emission inventory for inclusion in 2012 ozone modeling

November 2009: Continued development of 2012 emission inventory

November 2009: Continued processing Haynesville Shale emission inventory for inclusion in 2012 ozone modeling

December 2009: Completed processing Haynesville Shale emission inventory for inclusion in 2012 ozone modeling

December 2009: Continued development of 2012 emission inventory

January 2010: Continued development of 2012 emission inventory

C. Major activities remaining to complete the task:

4.2 Control Strategy Assessment

January 2010: Performed CAMx sensitivity test assessing contribution of 5-county area source emissions to 2012 ozone

D. Estimated completion date: March 2010

E. Comments:

Task 5: Ozone Modeling for 2005

A. Percent (%) completed: 100%

B. Activities conducted to date:

5.1 2005 seasonal ozone modeling

October 2008: Tested effect of using Grell cumulus parameterization in MM5 on improving CAMx ozone simulation at CAMS 19 in May 2005

October 2008: Began integration of Environment Canada dry deposition algorithm into CAMx

November 2008: Began comparison of CAMx biogenic HRVOCs during May-June 2005 episode with measured CAMS 19 HRVOC data

November 2008: Continued integration of Environment Canada dry deposition algorithm into CAMx

December 2008: Completed integration of Environment Canada dry deposition algorithm into CAMx and performed test simulations

December 2008: Evaluated CAMx biogenic VOCs at CAMS 19 using RAD HRVOC observations made at CAMS 19 under Task 3.

January 2009: Performed high-resolution CAMx run using nested 1 km grid covering large emissions sources near CAMS 19

January 2009: Performed plume-in-grid model sensitivity tests using 1 km grid

January 2009: Developed method for integrating satellite leaf area index data into Environment Canada dry deposition scheme

January 2009: Processed satellite leaf area index data for use with Environment Canada dry deposition scheme and performed test with CAMx

February 2009: Analysis of plume-in-grid model sensitivity tests using 1 km grid

February 2009: Analysis of Environment Canada dry deposition scheme CAMx results

March 2009: Completed analysis of plume-in-grid model sensitivity tests using 1 km grid.

March 2009: CAMx sensitivity testing to MM5 cumulus convection parameterization and surface wind nudging over entire episode.

April 2009: Analysis of Environment Canada dry deposition scheme CAMx results

April 2009: Completed analysis of CAMx sensitivity testing to MM5 cumulus convection parameterization and surface wind nudging over entire episode

April 2009: Evaluation of new MM5 simulation against surface meteorological data and precipitation measurements

April 2009: Began processing new boundary conditions for CAMx 36 km grid

May 2009: Performed CAMx sensitivity tests aimed at improving representation of vertical mixing

June 2009: Continued CAMx sensitivity tests aimed at improving representation of vertical mixing

July 2009: Completed CAMx sensitivity tests aimed at improving representation of vertical mixing

July 2009: Completed processing of new boundary conditions for CAMx 36 km grid

July 2009: CAMx sensitivity testing of new boundary conditions

July 2009: Began Baseline 2005 CAMx simulation

August 2009: Completed Baseline 2005 CAMx simulation

August 2009: Performed source apportionment run for emission inventory analysis

November 2009: Began CAMx modeling of 2012

December 2009: Continued CAMx modeling of 2012

December 2009: Began modeling 2012 ozone model sensitivity to natural gas development in the Haynesville Shale

January 2010: Continued CAMx modeling of 2012

January 2010: Continued modeling 2012 ozone model sensitivity to natural gas development in the Haynesville

January 2010: Developed new source region map for CAMx ozone transport analysis

C. Major activities remaining to complete the task:

Seasonal Ozone Modeling

D. Estimated completion date: March 2010

E. Comments:

Task 6: Public Education/Outreach

A. Percent (%) completed: 83%

B. Activities conducted to date:

- Maintained E-Mail Network for notification of local governments, industries and utilities of Ozone Action Days.

- Maintenance and updates to the NETAC website, including notices of Ozone Action Days, meetings and events, and completed technical studies and reports pertaining to air quality in East Texas.
- July 2008: Sent press release regarding the first Ozone Action Day for 2008 and related information.
- August 2008: Aired Air Quality public service announcement (PSA) on local NBC affiliate during Olympic coverage.
- August 2008: Sent press release announcing public demonstration of Xtreme Energy anti-idling technology at Gladewater Police Department.
- September 2008: Sent press release announcing TCEQ Clean School bus grant funding program.
- September 2008: Interview with CBS 19 regarding TCEQ Clean School bus grant funding program.
- November 2008: Purchase from Walraven of 45,000 schoolbook covers for the 2009-2010 school year to be distributed to Independent School Districts in the NETAC region
- December 2008: Phone Interview with Longview News Journal reporter Wes Ferguson over current state of air quality in Northeast Texas.
- March 2009: Worked with East Texas Radio Group to develop 2009.
- April 2009: ETCOG Executive Committee approved 2009 Ozone Awareness PSA's for local radio.
- May 2009: Began airing radio PSAs on local radio stations.
- May 2009: Began airing TV PSAs on local TV stations.
- June 2009: Continued airing radio and TV PSAs on local media outlets
- July 2009: Continued airing radio and TV PSAs on local media outlets
- August 2009: Continued airing radio and TV PSAs on local media outlets
- September 2009: Continued airing radio and TV PSAs on local media outlets
- November 2009: Purchase from Walraven of 75,000 schoolbook covers for the 2010-2011 school year to be distributed to Independent School Districts in the NETAC region.

C. Major activities remaining to complete the task:

D. Estimated completion date: September 2009

E. Comments:

Task 7: Contract Administration and Policy Analysis

A. Percent (%) completed: 95%

B. Activities conducted to date:

- Coordination of the FY 2008-2009 Contract #582-8-86229 with TCEQ.
- Coordination of the FY 2008-2009 Consulting Services Contract #582-8-86229-ENV with ENVIRON.
- Staff support to NETAC Organization.
- Preparation of Financial Status Reports (FSR) for TCEQ and internal budget reports

- Prepared and submitted monthly progress report to TCEQ
- March 2008: Organized and participated in the NETAC Technical Advisory Committee conference call
- March 2008: Responded to media requests for information regarding EPA's new 2008 Ozone Standard
- March 2008 - Gave presentation over regional air quality planning efforts to Leadership Longview class.
- April 2008: Began organizing NETAC Ozone Season Awareness Luncheon
- April/May 2008 - Attended TCEQ Environmental Trade Fair
- May 2008: Organized and participated in the NETAC Technical Advisory Committee meeting
- May 2008: Organized and participated in the NETAC Ozone Season Awareness Event
- May 2008: Organized and participated in the NETAC Policy Committee meeting
- July/August 2008: Worked with local media contact at NBC affiliate to develop an air quality PSA for NETAC.
- August 2008: Attended Xtreme Power demonstration of anti-idling technology at Gladewater Police Department
- August 2008: Aired PSA on NBC affiliate during Olympic coverage.
- November 2008: Organized and participated in the NETAC Technical Advisory Committee meeting
- November 2008: Organized and participated in the NETAC Policy Committee meeting
- December 2008: Organized and participated in the NETAC Technical Advisory Teleconference
- December 2008: Attended Texas NNAs meeting in Austin.
- December 2008: Viewed TCEQ Commissioners meeting
- January-February 2009: Developed FY2010-2011 White Paper
- February 2009: Organized and participated in the NETAC Technical Advisory Teleconference
- March 2009: Requested contract amendments #1.
- April 2009: Organized and participated in the NETAC Technical Advisory Committee meeting
- April 2009: Organized and participated in the NETAC Ozone Season Awareness Event
- April 2009: Organized and participated in the NETAC Policy Committee meeting
- May 2009: Attended TCEQ Environmental Trade Fair in Austin.
- May 2009: Organized and participated in NETAC Technical Advisory Committee conference call
- August 2009: Began coordination for September mobile monitoring project with ENVIRON, City of Henderson and UT-Austin
- September 2009: Organized and participated in NETAC Technical Advisory Teleconference
- October 2009: Organized and participated in NETAC Technical Advisory meeting
- October 2009: Organized and participated in NETAC Policy Committee meeting
- October 2009: Attend NNA areas meeting in Austin, TX
- December 2009 and January 2010: Worked with Rawson Energy Services to coordinate workshop held in Longview for gas compressor engine operators
- January 2010: Review and researched EPA proposed revision to ozone standard and revised NOx standard

- February 2010: Organize and participated in NETAC Technical Advisory Teleconference

C. Major activities remaining to complete the task:

D. Estimated completion date: March 2010

E. Comments:

Task 8: Contingency

A. Percent (%) completed: 0%

B. Activities conducted to date:

C. Major activities remaining to complete the task:

D. Estimated completion date: March 2010

E. Comments: