



## - M E M O R A N D U M -

**Date:** September 24, 2010  
**To:** City of Fort Worth  
**From:** Eastern Research Group, Inc. (ERG)  
**Re:** Natural Gas Air Quality Study Biweekly Update #1: Activity Conducted from Project Inception through August 29

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**Activity Summary:** On August 3, the City of Fort Worth sent ERG the Notice to Proceed with conducting the Natural Gas Air Quality Study. In order to meet the goal of beginning certain field activities in the month of August, we immediately began developing the various written plans that would direct all future sampling and monitoring activities. As part of this effort, we collected background data on numerous topics, such as the locations of gas wells and compressor stations and natural gas and condensate production data. Additional details on the two main planning activities follow.

**Ambient Air Monitoring:** As soon as ERG received its contract from the City of Fort Worth, we began developing the two main planning documents for the study's ambient air monitoring activities, which will be conducted to take measurements of outdoor air pollution levels. ERG prepared and submitted the following documents:

- Draft Ambient Air Monitoring Quality Assurance Project Plan (August 17, 2010)
- Draft Ambient Air Monitoring Plan (August 19, 2010)
- Final Ambient Air Monitoring Quality Assurance Project Plan (August 19, 2010)

These plans document key features of the ambient air monitoring program, such as: where sampling will occur, what pollutants will be measured, how often will samples be collected, what laboratory methods will be used to analyze the samples, and what parties will be responsible for these efforts.

Based on specifications in these written plans, ERG launched several activities to initiate the ambient air monitoring program. On August 25 and 26, ERG staff conducted an on-site inspection of candidate monitoring sites to ensure they would be adequate for monitor placement. This evaluation took into account physical location factors (e.g., building obstructions, access to electricity, and proximity to known emission sources) and security and safety factors (e.g., would the equipment be secure, would the site be safe to access, and would the project team have access on weekends). Based on this evaluation, ERG selected six ambient air monitoring stations for placement of air quality monitors. A seventh location will be added at a future date. With the monitoring stations selected and the plans submitted, ERG began packaging and shipping equipment to Fort Worth for installation.

**Point Source Emissions Testing:** ERG and its subcontractors began developing a written plan for this study's point source emissions testing, which will be conducted to take site-specific

measurements to characterize what pollutants are being released from wells (and other equipment) and how quickly these pollutants are being released. After collecting and reviewing extensive background information from the City of Fort Worth, the Texas Railroad Commission, and other parties, the ERG team prepared and submitted the following documents:

- Draft Point Source Test Plan (August 11, 2010)
- Draft Data Collection Forms (August 19, 2010)
- Point Source Testing Equipment List (August 19, 2010)
- Revised Draft Point Source Test Plan (August 19, 2010)

These plans outline important decisions about emissions testing, including the number of sources to be tested, what equipment will be used to take the emissions measurements, and what specific measurements are proposed.