

AQRP Monthly Technical Report

PROJECT TITLE	The Influence of Alkyl Nitrates from Anthropogenic and Biogenic Precursors on Regional Air Quality in Eastern Texas	PROJECT #	16-019
PROJECT PARTICIPANTS	University of Texas at Austin (Drs. McDonald-Buller and Hildebrandt Ruiz) Ramboll Environ (Dr. Yarwood)	DATE SUBMITTED	3/8/2017
REPORTING PERIOD	From: 2/1/2017 To: 2/28/2017	REPORT #	5

A Financial Status Report (FSR) and Invoice will be submitted separately from each of the Project Participants reflecting charges for this Reporting Period. I understand that the FSR and Invoice are due to the AQRP by the 15th of the month following the reporting period shown above.

Detailed Accomplishments by Task

Task 1: Refinements to the CB6r4 Mechanism in CAMx

Two CAMx v.6.40 base case simulations were completed at the Texas Advanced Computing Center (TACC) at the University of Texas at Austin using the hybrid 1.5-dimensional (1.5-D) Volatility Basis Set (VBS) or Secondary Organic Aerosol Partitioning (SOAP) schemes. The team is evaluating and comparing their performance using surface observations for the DISCOVER-AQ time period. Updates to the chemical mechanism are on-going according to the areas of focus outlined in our previous report.

Task 2. Evaluating CB6r4 Updates in CAMx Modeling for DISCOVER-AQ
Not yet initiated.

Task 3. Project Reporting and Presentation
On-going per requirements.

Preliminary Analysis

On-going as described above.

Data Collected

Not yet initiated.

Identify Problems or Issues Encountered and Proposed Solutions or Adjustments

None.

Goals and Anticipated Issues for the Succeeding Reporting Period

Goals for the next reporting period include completing the evaluation of the base case CAMx simulations with the 1.5-D VBS and SOAP2 schemes and initiating sensitivity studies for Task 2 with chemical mechanism updates.

Detailed Analysis of the Progress of the Task Order to Date

The project is proceeding as planned.

Do you have any publications related to this project currently under development? If so, please provide a working title, and the journals you plan to submit to.

Yes No

Do you have any publications related to this project currently under review by a journal? If so, what is the working title and the journal name? Have you sent a copy of the article to your AQRP Project Manager and your TCEQ Liaison?

Yes No

Do you have any bibliographic publications related to this project that have been published? If so, please list the reference information. List all items for the lifetime of the project.

Yes No

Do you have any presentations related to this project currently under development? If so, please provide working title, and the conference you plan to present it (this does not include presentations for the AQRP Workshop).

Yes No

Do you have any presentations related to this project that have been published? If so, please list reference information. List all items for the lifetime of the project.

Yes No

Submitted to AQRP by

Elena McDonald-Buller