AQRP Monthly Technical Report

PROJECT TITLE	A Next Generation Modelling System for Estimating Texas Biogenic VOC Emissions	PROJECT #	16-011
PROJECT PARTICIPANTS	Ramboll Environ Alex Guenther	DATE SUBMITTED	12/08/2016
REPORTING PERIOD	**From:** November 1, 2016 **To:** November 30, 2016	REPORT #	2

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: Development and Application of a Transparent Approach for Estimating BVOC Emission Factor Distributions
Alex Guenther and Ramboll Environ held a project kickoff call on November 2, 2016 to coordinate efforts on Tasks 1-3. During November, the model framework for calculating BVOC emission factors was completed. The format of the input databases (emission measurements, specific leaf mass measurements, landcover data, and literature references) was defined and the measurement databases were populated with observations from the available literature. This prototype framework was developed using Microsoft Access.

Task 2: Emission Factor Development
Task 2 has not yet been initiated.

Task 3: Development of MEGAN3
The MEGAN emission category approach was updated by adding additional compounds and by revising the emission categorization. The scheme was integrated into the emission factor processor developed for Task 1.

Task 4: MEGAN Evaluation and Sensitivity Study
Task 4 has not yet been initiated.

Task 5: Project Management and Reporting
This task is ongoing.

Preliminary Analysis
None.

Data Collected
None.

Identify Problems or Issues Encountered and Proposed Solutions or Adjustments
None.

Goals and Anticipated Issues for the Succeeding Reporting Period
Development of the emission factor database will continue during December. The conversion of the prototype database to an open source code will begin during December.

Detailed Analysis of the Progress of the Task Order to Date
None.

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   __x_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   __x_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   __x_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   __x_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   __x_No

Submitted to AQRP by   Sue Kemball-Cook

Principal Investigator   Sue Kemball-Cook