

AQRP Monthly Technical Report

PROJECT TITLE	<i>Evaluating the Ability of Statistical and Photochemical Models to Capture the Impacts of Biomass Burning Smoke on Urban Air Quality in Texas</i>	PROJECT #	22-003
PROJECT PARTICIPANTS	Matthew Alvarado, Jen Hegarty, Rick Pernak	DATE SUBMITTED	11-09-2022
REPORTING PERIOD	From: October 1, 2022 To: October 31, 2022	REPORT #	3

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 for reporting period

Held project kickoff. Began STILT footprint modeling. Began gathering HMS smoke and fire data and translating it into GAMM predictors.

Preliminary Analysis

None to date.

Data Collected

None to date.

Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

None to date.

Goals and Anticipated Issues for the Succeeding Reporting Period

The following project tasks are expected to continue in the next reporting period.

- Compile meteorological and fire predictors into single dataset (Task 1).
- Gather and evaluate CAMx output from TCEQ (Task 2).

Detailed Analysis of the Progress of the Task Order to Date

Completed initial drafts of Work Plan and QAPP. Held project kickoff.

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 (ie: publications that cite the project) 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

Have any personnel changes occurred that were not listed in the original proposal? If so, please include a detailed description of the personnel change(s) below.

Yes No

Are any delays expected in the progress of the research? If so, please include a detailed description of the potential delay below.

Yes No

Describe any possible concerns/issues (technical or non-technical) that AQRP should be made aware of.

None

Are you anticipating using all the available funds allocated to this project by the end date? If not, why and approximately what is the amount to be returned?

Yes No

Submitted to AQRP by

Matthew J. Alvarado