AQRP Monthly Technical Report

PROJECT TITLE	Texas Urban Vegetation BVOC Emission Source Inventory	PROJECT #	20-007
PROJECT PARTICIPANTS	Ramboll Alex Guenther Wildland Solutions Chris Geron	DATE SUBMITTED	12/10/2020
REPORTING PERIOD	**From:** November 1, 2020 **To:** November 30, 2020	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 for reporting period

Task 1: High Resolution (8-day, 10-m) LAI and Vegetation Cover Fraction for Urban Texas
No work was performed on Task 1 during November 2020.

Task 2. BVOC Emitting Tree Distributions for Three Major Texas Urban Areas
Completed the development and application of high-resolution imagery object-based classification approach for quantifying urban vegetation cover fraction distributions including tree types. Conducted assessments by comparison to USFS statistics, urban street tree inventories, and iTree surveys.

Task 3. MEGAN and BEIS input data, processors and results
Reported issues found in 2019 MODIS Leaf Area Index (LAI) data to TCEQ.

Preliminary Analysis
None.

Data Collected
None.

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

Goals and Anticipated Issues for the Succeeding Reporting Period
Continue developing the relative abundance of high BVOC-emitting trees and other vegetation cover types for three Texas urban areas: San Antonio, Austin and Houston.

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   ☒ 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   Tejas Shah

Principal Investigator   Tejas Shah