

# AQRP Monthly Technical Report

<b>PROJECT TITLE</b>	<b>Dallas Field Study (DFS); Ozone Precursors, Local Sources and Remote Transport Including Biomass Burning</b>	<b>PROJECT #</b>	22-010
<b>PROJECT PARTICIPANTS</b>	<b>Dr. Ed Fortner PI</b>	<b>DATE SUBMITTED</b>	02/10/2023
<b>REPORTING PERIOD</b>	<b>From:</b> 1/01/2023 <b>To:</b> 1/31/2023	<b>REPORT #</b>	6

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 15<sup>th</sup> of the month following the reporting period shown above.

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## Detailed Accomplishments by Task for reporting period

### *Task 2: Base Site Selection:*

The Fort Worth Northwest Site owned by TCEQ at the Meachum field airport continues to be the primary choice for the base site location. There continue to be two issues which need to meet a positive resolution prior to the arrival of the Aerodyne Mobile Laboratory. The first issue is the execution of a legal agreement with Meachum Field for site access. Vince Torres and RoseAnna Goewey (TX AQRP) along with Ed Fortner are continuing dialogue with the airport operations manager Dakota Shaw at Fort Worth Meachum Field regarding the site access agreement and the most recent information as of Feb. 9 2023 is that a draft of this legal agreement should be completed during the week of Feb. 13-17. The second issue of concern is the completion of electrical upgrade work at the Meachum Field site which has begun but has not been finished yet. The electrical upgrade work is nearing completion, a switchover to the new electrical lines is due to occur on 16 Feb. and the new lines performance will be inspected at that time.

### *Task 3: Campaign Planning:*

The field staffing plan has been completed, all positions are filled, and date commitments have been made. The measurement intensive dates are being planned for Apr 3 – 23. Some personnel will be on-site for the entire campaign while others will be split into first and second half crews. The AML and key instrument availability has been coordinated for the time period of mid-March - April with May considered to be an alternate measurement month if needed. A two-week integration plan of the AML at Aerodyne is scheduled to occur during the last two weeks of March. The necessary ordering of calibration equipment has occurred to ensure its availability for the measurement campaign.

## **Preliminary Analysis**

N/A

## Data Collected

N/A

## Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

A concern is whether the site agreement and the electrical upgrade will both be completed prior to the intensive which will occur in April. As stated above work on both matters is occurring and it is still the primary plan to have the Northwest (Meachum Airport) field site used as the base for the AML during the intensive. If this site cannot be made ready, then backup solutions being considered are a different TCEQ measurement site in the Dallas – Fort Worth (DFW) area or Recreational Vehicle (RV) parks in the DFW area. The preference for co-measuring with both TCEQ and project 22-006 has motivated the site selection to be a TCEQ measuring location, however, the AML has used RV parks in past measurement intensives, and it would be possible to do so for this campaign.

## Goals and Anticipated Issues for the Succeeding Reporting Period

Executing a site agreement and completing the electrical upgrade work on the Northwest site are priorities for the month of February. These issues will be a point of focus for both the 22-006 and the 22-010 projects.

## Detailed Analysis of the Progress of the Task Order to Date

Regarding progress of the tasks relative to the task execution timeline detailed in the Statement of Work Task 1 (Work Plan including QAPP) has been completed and Task 3 (Campaign Planning) has progressed smoothly with respect to staffing and instrument readiness. Task 2 (Base Site Selection) as detailed above does still need to progress with respect to the Meachum Field site and a secondary plan utilizing an RV park as a base site is being investigated currently although due to a lack of any other complementary measurements it is not the primary base site location strategy.

**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.**

No new concerns or issues.

**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

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Submitted to AQRP by

Dr. Ed Fortner, PI