

Matagorda Bay Mitigation Trust – Progress Report

Project Name: A research and monitoring program to mitigate the impact of harmful algal blooms on the Matagorda Bay and San Antonio Bay ecosystems

P.I.: Michael Wetz, Texas A&M University-Corpus Christi

Contract No.: 0014

Reporting Period: 3/1/2021-5/31/2021

Task 1: Real-time, high frequency detection of HABs and other phytoplankton.

Status of the task during this reporting period: not started in progress completed

- Describe major accomplishments for this reporting period.
 - Wetz/TAMUCC signed an MOU to allow for deployment of the Imaging FlowCytobot at the Texas Parks and Wildlife Department's Port O'Connor facility. Wetz has been working with the site supervisor to address logistical issues.
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Nothing to report.
- Were there any problems or obstacles encountered during this reporting period (e.g., delays, remedial action taken, schedule revision). Yes No If yes, please explain:
 - The MOU took some time to complete, which delayed progress on this task. In addition, there are issues with the power supply at the site that Wetz and site supervisor are working to resolve before ordering the instrument.
- Briefly describe plans for the next reporting period.
 - It is anticipated that the power issues will be resolved at the site, and the instrument will be ordered. We will also begin to develop image libraries to calibrate the instrument.

Task 2: Water sampling program for HABs and relevant environmental conditions.

Status of the task during this reporting period: not started in progress completed

- Describe major accomplishments for this reporting period.
 - Water sampling commenced at 6 sites in April 2021 as per the original plan. To date, five sampling events have been conducted.
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Nothing to report, as no significant HAB events have been noted to date.
- Were there any problems or obstacles encountered during this reporting period (e.g., delays, remedial action taken, schedule revision). Yes No If yes, please explain:
- Briefly describe plans for the next reporting period.
 - Weekly sampling will continue.

Task 3: Stakeholder meetings.

Status of the task during this reporting period: not started in progress completed

- Describe major accomplishments for this reporting period.
 - Nothing to report this quarter.
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Nothing to report this quarter.
- Were there any problems or obstacles encountered during this reporting period (e.g., delays, remedial action taken, schedule revision). Yes No If yes, please explain:
- Briefly describe plans for the next reporting period.
 - There are no plans for this task yet, as the project has not reached maturity.