

## 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

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**Contract No.:** 0014

**Reporting Period:** 6/1/2022-8/31/2022

### 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.
  - A draft instrument clean/maintenance SOP was completed.
  - Additional “training” of the FlowCytobot to recognize algal cells was conducted using water samples collected as part of Task 2.
  - Cultures of algal taxa known to be problematic in the region were ordered to further “train” the instrument.
  - Data transmission/communication equipment for the instrument was purchased and is currently undergoing testing in the lab to prepare for field deployment.
- 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:
- Briefly describe plans for the next reporting period.
  - The research team will continue to calibrate the instrument with samples collected during the fall. In addition, the communications box will be assembled and fully tested for field deployment. The team will also finalize field deployment site logistics, specifically working with TPWD to shore up an attachment site on their dock.

### 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 took place weekly at 6 sites, for a total of 11 sampling events during the quarter.
- 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: Do to a COVID

outbreak in the lab in July, we missed two scheduled sampling events because we were severely understaffed.

- 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.
- 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:
- Briefly describe plans for the next reporting period.
  - There are no plans for this task, but Wetz will give presentations as requested by stakeholders in the region.