

## 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:** 3/1/2024-5/31/2024

### 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.
  - Diagnosed and replaced damaged and failed components: valve, syringe and motor coupling.
  - Restore new SSD Linux image and software updates.
  - Continued development of classifier with updated iteration testing.
- List the deliverable(s)/milestone(s) completed during this reporting period.
  - Development and successful testing of interactive sampling protocol for reduced sampling frequency and decreased cellular signal transmission requirements.
- 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:
  - Component failures causing incorrect instrument operation that were not immediately evident.
- Briefly describe plans for the next reporting period.
  - Redeployment of IFCB with new pump and new operating protocol

### 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.
  - All previously collected samples have been analyzed.
- 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.
  - Continue to synthesize water quality data collected during the two years of sampling.

### 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.
  - Meet with stakeholders as opportunities arise.