

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: 6/1/2024-8/31/2024

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.
 - Temporary modifications to shed structure following storm damage to enable deployment
 - Deployment at Port O'Connor 7/31-8/6
 - Replaced syringe
 - Order and replaced: servo controller and mounting plate, wire harness
- 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:
 - Component damage and failures
 - Damage to shed structure at deployment location from Tropical Storm Alberto and Hurricane Beryl
- Briefly describe plans for the next reporting period.
 - Redeployment of IFCB and construction of new housing structure.
 - Synthesize existing data and complete final report.

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.

- Complete final report.

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.
 - Present project findings at harmful algal bloom event response workshop at Texas State Aquarium in October.
 - Share findings with stakeholders as requested.
 - Use project findings to develop sampling and mitigation recommendations for inclusion in final report.