

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: 3/1/2022-5/31/2022

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.
 - FlowCytobot training was held in mid-March.
 - Water samples collected as part of Task 2 are being used to “train” (calibrate) the FlowCytobot to recognize algal taxa from the deployment site.
- 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 continue to calibrate the instrument with samples collected during the summertime. The team will also work on deployment site logistics such as data transmission and instrument security, and will develop an instrument cleaning and maintenance SOP.

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 12 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:
- 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.