Matagorda Bay Mitigation Trust – Progress Report

Project Name: A research and monitoring program to mitigate the impact of harmful algal blooms on

P.I.: Michae Contract No	la Bay and San Antonio Bay ecosystems I Wetz, Texas A&M University-Corpus Christi o.: 0014 reriod: 9/1/2022-11/30/2022
Task 1: Rea	l-time, high frequency detection of HABs and other phytoplankton.
Status of the	task during this reporting period:
• Descr	ribe major accomplishments for this reporting period.
0	Additional "training" of the FlowCytobot to recognize algal cells was conducted using water samples collected as part of Task 2.
0	Cultures of algal taxa known to be problematic in the region were received and are being used to "train" the instrument to recognize those species.
0	Testing of data transmission/communication equipment commenced.
0	Deployment site logistics were finalized.
• List t	he deliverable(s)/milestone(s) completed during this reporting period.
0	Nothing to report.
action unusa	there any problems or obstacles encountered during this reporting period (e.g., delays, remedial taken, schedule revision). X Yes No If yes, please explain: The instrument was able for ~1.5 months due to a part going bad that turned out to be a manufacturer defect. A spare was received and installed to get the instrument back in working order.
• Brief	ly describe plans for the next reporting period.
0	Assuming that there are no additional parts failures, our plan is to put a small storage shed in place at the deployment site in January 2023 that will house instrument components and deploy the instrument by the end of February 2023.
Task 2: Wat	ter sampling program for HABs and relevant environmental conditions.
Status of the	task during this reporting period: \square not started \mathbf{X} in progress \square completed
• Descr	ribe major accomplishments for this reporting period.
0	Water sampling took place weekly at 6 sites, for a total of 12 sampling events during the quarter.
• List t	he deliverable(s)/milestone(s) completed during this reporting period.
0	On 9/22/22, we reported the presence of <i>Karenia brevis</i> ("red tide") at the Port O'Connor site to Texas Parks & Wildlife Department so that they could follow up.
	there any problems or obstacles encountered during this reporting period (e.g., delays, remedial taken, schedule revision). \square Yes \mathbf{X} 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: \square not started X in progress \square 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 X 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. 		