TEXAS A&M UNIVERSITY
CORPUS CHRISTI

HARTE RESEARCH INSTITUTE FOR GULF OF MEXICO STUDIES
6300 OCEAN DRIVE, UNIT 5869
CORPUS CHRISTI, TEXAS 78412-5869
O 361.825.2000 • F 361.825.2050

June 30, 2022

Steven J. Raabe, P.E.
Trustee, Matagorda Bay Mitigation Trust
PO Box 1269
Poth, TX 78147-1269

RE: Quarterly Progress Report for the period 3/1/2021 – 6/30/2022.

Dear Mr. Raabe,

Please find enclosed the following deliverable: Quarterly Progress Report for the project "Long-term Trends in Lavaca-Colorado and Guadalupe Estuaries" Contract No. 011.

Sincerely,

Paul A. Montagna, Ph.D.
Chair, Hydroecology, Harte Research Institute
Professor, Physical and Environmental Science Department
Regents Professor, Texas A&M University System
Texas A&M University-Corpus Christi
6300 Ocean Drive, Unit 5869
Corpus Christi, TX 78412
Phone: 361-825-2040
Email: Paul.Montagna@tamucc.edu

I. TITLE, CONTRACT INFORMATION, AND CONTACTS:

Long-term Trends in Lavaca-Colorado and Guadalupe Estuaries

Contract 011

Performing Party Representative:

Dr. Paul A. Montagna
Harte Research Institute for Gulf of Mexico Studies
Texas A&M University-Corpus Christi
6300 Ocean Drive, Unit 5869
Corpus Christi, TX 78412-5869
Telephone: 361-825-2040
Email: Paul.Montagna@tamucc.edu

Contract Period: 01 March 2021 – 31 December 2022

Reporting Period: 01 March to 30 June 2022
Date of submission: 30 June 2022

SUBMITTED TO:

Steven J. Raabe, P.E.
Trustee, Matagorda Bay Mitigation Trust
PO Box 1269
Poth, TX 78147-1269
Via Email to: Trustee@mbmTrust.com

II. DESCRIPTION OF TASKS:

There are four tasks for this project:

Task 1): Analyze archived benthic samples.

Task 2): Synthesize existing monitoring data from the Texas Parks and Wildlife Department, Coastal Fisheries Program (TPWD).

Task 3): Synthesize existing water and sediment quality data obtained from Freese and Nichols, Inc. monitoring of the Formosa Plastics Corporation discharge site into Lavaca Bay.

Task 4): Data Management, Reporting, and Outreach Engagement. Quarterly Progress Reports: within 10 days of the end of each annual quarter: Q1 = April 10, Q2 = July 10, Q3 = October 10, and Q4 = January 10.

Final Report = December 31, 2022

III. STATUS OF TASKS:

Task 1): In progress. Completed 114 samples this quarter.

Task 2): Complete. Analyses reported in: Harris, E.K. 2022. Influence Of Discharge On Long-Term Dynamics Of Abiotic and Biotic Resources In Lavaca Bay, Texas. Masters Thesis, Environmental Science Program, Department of Physical and Environmental Science, Texas A&M University-Corpus Christi, Corpus Christi, Texas, 199 pp.

Task 3): Complete. Analyses reported in: Harris, E.K. 2022. Influence Of Discharge On Long-Term Dynamics Of Abiotic and Biotic Resources In Lavaca Bay, Texas. Masters Thesis, Environmental Science Program, Department of Physical and Environmental Science, Texas A&M University-Corpus Christi, Corpus Christi, Texas, 199 pp.

The data has been submitted to an archive and can be referenced as follows:

Montagna, P.A., E. Harris, A. Douglas, L. Vitale, D. Buzan. 2022. Formosa Plastics Discharge Monitoring in Lavaca Bay, Texas, USA. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University–Corpus Christi. https://doi.org/10.7266/DCNHQD59

Task 4): In progress. Fourth quarterly report submitted.

Performed two presentations related to the project:

Montagna, P.A., E.K. Harris, A. Douglas, L. Vitale, D. Buzan. Influence Of the Formosa Discharge on Long-Term Dynamics Of Abiotic And Biotic Resources In Lavaca Bay, Texas. Lavaca Bay Foundation, Port Lavaca, Texas, 16 June 2022, 25 participants.

Montagna, P.A. Long-Term Benthic Data in Three Basins Can be Used for Adaptive Management of Inflow Standards. Jointly hosted by the Harte Research Institute and Texas Water Development Board, Corpus Christi, TX (virtual), 27 May 2022, 74 participants.

IV. PLAN FOR NEXT QUARTER:

Task 1): Continue to analyze archived benthic samples.

Task 2): Complete.

Task 3): Complete.

Task 4): Submit a quarterly reporting.

V. PROBLEMS ENCOUNTERED/CORRECTIVE ACTIONS:

None.

VI. ADHERENCE TO PROJECT TIMELINE:

A. Explanation of delays (if any): No delays.

B. Anticipated delays: None expected.