

Monthly Progress Report

Reporting Period: November 2022

Project Information

Project Name	Port Lavaca Living Shoreline Breakwater
City Resolution	R-050922-5
CDBG-MIT Contract	20-087-001-D226
City PM	Jody Weaver
Mott MacDonald PM	Josh Carter
Mott MacDonald Project Number	507107066
Date	12/05/2022

Project Milestones

Milestone Description	Date (Actual=A)	Notes
Task 1: Project Kickoff		
Project Kickoff Meeting	6/8/2022 (A)	
Memorandum of Project Understanding	6/21/2022 (A)	
Task 2: Data Collection and Analysis		
Collect available coastal processes data	7/29/2022 (A)	
Collect USACE historical survey data		Not yet started
Collect new bathymetric and topographic data	8/3/2022 (A)	New data collection complete
Collect new geotechnical data	11/9/2022	Not Started; wait for template design
Collect new cultural resources data	11/9/2022	Not Started; wait for template design
Collect new habitat data	11/9/2022	Not Started; wait for template design
Technical memorandum on data collection	11/18/2022	In progress
Task 3: Coastal Analysis, Alts Development, Alt Eval		
Coastal Engineering Analysis	11/4/2022 (A)	Via presentation 11/4/2022
Alternatives Development	10/12/2022	In progress
Meeting on Alternatives Development	11/4/2022 (A)	Completed in person on 11/4/2022
Alternatives Evaluation	12/21/2022	Likely delayed to new year mid January
Meeting on Alternatives Evaluation	12/21/2022	Likely delayed to new year mid January
Tech Memo on CEA and Alts Analysis	1/13/2023	
Task 4: Preliminary Design		
Prelim design: 30% plans, cost, report	1/25/2023	
Task 5: Regulatory Compliance		
Prepare application and permit plans	2/8/2023	
USACE Regulatory Permitting		
USACE pre-application meeting	3/8/2023	
Submit USACE Permit Application	3/22/2023	
Issuance of USACE Permit	11/1/2023	

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Milestone Description	Date (Actual=A)	Notes
TXGLO Coastal Lease		
Submit coastal lease application to GLO	3/22/2023	
Task 6: Engineering Design		
Submit 70% Design	3/22/2023	
Submit 95% Design	5/31/2023	
Develop for proposal package	11/23/2023	
Task 7: Construction Proposal Solicitation Assistance		
Out to bid	12/27/2023	
Issue Construction NTP	4/3/2024	

Project Budget

Budget Summary	% Complete by Budget	notes
Task 1: Develop Project Understanding	100%	
Task 2: Data Collection and Analysis	78% Mott / 11% by sub	Only bathy survey has been conducted to date.
Task 3: Coastal Analysis, Alts Development, Alts Eval	60%	Work ongoing
Task 4: Preliminary Design	1%	Initiate coordination on geotechnical investigation
Task 5: Regulatory Compliance	1%	Initiation coordination on habitat and CR surveys
Task 6: Final Design	0%	
Task 7: Bidding Phase Services	0%	
Task 8: Engineering Services during Construction	0%	
Task 9: Project Management	8%	
Overall	17%	

Activities Performed This Period

Activity Summary

Task 1: Project Kickoff

- Task Completed

Task 2: Existing and New Data Collection

- Bathy and magnetometer survey completed 8/3/2022; deliverable received 8/9/2022. Survey deliverable submitted
- Ongoing: USACE coordination on historical dredging data of Port Lavaca Channel and other information on Matagorda Channel deepening. USACE slow to respond. Note this is not impacting project schedule
- Other new data collection – geotechnical, habitat surveys, cultural resources surveys - waiting development of draft project template to direct location of that data collection

Activity Summary

Task 3: Coastal Analysis, Alts Development, Alts Evaluation

- Coastal data processing and analysis is complete
- New bathy data incorporated into larger scale bathymetric surface of Lavaca and Matagorda Bay is complete. This is basis of modeling, analysis and design to progress through next tasks
- Coastal modeling of site ongoing
 - Storm surge model is set up for existing conditions; runs complete for existing conditions and base conditions.
 - Local wave model is set up for existing conditions; runs for existing conditions complete.
 - Modeling of flushing of harbor for existing and base alternative complete.
- Alternatives development
 - Completed development of alternatives for evaluation. Layout nearly complete; need confirmation on width of channel from city marina out to Port Lavaca Channel
 - Initiated modeling of proposed alternatives; all are ongoing:
 - Wave transmission through artificial reefs
 - Typical wave conditions
 - Storm wave conditions
 - Flushing of alternatives
- Reporting
 - Conducted meeting on CEA and alternatives development with the City and KSBR on 11/4/2022
 - Initiated drafting of CEA and Alternatives Development memo. Memo development ongoing

Task 4: Preliminary Design

- Initiated planning on geotechnical investigation

Task 5: Regulatory Compliance

- Initiated planning on habitat survey layout and scoping with sub

Task 6: Final Design

- Not yet started

Task 7: Bidding Phase Services

- Not yet started

Task 8: Construction Proposal Solicitation Assistance

- Not yet started

Task 9: Project Management

- Ongoing internal project management e.g. scheduling, invoicing, resourcing, etc.
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Anticipated Effort Next Period

- Conduct evaluation of project alternatives
- Prepare presentation on results of alternatives evaluation
- Provide recommendations on preferred alternative; will need City to provide their opinion to finalize selection of preferred alternative. Will meet with City to present results and make selection
- Develop scope for habitat, cultural resources, and geotechnical investigations (pending agreement on project footprint)
- Continue to coordinate with USACE for available data

Outstanding Items

- USACE has not responded to coordination requests. Mott will continue outreach. Note this is not slowing project progress
- Get confirmation on width of existing navigation channel from City Marina to Port Lavaca Channel to enable definition of location of project footprint.

Please do not hesitate to contact me if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Josh Carter", with a stylized flourish at the end.

Josh Carter, PE, D. CE

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