

TOWN OF PALM BEACH

Information for Town Council Meeting on: June 10, 2020

TO: Mayor and Town Council

VIA: Kirk W. Blouin, Town Manager

FROM: H. Paul Brazil, P.E., Director of Public Works

RE: Approve a Purchase Order for 2020 Annual Physical Surveys
Resolution No. 41-2020

DATE: May 21, 2020

STAFF RECOMMENDATION

Town staff recommends that Town Council approve Resolution No. 41-2020 approving a purchase order to Applied Technology & Management, Inc. (ATM), in the amount of \$149,648 and establishing a project budget of \$160,000 to complete the Town-wide Annual Physical Surveys.

GENERAL INFORMATION

Physical monitoring of the Town's beaches is essential for coastal management. Physical monitoring provides engineers and regulators the necessary information to track the performance of previously constructed coastal projects and to design permissible storm protection and erosion control projects in the future.

The physical monitoring procedure includes surveying both above the water (topographic), and below the water (bathymetric). Each year the Town performs surveys starting from a given point on land with a known horizontal position and vertical elevation established by the Florida Department of Environmental Protection (FDEP). Horizontal and vertical data is collected from this given point, perpendicular to shore, and out to a specific depth offshore. Using this data, a cross section of each beach profile can be drawn which follows the movement of sand within the profile.

For the past twelve (12) annual events, the Town has tasked an engineering consultant to provide a Town-wide analysis of physical monitoring surveys, comparing the newly collected data with the previously collected data. The analysis is compiled into a report that is provided to the Town. This "Sediment Budget" report assists the Town with keeping track of the sand currently within the coastal system of the Town limits.

During the Beach Management Agreement (BMA) process, FDEP and other BMA participants noticed the benefits of the “Sediment Budget” report. The monitoring program of the BMA shoreline was developed using the “Sediment Budget” report as a guide. This BMA monitoring program now includes the tasks previously performed for the “Sediment Budget” report and has slightly expanded the scope to meet the regional approach of the BMA.

The scope of work prepared by both ATM and Terraquatics, Inc. is sufficient to complete the fieldwork and the data reporting to prepare the required BMA annual “Sediment Budget” report and the annual BMA analysis. The 2020 physical monitoring scope includes a presentation to both the Shore Protection Board in January 2021 and the annual BMA meeting, at a date to be determined in 2021 by FDEP.

FUNDING/FISCAL IMPACT

Town Council approved the FY20 Coastal Management Program Budget which includes sufficient funds for all related tasks within ATM’s May 18, 2020 Annual Beach Physical Monitoring Proposal.

PURCHASING REVIEW

This item has been reviewed by the Purchasing Division and approved as recommended.

TOWN ATTORNEY REVIEW

This proposed Resolution has been reviewed and approved by the Town Attorney for legal form and sufficiency.

Attachment

cc: Jane La Clainche, Director of Finance
Robert Weber, Coastal Program Manager
John C. Randolph, Town Attorney
Dean Mealy, Purchasing Manager