

**INDIAN RIVER COUNTY, FLORIDA  
BOARD MEMORANDUM**

**CONSENT**

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**TO:** Jason E. Brown, County Administrator

**THROUGH:** Richard B. Szpyrka, P.E. Public Works Director

**FROM:** Eric Charest, Natural Resources Manager

**SUBJECT:** **Sector 5 Beach and Dune Restoration Project (IRC1923) APTIM, Work Order No. 2018029-10, Year 2 Post-Construction Environmental Monitoring**

**DATE:** February 8, 2022

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**DESCRIPTION AND CONDITIONS**

On April 3, 2018, the Board approved a contract with APTIM Environmental & Infrastructure, LLC. (APTIM) for professional coastal engineering and biological support services related to the management and restoration of the Sector 5 (City of Vero Beach) beach project area. The Sector 5 project area is approximately a 3-mile section of shoreline that extends just north of Tracking Station Beach Park south to the Gables Oceanfront Condominiums and sustained damages from Hurricanes Matthew (2016) Irma (2017) and Dorian (2019). Construction of the large-scale beach and dune nourishment project was completed February 2020.

Regulatory permits issued for the beach restoration activities identify post-construction related monitoring to be performed on a set schedule for several years following completion of construction. These monitoring activities are evaluated to demonstrate compliance with permit conditions. In the case of the Sector 5 Beach and Dune Restoration project, year 2 post-construction monitoring requires the biological monitoring of the nearshore hardbottom resources adjacent to the project area, as well as weekly escarpment surveys. Year 2 post-construction sea turtle and shorebird nest monitoring is performed under the County's routine Habitat Conservation Plan (HCP) data collection and reporting activities.

The proposed Work Order No. 2018029-10, in the amount of \$99,010.41, provides professional services for permit required year 2 post-construction environmental monitoring including:

- Year 2 Post-Construction Biological Monitoring of Nearshore Hardbottom (**Task 1**)
- Year 2 Post-Construction Escarpment surveys (**Task 2**)

All subsequent annual post construction environmental monitoring of the Sector 5 Project area will be addressed through future work orders.

**FUNDING**

Funding for Year 2 Post-Construction Environmental Monitoring in the amount of \$99,010.41 is budgeted and available for the Sector 5 Beach Nourishment Project in the Beach Restoration Fund/Sector 5 Post-Construction Monitoring, Account No. 12814472-033490-15021.

| Account Name                          | Account No.           | Amount      |
|---------------------------------------|-----------------------|-------------|
| Sector 5 Post-Construction Monitoring | 12814472-033490-15021 | \$99,010.41 |

**RECOMMENDATION**

Staff recommends the BCC authorize Work Order No. 2018029-10 in the total lump sum amount of \$99,010.41. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018029-10.

**ATTACHMENTS**

APTIM WO# 2018029-10  
WO# 2018029-10 Agreement Execution

**APPROVED AGENDA ITEM FOR: February 15, 2022**