



## INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

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**Date:** January 30, 2018  
**To:** Jason E. Brown, County Administrator  
**From:** Vincent Burke, P.E., Director of Utility Services  
**Prepared By:** Arjuna Weragoda, P.E., Capital Projects Manager  
**Subject:** Maintenance Work at the Northern Containment Berm for Spoonbill Marsh.

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**DESCRIPTIONS AND CONDITIONS:**

Indian River County Department of Utility Services (IRCDUS) owns and operates two (2) regional potable water treatment facilities. The North County Reverse Osmosis (NCRO) Water Treatment Plant is rated for 11.44 million gallons per day (mgd). The facility includes a brackish water man-made treatment system named Spoonbill Marsh. Demineralization concentrate from the NCRO water treatment plant is transmitted via a 16-inch diameter pipe and blended with Indian River Lagoon water at ratios to achieve compliance with Class III marine surface waters, then discharged to a 69+ acre marsh before exiting through runnels to the Indian River Lagoon. The northern maintenance access berm between the Florida Department of Transportation (FDOT) ditch and the Spoonbill Marsh site needs further evaluation to establish safe elevations for current and/or anticipated future flows.

**ANALYSIS:**

Knight, McGuire and Associates, Inc., (KMA) has intimate knowledge of the subject area and is currently the Engineer of Record for the property to the north owned by Indian River Land Trust. For these reasons, staff reached out to KMA for a proposal to evaluate the requirements and implementation of some of the maintenance activities due to their intimate knowledge of the site. KMA Work Order No. 1 is provided in accordance with the Extension and Amendment of Continuing Contract Agreement for Professional Services entered into on the 4<sup>th</sup> day of November, 2014, and Extension of Continuing Contract Agreement for Professional Services entered into on the 24<sup>th</sup> day of October, 2017. The scope is more specifically described in Work Order No. 1. The total negotiated cost for the Northern Containment Berm Maintenance Evaluation in Work Order No. 1 is a lump sum amount of \$28,500.00, separated into four (4) tasks.

**FUNDING:**

Funding for the Northern Containment Berm Maintenance Evaluation is available in the Spoonbill Marsh - Northern Containment Berm Maintenance account within the Utilities Operating Fund. Operating funds are derived from water and sewer sales.

<b>Description</b>	<b>Account Number</b>	<b>Amount</b>
Spoonbill Marsh- Northern Containment Berm Maintenance	47123536-044699-18513	\$28,500.00

**RECOMMENDATION:**

Staff recommends approval of Work Order No. 1 authorizing the mentioned professional services and requests the Board of County Commissioners to authorize the Chairman to execute Work Order No.1 on their behalf for a lump sum amount of \$28,500.00 to Knight, McGuire and Associates, Inc.

**ATTACHMENT(s):**

Work Order No. 1 and supporting documents *(5 Pages)*