



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.4.

5/18/2021

Subject:

Florida Department of Environmental Protection Grant INV14 - Satellite Algae Bloom and Nutrient Source Tracking

Fiscal Impact:

FY21 through FY23 - \$291,000 in grant funds; no local match is required

Dept/Office:

Natural Resources Management

Requested Action:

It is requested that the Board of County Commissioners: (1) Authorize the County Manager to execute DEP Contract INV14, subject to the approval of the County Attorney's Office, Purchasing, and Risk Management; (2) Authorize the County Manager to execute task orders up to the grant funded amount, as needed to accomplish the work, subject to the approval of the County Attorney's Office, Purchasing, and Risk Management; (3) Authorize the County Manager to execute amendments to the contract, as needed, subject to the approval of the County Attorney's Office, Purchasing, and Risk Management; and (4) Approve associated budget change requests.

Summary Explanation and Background:

Brevard County has been awarded \$291,000 in grant funds through the Florida Department of Environmental Protection Innovative Technology Grant. The grant funds are for analyzing a full year of Sentinel 2 and 3 satellite imagery of Brevard County's portion of the Indian River Lagoon to visualize the location, expanse, propagation, spread and collapse of algae blooms. Analysis of the imagery will be locally calibrated by collecting hyperspectral data from unmanned aerial vehicles in coordination with water quality data collected by St Johns River Water Management District.

The grant will fund rapid satellite image processing and distribution on a platform shared with resource managers and researchers for the purpose of improving our understanding of local bloom dynamics. This visualization tool may elucidate bloom hotspots and propagation pathways to help local stakeholders direct pollution source control and mitigation efforts to the most critical areas for preventing blooms or inhibiting their spread.

Clerk to the Board Instructions:

Natural Resources will circulate the contract for signature and attestation after the state provides the draft grant contract and a final draft is approved by the County Attorney, Risk Management and Purchasing



May 19, 2021

MEMORANDUM

TO: Virginia Barker, Natural Resources Management Director

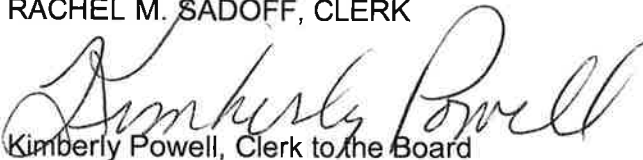
RE: Item F.4., Florida Department of Environmental Protection (DEP) Grant INV14 - Satellite Algae Bloom and Nutrient Source Tracking

The Board of County Commissioners, in regular session on May 18, 2021, authorized the County Manager to execute DEP Contract INV14, subject to the approval of the County Attorney's Office, Purchasing, and Risk Management; authorized the County Manager to execute task orders up to the grant funded amount, as needed to accomplish the work, subject to the approval of the County Attorney's Office, Purchasing, and Risk Management; authorized the County Manager to execute amendments to the contract, as needed, subject to the approval of the County Attorney's Office, Purchasing, and Risk Management; and approved associated Budget Change Requests.

Your continued cooperation is greatly appreciated.

Sincerely yours,

BOARD OF COUNTY COMMISSIONERS
RACHEL M. SADOFF, CLERK


Kimberly Powell, Clerk to the Board

/ns

cc: Finance
Budget
County Manager
County Attorney
Risk Management
Purchasing