


## SEBASTIAN INLET DISTRICT BOARD MEMORANDUM

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**TO:** Members of the Board  
of Sebastian Inlet District Commissioners

**FROM:** James D. Gray, Jr.   
Executive Director

**SUBJECT:** **Work Order No. 2526-013 - ATKR, AtkinsRealis  
2026 Flood Tidal Shoal Seagrass Monitoring and Hardbottom Biological  
Monitoring**

**DATE:** March 30, 2026

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### **BACKGROUND**

On October 14, 2020, the Board approved a 5-year Master Services Agreement (MSA) with AtkinsRéalis USA Inc. (AtkinsRéalis), for continuing professional coastal engineering and biological support services.

On November 12, 2025, the Board approved Amendment 1 to the MSA, extending the term to November 12, 2030.

### **DESCRIPTION AND CONDITIONS**

The proposed Work Order No. 2526-013 - ATKR provides the continuation of annual aerial analysis and field monitoring of the seagrasses within the flood tidal shoal, provides permit required post construction monitoring of seagrasses along the recently dredged Sebastian Inlet navigation channel corridor, and permit required post construction hardbottom monitoring offshore of the Sand Trap Dredging and Beach Placement project.

The total amount of the work order is \$231,305 and will be invoiced on a not-to-exceed fee basis only for actual expended effort. These fees are \$55,221.24 higher than similar services for FY 24/25, resulting from increases in consultant personnel rates approved under Amendment 1 and an additional consultant mobilization allowance in the event of poor ocean visibility conditions requiring remobilization.

### **FUNDING**

Funding for this expenditure is budgeted and available under Mitigation Monitoring Account No. 5373-314 (Tasks 2, 3 and 4) and Sand Trap Dredging/Permit Related Costs/Monitoring Account No. 5372-470 (Tasks 1, 5, 6,7, and 8) Additionally, the permit required services provided under Work Order No. 2526-013-ATKR are eligible for 50% State cost share under the Florida Department of Environmental Protection Beach Management Funding Assistance Program Grant No. 24IR1-Amendment No. 2.

**RECOMMENDATION**

The recommendation of staff is for the Board to approve Work Order No. 2526-013 – ATKR to the contract with AtkinsRealis and authorize the Executive Director to sign on behalf of the District.

**ATTACHMENT**

AtkinsRealis Work Order No. 2526-013 – ATK, dated March 26, 2026

**APPROVED AGENDA ITEM FOR: APRIL 8, 2026**

March 26, 2026

James D. Gray, Jr.  
Executive Director  
114 Sixth Avenue  
Indialantic, Florida 32903  
(321) 724-5175  
jgray@sitd.us

RE: 2026 Flood Tidal Shoal/Dredge Transect Seagrass and Hardbottom Biological Monitoring

Dear Mr. Gray

As requested, AtkinsRéalis is submitting a scope for Aerial Analysis and Field Verification of Seagrass on the Flood Tidal Shoals, Dredge Transect Seagrass, and Hardbottom Transect Biological Monitoring.

## Background

The 2026 flood tidal shoal monitoring will consist of the annual monitoring of seagrass coverage on the flood tidal shoals. The annual monitoring on the shoals focuses on the extent of seagrass coverage on the flood tidal shoal and anthropogenic impacts on the shoal. In addition, this scope of service includes dredge transect seagrass and biological hardbottom monitoring in accordance with the Seagrass Monitoring Plan and the Biological Monitoring Plan incorporated into the Florida Department of Environmental Protection Permit Number 0270746-006-JC. AtkinsRéalis staff will survey the 46 dredge transects identified in the Seagrass Monitoring Plan, along with the eight (8) established hardbottom transects. These efforts are represented by the tasks below. The costs provided represent not-to-exceed estimates; the performance of this scope of services is based on time and materials.

## Scope of Services

The scope of work for this project is divided into the nine (9) tasks below:

### Task 1: Mobilization/Preparation

All logistics, equipment, and expenses required for the monitoring and field work will be prepared and mobilized. This task covers four (4) separate mobilizations with the first mobilization for the field verification of seagrass on the flood tidal shoals (one vessel for five days) and up to three (3) mobilizations for field verification of seagrass within the channel (two vessels for two days) with hardbottom transect monitoring (two vessels for eight days).

### Task 2: Aerial Analysis

AtkinsRéalis biologists will work directly with GPI to identify the best date and time to collect the aerial imagery at the flood tidal shoal and ensure that the aerial photographs are of sufficient quality for the analysis. Quantitative estimates of seagrass coverage within the established signage boundaries will be derived from orthorectified aerials using GIS software. Questionable features will be located and noted for field validation; if hotspots of vessel damage to seagrass are observed they will be marked for field investigation. Additionally, quadrat points will be distributed spatially across the shoals to collect species composition and density data.

### **Task 3: Field Validation of Aerials Imagery on the Shoals**

Surveys will field-verify the features and conditions that have been identified remotely, i.e. seagrass species and coverage and anthropogenic impacts (e.g. prop-scar hotspots). This will include data collection on quadrat points.

### **Task 4: Shoal Monitoring Report Writing**

AtkinsRéalis biologists will develop a monitoring report summarizing the results of the aerial analysis and field verification efforts. The information collected from the field validation of the aerials will be compared to the 2025 monitoring event. The annual monitoring data collected on the Sebastian Inlet flood tidal shoal will also be compared to previous data. This includes consultation with the St. John's River Water Management District on data collection and trends within the Indian River Lagoon.

- Deliverable: 2026 Shoal Monitoring Report in pdf format

### **Task 5: Dredge Transect Seagrass Monitoring**

AtkinsRéalis will perform monitoring of all 46 transects in the Seagrass Monitoring Plan unless the final dredge limits truncate the required monitoring limits. This monitoring effort will develop a complete permit required comparison of post-construction and baseline seagrasses survey data along the navigation channel corridor in accordance with the Seagrass Monitoring Plan requirements.

### **Task 6: Biological Hardbottom Monitoring**

AtkinsRéalis will monitor all eight (8) established hardbottom monitoring transects in Sectors 1 and 2 unless the final beach placement limits truncate the required monitoring limits, in accordance with the Biological Monitoring Plan. AtkinsRéalis shall submit weekly progress reports via email to the Bureau of Beaches and Coastal Systems once monitoring is initiated. The weekly progress reports shall include any adverse weather conditions encountered which do not allow for field operations, along with a log of with digital video documentation of all attempts to conduct the survey and weather/visibility conditions which prevented collection of the required data.

- Deliverable: Weekly progress report emails

### **Task 7: Dredge Transect Seagrass Reporting**

AtkinsRéalis will develop a report summarizing the results of the channel transect post-construction monitoring survey compared with the baseline survey data collected in 2025.

- Deliverable: Field notes and survey datasheets (scanned to PDF) and all survey data (in Excel workbook format), Dredge Transect Seagrass Summary Report

### **Task 8: Biological Monitoring Plan Reporting**

AtkinsRéalis staff will prepare all data deliverables after completion of the survey to include digital video transects. In addition, a report will be developed summarizing the results of the post-construction biological monitoring survey with the baseline survey data collected by others.

- Deliverable: Digital video transects on compact disk, Excel spreadsheet, 2026 Biological Monitoring Report in pdf format

## **Assumptions and Exclusions**

The following is a list of assumptions and exclusions that apply to the scope of work.

- This scope of work includes up to three (3) mobilizations for hardbottom transect monitoring efforts. AtkinsRéalis will monitor weather/visibility conditions before initiating mobilization.
- The hardbottom monitoring effort shall be prioritized for weather windows following completion of the construction project. Weather shall be monitored weekly to anticipate upcoming weather windows. A weather window is defined as three (3) days of forecasted favorable westerly winds resulting in anticipated sufficient water visibility.
- This scope of work does not include services associated with the Contingency Monitoring Plan for completion of the biological survey if hardbottom monitoring is less than 50% complete by August 15, 2026 due to the persistently adverse visibility conditions. A change order may be required for additional mobilizations if the Contingency Monitoring Plan is executed.

- This scope of work assumes that all prior work performed by other firms, professionals, and others is of sound quality and is ready to be adopted in our phases of design. The work performed by others includes but is not limited to: surveys, environmental analysis and permit consultation. It is expressly understood that AtkinsRéalis and its staff are not responsible for any errors, omissions, or delays resulting from work performed by others.
- The proposed work includes elements which will be required for the first year of construction only. Permit required out-year post construction monitoring (physical and environmental) is not included in the proposed work.
- Aerial flight fees will be contracted directly by and through SID and dates subject to change based on water clarity conditions.

### Project Fee:

The anticipated not-to-exceed fee for this scope is \$231,305. The breakdown by task is as follows:

Task	Fee
Task 1: Mobilization/Preparation (including expenses)	\$77,715
Task 2: Aerial Analysis	\$6,860
Task 3: Field Validation of Aerials Imagery on the Shoals	\$14,890
Task 4: Shoal Monitoring Report Writing	\$8,900
Task 5: Dredge Transect Seagrass Monitoring	\$8,000
Task 6: Biological Hardbottom Monitoring	\$87,940
Task 7: Dredge Transect Seagrass Reporting	\$5,360
Task 8: Biological Monitoring Plan Reporting	\$21,640

Compensation values for Scope Items are not-to-exceed estimates for the services identified in the scope above and in accordance with the “MASTER PROFESSIONAL SERVICES AGREEMENT – Amendment 1 – Extension 2025 – 2030 Continuing Professional Coastal Engineering and Biological Support Services” between the Sebastian Inlet District and AtkinsRéalis USA, Inc dated November 12, 2025. The billing rates for this task order are based on the Billing Rate Schedule in the above referenced contract.

Each invoice submitted will be based on time and materials (per contract labor rates) and include a list of the specific milestone deliverables and their corresponding completion status.

### Anticipated Project Schedule:

<u>Task</u>	<u>Complete by:</u>
Task 1. Mobilization/Preparation	October 1, 2026
Task 2. Aerial Analysis	October 1, 2026
Task 3. Field Validation of Aerials Imagery on the Shoals	March 31, 2027
Task 4. Shoal Monitoring Report Writing	March 31, 2027
Task 5. Dredge Transect Seagrass Monitoring	October 1, 2026
Task 6. Biological Hardbottom Monitoring	October 1, 2026
Task 7. Dredge Transect Seagrass Reporting	December 31, 2026
Task 8. Biological Monitoring Plan Reporting	December 31, 2026

Should you have any questions or require any additional information please do not hesitate to contact me at (321) 775-6642 or by email at: [Marie.Yarbrough@atkinsrealis.com](mailto:Marie.Yarbrough@atkinsrealis.com).

Kind regards

Marie Yarbrough, PE  
 CC: Stephen Trbovich and Mark Henry, AtkinsRéalis

**Man Hour and Expense Breakdown**

Project:	<b>2026 Seagrass and Hardbottom Biological Monitoring</b>	3/27/2026
BY:	<b>ST/MY</b>	

<b>TASK DESCRIPTION</b>	Engineer II	Senior Engineer II	Senior Project Manager	Senior Scientist III	Senior Scientist II	Senior Scientist I	Scientist II	Scientist I	Project Director	Project Manager	
01: Mobilization/Preparation	68.0	24.0	20.0	20.0		96.0	16.0	32.0	4.0		<b>\$43,420</b>
02: Aerial Analysis						40.0	4.0			4.0	<b>\$6,860</b>
03: Field Validation of Aerial Imagery on Shoals	50.0					50.0			4.0		<b>\$14,890</b>
04: Shoal Monitoring Report Writing						60.0	4.0				<b>\$8,900</b>
05: Dredge Transect Seagrass Monitoring	20.0					20.0	20.0				<b>\$8,000</b>
06: Biological Hardbottom Monitoring	170.0	80.0				170.0	70.0	150.0	4.0		<b>\$87,940</b>
07: Dredge Transect Seagrass Reporting						32.0		8.0			<b>\$5,360</b>
08: Biological Moniotring Plan Reporting					16.0	90.0	20.0	20.0	4.0		<b>\$21,640</b>
<b>TOTAL HOURS</b>	308.0	104.0	20.0	20.0	16.0	558.0	134.0	210.0	16.0	4.0	<b>1390</b>
<b>LABOR RATE</b>	\$135.00	\$185.00	\$265.00	\$220.00	\$200.00	\$140.00	\$125.00	\$110.00	\$285.00	\$190.00	
<b>TOTAL</b>	\$41,580	\$19,240	\$5,300	\$4,400	\$3,200	\$78,120	\$16,750	\$23,100	\$4,560	\$760	<b>\$197,010.00</b>

*NOTE: The man hour distribution shown above is for budget estimating purposes only. Actual man hour distribution may vary based on project progress and specific needs. The total estimated fee will not be exceeded without an executed change order.*

<b>Reimbursable Expenses</b>	Boat Usage (2)	Trucks w/ 4WD (2)	Lodging	Meals	Dive Tanks	Dive Equipment					
01: Mobilization/Preparation	22	1	1	1	1	1					<b>\$ 34,295.00</b>
<b>UNITS</b>	DAY	LUMP	LUMP	LUMP	LUMP	LUMP					
<b>RATE</b>	\$500.00	\$4,720.00	\$11,000.00	\$4,000.00	\$1,100.00	\$2,475.00					
<b>TOTAL</b>	\$ 11,000.00	\$4,720	\$11,000	\$4,000	\$1,100	\$2,475					<b>\$ 34,295.00</b>