

F. Consent Agenda - Utility Services Department  
ITEM**Approval Re: Task Order No. 19 for Mead & Hunt, Inc. for South Central Service Area Reclaimed Water Facility Plan****SUBJECT:**

Approval Re: Task Order No. 19 with Mead & Hunt, Inc. for the South Central Service Area Reclaimed Water Facility Plan - District 4

**FISCAL IMPACT:**

\$134,680

**DEPT/OFFICE:**

Utility Services

**REQUESTED ACTION:**

It is requested that the Board of County Commissioners authorize the Chairman to execute Task Order No. 19 with Mead & Hunt, Inc. for the South Central Service Area Reclaimed Water Facility Plan and authorize any budgetary changes.

**SUMMARY EXPLANATION and BACKGROUND:**

The County has identified the need to prepare a Facility Plan for the South Central Service Area reclaimed water supply, storage and distribution system. The plan will evaluate existing system constraints and recommend improvements to current operating conditions. It will identify future demands and propose sources of supply and new infrastructure required to provide continuous, reliable service.

The Master Plan will be prepared in State Revolving Fund (SRF) "Facility Plan" format. This is proposed to obtain clearinghouse approval from regulatory agencies and enable project funding through the SRF loan program.

The Facility Plan will identify opportunities for, and potential nutrient reduction levels of, surface water withdrawn to augment the reclaimed water system which will, in turn, reduce surface water and nutrient discharges to the Indian River Lagoon and St John's River. It will support future grant applications for SJRWMD cost share and sales tax funding opportunities.

Contact: Jim Helmer, Utility Services Director, 321-633-2019, jim.helmer@brevardfl.gov

**CLERK TO THE BOARD INSTRUCTIONS:**

Please forward two executed Task Orders to Utility Services Department and retain one for Clerk records.

**ATTACHMENTS:****Description**

No Attachments Available

**CLERK TO THE BOARD INSTRUCTIONS:**

Please forward two executed Task Orders to Utility Services Department and retain one for Clerk records.

**ATTACHMENTS:**

**Description**

- **Task Order 19 Mead & Hunt SCWWTF Reclaimed Water Facility Plan**



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001  
Fax: (321) 264-6972  
Tammy.Rowe@brevardclerk.us

August 15, 2018

**M E M O R A N D U M**

**TO:** Jim Helmer, Utility Services Director

**RE:** Item F.7., Task Order No. 19 with Mead & Hunt, Inc. for South Central Service Area Reclaimed Water Facility Plan

The Board of County Commissioners, in regular session on August 14, 2018, authorized the Chair to execute Task Order No. 19 with Mead & Hunt, Inc. for the South Central Service Area Reclaimed Water Facility Plan; and authorized any budgetary changes. Enclosed are two fully-executed Task Orders.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS  
SCOTT ELLIS, CLERK

*Tammy Rowe*

Tammy Rowe, Deputy Clerk

Encls. (2)

cc: Finance  
Budget

**TASK ORDER NO. 19**  
**Mead & Hunt, Inc.**  
**South Central Service Area Reclaimed Water Facility Plan**

THIS TASK ORDER is made and entered into by and between the Board of County Commissioners of Brevard County, Florida, hereinafter referred to as "County" and, Mead & Hunt, Inc., hereinafter referred to as "Consultant", consistent with the terms of the Master Agreement between the County and Consultant;

WHEREAS, the Master Agreement between the County and Consultant provides that requirements for professional services are to be set forth in tasks orders;

IT IS AGREED as follows:

**Section A. BACKGROUND AND INTENT**

The County has identified the need to prepare a Facility Plan for the South Central Service Area Reclaimed Water Supply, storage and distribution system. The plan will evaluate existing system constraints and recommend improvements to improve current operating conditions. It will identify future demands and propose sources of supply and new infrastructure required to provide continuous, reliable service.

The Master Plan will be prepared in State Revolving Fund (SRF) 'Facility Plan' format. This is proposed to obtain clearinghouse approval from regulatory agencies and enable project funding through the SRF loan program. The Facility Plan will identify nutrient reduction estimates for projects that will reduce discharges to the Indian River Lagoon (IRL) and St. John's River. It will support future grant applications for SJRWMD cost share and sales tax funding opportunities.

The expectation of the County is, and it is acknowledged by the Consultant, that the Consultant will coordinate with the County staff prior to submitting this task order to become familiar with the project requirements in a general way and determine the scope of available documentation and resources.

**Section B. PROJECT REPRESENTATIVES**

For Brevard County Utility Services:

Mark W. Reagan, JD, PE  
321-633-2089  
[Mark.Reagan@brevardcounty.us](mailto:Mark.Reagan@brevardcounty.us)

For Consultant:

Brad Blais, P.E.  
386-761-6810  
[Brad.blais@meadhunt.com](mailto:Brad.blais@meadhunt.com)

**Section C. SCOPE OF WORK**

The Consultant will provide engineering and planning services as follows:

Task 1 - Hydraulic Modeling

Prepare hydraulic analysis for reclaimed water storage transmission and distribution system, using the County's model as a basis for existing conditions. Runs will be done for existing systems as well as the system in year 2025 and 2035.

Task 2 - Capital Projects

Identify capital projects and solutions for immediate improvement, mid-term improvement, and long-term programming. Identify administrative improvements as well as structural improvements (fees, watering schedules, communication with users, etc.)

Task 3 - Service Areas

Establish ultimate capacity limitations for reclaimed water system and identify which areas are recommended to receive reclaimed water service. Prepare maps and figures.

Task 4 - Augmentation Needs

Identify reclaimed water storage and recovery options to increase wet weather storage and provide dry weather service. Evaluate reuse augmentation requirements, projects and additional treatment requirements and costs. Include conceptual designs and figures.

Task 5 - Project Development

Prepare figures clearly identifying areas currently served by reclaimed water, areas which have 'dry' lines or stubs, for future service, areas recommended for future service and areas potentially not recommended for service. Prepare figures depicting future RWM extensions, storage and pumping projects.

Coordinate proposed reclaimed water system improvements with anticipated state and county roadway projects.

Prepare construction cost estimates (in current year dollars) and implementation schedules for all reclaimed water projects including survey, design and contract administration/inspection costs.

Task 6 - Facility Planning and Grant Assistance

SRF Facility Plan formatting and submission to FDEP and state clearinghouse. Prepare nutrient reduction estimates and water supply volumes for water quality and quantity grant applications. Provide grant application assistance for SJRWMD cost share and Indian River Lagoon Program sales tax programs.

**Section D. COORDINATION**

The Consultant will coordinate the design with the County Staff members listed below as appropriate.

<b>Function</b>	<b>Name</b>	<b>Email</b>	<b>Phone</b>
Safety	Mike Malavolta	<a href="mailto:Mike.Malavolta@brevardfl.gov">Mike.Malavolta@brevardfl.gov</a>	321-633-2093
Operations Mgr.	Brian Sorensen	<a href="mailto:Brian.Sorensen@brevardfl.gov">Brian.Sorensen@brevardfl.gov</a>	321-633-2093
Area Operations	Robert Edmiston	<a href="mailto:Robert.Edmiston@brevardfl.gov">Robert.Edmiston@brevardfl.gov</a>	321-952-6363
SCADA	Steve Allen	<a href="mailto:Steve.Allen@brevardfl.gov">Steve.Allen@brevardfl.gov</a>	321-255-4331
Construction	Craig Helpling	<a href="mailto:Craig.Helpling@brevardfl.gov">Craig.Helpling@brevardfl.gov</a>	321-633-2089
Engineering	Don Kean	<a href="mailto:Don.Kean@brevardfl.gov">Don.Kean@brevardfl.gov</a>	321-633-2089

### **Section E. COUNTY'S RESPONSIBILITY**

The following shall be provided by the County in order to assist in the completion of the Consultant's tasks:

- a) Reasonable access to the site.
- b) Reasonable access to operations, maintenance, and engineering staff.
- c) AutoCAD drawings of County design standards.
- d) MS Word files of County standard technical specifications.
- e) Copies of available as-built drawings.
- f) Copies of available design and construction documents.
- g) Copies of available operating reports and maintenance records.
- h) Lift station control panel design and specifications.
- i) MS Word template for Division 0 and 1 specifications.
- j) Advertisement and distribution of bid packages.
- k) Submittal of permit applications prepared by the Consultant.
- l) Payment of permit fees.
- m) Coordination with other County offices and federal and state regulatory agencies.
- n) Coordination with construction contractor for connection to County SCADA.
- o) Day-to-day observation of construction and coordination with Consultant.

### **Section F. CONSULTANT SERVICES SPECIFICALLY NOT INCLUDED**

- a) Environmental services related to threatened and endangered species, wetlands, or regulated solid wastes encountered on the site geotechnical investigations, permit application fees and all items not specifically included herein.
- b) Services related to acquisition of real property, easements, or rights-of way.

### **Section G. DELIVERABLES**

The following results shall be delivered by the Consultant:

All deliverables shall be provided only in electronic PDF format unless otherwise noted.

Generally –

- a) Monthly activity reports.
- b) Decision logs from meetings and conferences with County staff and regulatory agencies.
- c) Comment response tables showing comment and response for County comments.
- d) Timely invoices concurrent with the work.

#### **Task 1 – Hydraulic Modeling**

- a) Preliminary model results and scenarios.

- b) Final modeling results and short-term, mid-term and long-term improvements.

**Task 2 – Capital Projects**

- a) Table of proposed capital projects prioritized and identified by immediate, mid-term, and long-term need with estimated costs in 2018 dollars.

**Task 3 – Service Areas**

- a) Report section identifying demand nodes, demands and supply capacity.
- b) Figure depicting future service areas and demand estimates.

**Task 4 – Augmentation Needs**

- a) Report section identifying augmentation requirements, alternative analyses, and project sites.
- b) Figures, conceptual designs, production capacity estimates and cost estimates for augmentation projects.

**Task 5 – Project Development**

- a) Report section identifying storage, distribution and pumping projects.
- b) Construction cost estimates for capital projects. Alternatives assessment with cost benefit analysis for recommended projects.

**Task 6 – Facility Planning and Grant Assistance**

- a) SRF Facility Plan, submission to FDEP and response to comments.
- b) Grant assistance and application of up to two (2) application packages.

**Section H. SCHEDULE**

<b>Milestone</b>	<b>Calendar Days to Complete</b>	<b>Sum of Days from NTP</b>
Hydraulic modeling and service areas, Tasks 1(a) and 2(a)	60	60
County review and comment	14	74
Hydraulic modeling, service areas, augmentation needs and project development, Tasks 1(b), 2(a), 3(a) and 4(a). (Including draft permit applications)	60	134
County review	14	148
Augmentation needs, project development and facility planning, Tasks 3(b), 4(b), 5(a) and 5(b) (Including final permit applications)	60	208
County review	14	222
Facility planning and grant assistance, Task 6(a) and 6(b)	30	252
County review and approval	28	270

NOTE: The County may suspend the Consultant's schedule for real estate acquisition, environmental remediation, coordination with other projects, or unforeseen circumstances causing delay.

**Section I. BASIS OF COMPENSATION**

The fee for the scope of work described in Section C, above, shall not exceed a total of \$ 134,680 and shall not exceed the amounts shown in the table below for each specific task. The County shall periodically compensate the Consultant a portion of the task fee based on mutually agreed upon percentages of completion of each task.

Task	Description	Fee
1	Hydraulic Modeling	\$17,760
2	Capital Projects	\$14,800
3	Service Areas	\$16,560
4	Augmentation Needs	\$27,000
5	Project Development	\$30,000
6	Facility Planning & Grant Assistance	\$28,560
	<b>Total</b>	<b>\$134,680</b>

**Section J. ACCEPTANCE**

IN WITNESS WHEREOF, this 14 day of August, 2018.

ATTEST:

  
Scott Ellis, Clerk

For: BOARD OF COUNTY COMMISSIONERS  
OF BREVARD COUNTY, FLORIDA

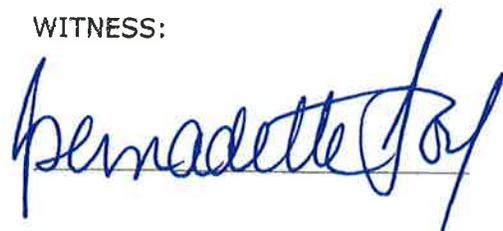
By:

  
Rita Pritchett, Chair

As approved by the Board on

AUG 14 2018

WITNESS:



For: Mead & Hunt, Inc.

By:

  
Brad Blais, PE

Vice President/Marker Leader