

WORK ORDER 11

Water Supply Facilities Work Plan

This Work Order Number 11 is entered into as of this ___ day of _____, 2022, pursuant to that certain Continuing Contract Agreement, dated April 17, 2018, renewed and amended as of May 18, 2021 (collectively referred to as the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Tetra Tech, Inc. ("Consultant").

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit C (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:

**BOARD OF COUNTY COMMISSIONERS
OF INDIAN RIVER COUNTY**

By: _____

By: _____

Print Name: Brenda Keenan P.E.

Joseph H. Earman, Chairman

Title: Sr. Project Manager

BCC Approved Date: _____

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By: _____

Deputy Clerk

Approved: _____

Jason E. Brown, County Administrator

Approved as to form and legal sufficiency: _____

Dylan T. Reingold, County Attorney

ATTACHMENT A

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICE

WATER SUPPLY FACILITIES WORK PLAN

SCOPE OF SERVICES

I. BACKGROUND

Florida Statutes Section 163.3177 requires local governments within areas projected to have insufficient supplies of water from traditional sources to:

1. Amend their comprehensive plan to incorporate alternative water supply projects either developed by the local government or included in the regional water supply plan and,
2. Adopt a work plan covering at least a 10-year planning period for building water supply facilities including the development of alternative water supply projects, conservation and reuse to serve existing and future development

Indian River County as part of the St. Johns River Water Management District falls under the Central Springs/East Coast (CSEC) Regional Water Supply Plan (2020-2040) which was recently prepared in February 2022.

This scope of services includes the preparation of the 10-year work plan. The professional services described herein will be performed in accordance with the Continuing Contract Agreement for Engineering Services, dated April 17, 2018, Amendment 1 between Indian River County and Tetra Tech, Inc.

II. SCOPE OF WORK

Task 1 – Preliminary Work Tasks

1. Tetra Tech will arrange for and attend a project kickoff meeting to introduce team members, establish lines of communication, discuss project objectives and expectations and review data availability and collection. Tetra Tech will prepare and distribute minutes to all participants within a week of the meeting.
2. Tetra Tech will develop an initial data request of documents and information required to perform the study and evaluation. The data request will be prepared in preparation for the kickoff meeting so that it can be reviewed at the meeting.
3. Tetra Tech will receive, list, and organize all the data received from the County for use in the study and evaluation.

Task 2 – Data and Analysis - Tetra Tech will prepare a Water Supply Facilities Work Plan that generally conforms to the template provided by the South Florida Water Management District.

1. Population and Water Demand Information – Tetra Tech will work with the County to determine the best population and water demand information for use in the Water Supply Facilities Work Plan. The projections may be based upon those in the CSEC Regional Water Supply Plan or other projections already developed for the County water service area.
2. Maps – Tetra Tech will develop the required maps for the Water Supply Facilities Work Plan including:
 - a. County land uses and urban planning areas – information to be provided by the County
 - b. Water utility service areas within the County – information to be provided by the County
 - c. Water Basins within the County – Tetra Tech to develop
 - d. Locations of County water supply facilities – information to be provided by the County
3. Water Level of Service- Tetra Tech will provide a summary of the County’s level of service for potable water as well as a summary of flow criteria used for the projections.
4. Areas served by Other Suppliers – Tetra Tech will work with the County to develop a request for water supply resources commitment from other non-local government providers in the County. The request will ask for a letter from each supplier confirming the availability of adequate water resources and providing supporting documentation that will be included in the County’s Water Supply Facilities Work Plan. The request will be sent by the County and responses will be received by the County with coordination from Tetra Tech.
5. Water Facilities - Tetra Tech will provide a summary of the water supply facilities including wells, water treatment plants and their capacities and storage tanks.
6. Conservation and Reuse Practices – Tetra Tech will summarize the conservation and reuse practices in the County including those pertinent policies in the County’s Comprehensive Plan.
7. Potable Water and Reuse Demand Analysis – Tetra Tech will use the potable water demand projections developed above to demonstrate availability of demand for a ten-year period. The analysis will include the impact of reuse on the potable demand projections. Tetra Tech will work with the County to develop reuse demand projections if they are not available.
8. Alternative Water Supply – Tetra Tech will summarize the County’s alternative water supply projects that are planned to address future water demands.
9. Capital Improvement Program – Tetra Tech will summarize the County’s water and reuse water capital improvement program (CIP) for the ten-year period. The CIP will include a brief project description and estimated cost.

10. Goals Objectives and Policies – Tetra Tech will summarize the pertinent goals, objectives and policies in the County’s Comprehensive Plan and make recommendations for revisions to the Comprehensive Plan to meet the requirements of the Water Supply Work Plan.

Task 3 – Draft and Final Water Supply Plan

1. Tetra Tech will prepare a draft Water Supply Facilities Plan for County review. Three hard copies of the draft will be provided in addition to a pdf and doc electronic copies.
2. Tetra Tech will attend a review meeting to receive and discuss County comments.
3. Tetra Tech will prepare a final Water Supply Facilities Work Plan and submit to the County.

Task 4 – Other Services

1. An allowance is budgeted for follow up activities that may be required in the course of the development of the Water Supply Work Plan. This may include attendance at meetings with the Water Management District or others, coordination with Comprehensive Plan amendments, etc.

III. PROVIDED BY COUNTY

Information including, but not limited to the following, to be provided by the County to facilitate performing the scope of services:

- Population and water demand projections
- County land use and water service area information
- Comprehensive Plan Elements
- Water system facility information
- Requested information from non-local water providers in the County per Task 2 Item 4 above.
- Ten-year water and reuse capital improvement program with projected funding sources
- Planned alternative water supply projects

IV. COMPENSATION SUMMARY

Attachment B presents a more detailed breakdown of the estimated compensation defined in the Scope of Services. The total lump sum compensation for this proposal is **\$43,469.00**. The County will be invoiced monthly for charges incurred during the previous month and submit the invoice to the Water Wastewater Operations Manager by the 15th of the following month.

Scope Item	Compensation
Task 1 – Preliminary Work Tasks	\$3,529.00
Task 2 – Data and Analysis	\$26,102.00
Task 3 – Draft and Final Water Supply Facilities Plan	\$8,353.00
Task 4—Other Services	\$4,935.00
Direct Costs	\$550.00
Total	\$43,469.00

V. SCHEDULE

Task	Days
Task 1 – Preliminary Work Tasks	10
Task 2 – Data and Analysis	60
Task 3 – Draft Water Supply Facilities Plan	75
Task 3 – Final Water Supply Facilities Plan	105
Task 4—Other Services	As needed



Price Proposal

Labor Plan

5 Resource

Indian River Co Water Supply Work Plan

Bill Rate >	246.75	152.88	112.50	126.93	82.50
Proj Area >					

Develop a Water Supply Facilities Work Plan

Submitted to: Indian River County Dept. of Utility Services

Contract Type: Fixed Proce

Project Phases / Tasks	Total Labor Hrs	Sr Project Manager (Woodcock)	Project Engineer 2 (Ribotti)	Engineer 3 (Arenas)	Sr GIS Analyst (Morris)	Project Administrator (Lawrence)	Labor	Subs	Travel	Mat'ls & Equip	ODCs	Task Pricing Totals
	304	44	78	150	14	18	42,919	-	550	-	-	43,469
1. Preliminary Work Tasks	24	4	8	8	2	2	3,529					3,529
2. Data and Analysis	192	16	54	110	12	-	26,102	-	-	-	-	26,102
1. Population and Demand Information	8		4	4			1,062					1,062
2. Maps	24		4	8	12		3,035					3,035
3. Water Level of Service	6		2	4			756					756
4. Areas Served by Other Utilities	36	4	8	24			4,910					4,910
5. Water Facilities	10		4	6			1,285					1,287
6. Conservation and Reuse Practices	12		4	8			1,512					1,512
7. Potable Water Demand and Reuse Demand Analysis	28	4	8	16			4,010					4,010
8. Alternative Water Supply	28	4	8	16			4,010					4,010
9. Capital Improvement Program	26	2	8	16			3,517					3,517
10. Objectives Goals and Policies	14	2	4	8			2,005					2,005
3. Draft and Final Water Supply Plan	68	4	16	32		16	8,353					8,353
4. Other Services	20	20					4,935					4,935
5. Direct Costs	-								550			550
Totals	304	44	78	150	14	18	42,919	-	550	-	-	43,469