

**WORK ORDER NUMBER CCNA2014WO11**

**Evaluation Monitoring for the C&D Debris Landfill in 2017**

---

This Work Order Number 11 is entered into as of this \_\_\_\_ day of July, 2017, pursuant to that certain Continuing Contract Agreement for Professional Services, dated December 6, 2011, and that certain Extension and Amendment of Continuing Contract Agreement for Professional Services entered into as of this 4<sup>th</sup> day of November, 2014 (collectively referred to as the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and CDM Smith, Inc. ("Consultant").

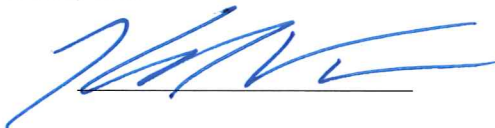
The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), 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:**  
**CDM Smith, Inc.**

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

By: \_\_\_\_\_



Title: Principal Environmental Engineer

By: \_\_\_\_\_

, Chairman

BCC Approved Date: \_\_\_\_\_

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

By: \_\_\_\_\_

Deputy Clerk

Approved: \_\_\_\_\_

Jason Brown, County Administrator

Approved as to form and legal sufficiency: \_\_\_\_\_

Dylan T. Reingold, County Attorney

## EXHIBIT A

### AUTHORIZATION FOR PROFESSIONAL SERVICES

#### INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT ENGINEERING SERVICES FOR EVALUATION MONITORING FOR THE C&D DEBRIS LANDFILL IN 2017

CCNA-2014 WO NO. 11

This Authorization, when executed, shall be incorporated in and become part of the Continuing Contract Agreement for Professional Services between the Indian River County Solid Waste Disposal District (COUNTY), and CDM Smith Inc. (CONSULTANT), dated December 6, 2011, and the Extension and Amendment of Continuing Contract Agreement for Professional Services, dated November 4, 2014, hereafter referred to as the Contract.

### **BACKGROUND**

#### *Evaluation Monitoring*

Results of routine semi-annual monitoring of groundwater quality at the C&D Debris Landfill in January 2017 indicated that confirmed concentrations of benzene and sodium exceeded the Primary Drinking Water Standard Maximum Contaminant Levels (MCLs) in samples collected from monitor well MW-21. MW-21 is one of the 10 detection monitor wells that comprise the monitoring network for the C&D Debris Landfill. In accordance with Florida Department of Environmental Protection (FDEP) rules and the permit for the facility, the COUNTY reported the exceedances of the MCLs to the FDEP in March 2017. In a letter dated June 22, 2017, FDEP requested that the COUNTY initiate evaluation monitoring in accordance with the requirements of Chapter 62-701.510(6), Florida Administrative Code (F.A.C.). Compliance with the evaluation monitoring requirements include installation of additional monitor wells and implementation of a quarterly monitoring program for the new wells and affected existing wells.

Installation of up to two additional monitor wells, quarterly sampling of at least two monitor wells, and preparation of two reports will be performed in 2017 to meet FDEP requirements.

### **SCOPE OF SERVICES**

CONSULTANT will undertake the annual permit compliance monitoring and reporting, which will include the following tasks:

- Task 1: Project Quality Management
- Task 2: Well Installation
- Task 3: Groundwater Sampling (Quarterly Monitoring)
- Task 4: Reporting

### **TASK 1.0 – PROJECT QUALITY MANAGEMENT**

Activities performed under this task consist of those generally administrative functions required to assure that the project remains on schedule, within budget, and that the quality of the work products defined within this scope is consistent with CONSULTANT's standards and the COUNTY's expectations.

CONSULTANT will meet with COUNTY staff as necessary for project planning and coordination. Preparation of subcontractor agreements, invoices, and project administration will also be performed under this task. Included in this task are preparation of a health and safety plan, initial telephone conference with COUNTY and FDEP, and submittal of notifications to FDEP of field activities.

#### **TASK 2.0 –WELL INSTALLATION**

CONSULTANT using a subcontracted licensed well driller, will install up to two shallow monitor wells to the east of well MW-21 near the eastern boundary of the facility. The wells will be up to 25-foot deep and constructed of PVC casing with 10-feet of screen. Surface completions will include a concrete pad (2-feet X 2-inches X 6-inches) and protective aluminum casings. Drill cuttings and development water will be contained and disposed of at the facility. Locations and measuring point elevations will be surveyed by a licensed surveyor. Well installation will be overseen and documented by an engineer or geologist. Well installation is tentatively scheduled for the week of July 17, 2017.

#### **TASK 3.0 – GROUNDWATER SAMPLING (QUARTERLY MONITORING)**

CONSULTANT, using Ideal Tech Services, Inc. (ITS) as a subcontractor, will perform the initial sampling of up to two new wells and MW-21 and one quarterly sampling event in October 2017 for up to two new wells and MW-21. Initial sampling will be performed concurrently with the routine groundwater monitoring scheduled for late July 2017. CONSULTANT /ITS will coordinate with and deliver samples to COUNTY'S contract analytical laboratory. ENCO will perform the laboratory analysis under COUNTY'S contract.

#### **TASK 4.0 – REPORTING**

CONSULTANT will prepare an initial Evaluation Monitoring Report that will include information regarding the installation of the new well or wells and results of the initial sampling event. An Evaluation Monitoring Report for the second quarterly monitoring event is also included in this task. Draft reports will be submitted to the COUNTY for review and comment. The reports will be finalized and submitted to FDEP after resolution of COUNTY comments. The reports will be letter reports.

#### **ASSUMPTIONS**

- The below Scope of Services is based on regulations and monitoring and reporting requirements as of the authorization date of this Work Order. An amendment to this Work Order may be needed if there are any regulatory changes that result in additional work.
- The new groundwater monitor wells are installed prior to the July 2017 routine monitoring event for the facility.
- Initial sampling will be performed concurrently with the routine groundwater monitoring scheduled for late July 2017.
- Laboratory analysis is not included in this Work Order.

## DATA OR ASSISTANCE TO BE PROVIDED BY COUNTY

- Access to new well sites and MW-21.
- COUNTY to provide protective bollards (if desired) and identification signs after installation.

## PAYMENT AND COMPENSATION

Compensation for the Scope of Services described herein shall be made on the basis of a lump sum fee. The annual lump sum fee for Tasks 1 through 4, inclusive, is \$34,295 as shown in Exhibit B. CONSULTANT will invoice the COUNTY on a monthly basis based on percent complete of each task. For invoice purposes only, the value of each task is as shown in the **Table 1**.

**Table 1**

TASK VALUE FOR INVOICE PURPOSE		
TASK	DESCRIPTION	VALUE
1	Project Quality Management	\$9,450
2	Well Installation	\$8,245
3	Groundwater Sampling (Quarterly Monitoring)	\$4,450
4	Reporting	\$12,150
TOTAL WORK ORDER NO. 11 - LUMP SUM		\$34,295

EXHIBIT B

PROJECT BUDGET

INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT  
ENGINEERING SERVICES FOR  
EVALUATION MONITORING FOR THE C&D DEBRIS LANDFILL IN 2017

CCNA-2014 WO NO. 11

PROJECT: Evaluation Monitoring for the C&D Debris  
Landfill in 2017

CONTRACT  
REFERENCE: Agreement between the Indian River County Board of County  
Commissioners and CDM Smith Inc.

<u>Labor Category</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Senior Officer	6	\$220	\$1,320
Associate	24	\$200	\$4,800
Senior Professional	30	\$165	\$4,950
Professional II	62	\$130	\$8,060
Professional I	36	\$110	\$3,960
Staff Support	4	\$85	\$340
Project Administration	<u>20</u>	\$85	<u>\$1,700</u>
Total Hours	182		
Total Salary Cost			\$25,130
Other Direct Costs			<u>\$1,850</u>
Outside Professional Services (Drilling, Surveying, Sampling, etc.)			<u>\$7,315</u>
TOTAL LUMP SUM FEE			<u>\$34,295</u>

For the basic services under this Agreement, COUNTY agrees to pay the Consultant a lump sum fee \$34,295. CONSULTANT will submit monthly invoices based on the percent complete for the work performed.

EXHIBIT C  
PROJECT SCHEDULE  
INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT  
ENGINEERING SERVICES FOR  
EVALUATION MONITORING FOR THE C&D DEBRIS LANDFILL IN 2017  
CCNA-2014 WO NO. 11

The following project schedule has been developed based on receiving authorization on or before July 14, 2017.

<u>Task</u>	<u>Completion Date</u>
Task 1:	January 31, 2018
Task 2:	July 25, 2017
Task 3:	First Quarterly Monitoring Event      July 28, 2017 Second Quarterly Monitoring Event      October 28, 2017
Task 4:	First Quarterly Report                      September 28, 2017 Second Quarterly Report                  December 28, 2017