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December 6, 2016

Mr. Himanshu H. Mehta, P.E.  
Managing Director  
Indian River County  
Solid Waste Disposal District  
1325 74th Avenue SW  
Vero Beach, Florida 32960

Subject: Permit Compliance Assistance for the Calendar Year 2017  
Indian River County Solid Waste Disposal District  
CDM Smith CCNA-2014 WO NO. 7

Dear Mr. Mehta:

Transmitted herewith is one copy of CCNA-2014 WO No. 7 to provide selected annual operating permit compliance assistance services, which are required by the Florida Department of Environmental Protection (FDEP) during calendar year 2017. The services provided in this work order include semi-annual sampling and reporting, Title V permit compliance and reporting, and general technical and miscellaneous permit compliance reporting. The Scope of Services, Project Budget, and Project Schedule are provided herewith as Exhibits A, B, and C, respectively.

If you have any questions or require additional information, please call me at your convenience.

Sincerely,

Kevin N. Vann, P.E., BCEE  
Principal Environmental Engineer  
CDM Smith Inc.

Approved by:

Eric J. Grotke, P.E., BCEE  
Vice President  
CDM Smith Inc.

KNV/EJG/jj  
Attachments  
File: 0000-EJGMK-MG.IRC

cc: Vincent Burke, IRC





## EXHIBIT A

### AUTHORIZATION FOR PROFESSIONAL SERVICES

#### INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT ENGINEERING SERVICES FOR 2017 PERMIT COMPLIANCE MONITORING AND REPORTING

CCNA-2014 WO NO. 7

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**

##### ***Solid Waste Operation Permit Water Quality Compliance***

Semi-annual reports of groundwater quality at the COUNTY Landfill must be submitted to the Florida Department of Environmental Protection (FDEP) in accordance with Chapter 62-701.510, Florida Administrative Code (F.A.C.) and the Water Quality Monitoring Plan (WQMP) included as Appendix 3 of Permit Nos. SC31-0128769-022-SC and SO31-0128769-023-SO for the Class I landfill and the Monitoring Plan Implementation Schedule (MPIS) dated January 5, 2016, which includes the construction and demolition (C&D) debris landfill.

Two semi-annual monitoring reports that document the sampling events will be required in calendar year 2017.

Semi-annual sampling of the Class I and C&D debris landfill groundwater monitor wells shall be performed in January and July of 2017. The samples collected from the Class I monitoring wells during these events will be analyzed for the routine monitoring parameters listed in Paragraph II.7 of the WQMP and Chapter 62-701.510(7)(a), F.A.C. The samples collected from the C&D landfill monitoring wells will be analyzed for the routine monitoring parameters listed in Chapter 62-701.730(8)(c), F.A.C. and Paragraph 9 of the MPIS dated March 7, 2011. In total, 39 wells (29 Class I and 10 C&D) will be sampled in January and 26 wells (16 Class I and 10 C&D) will be sampled in July. Samples from one surface water site shall be collected in January and July, if water is discharging from the stormwater pond. The samples, if collected, will be analyzed for the parameters listed in Paragraph III.12 of the WQMP and Chapter 62-701.510(7)(d), F.A.C.

All laboratory analyses will be performed by the COUNTY contract laboratory (ENCO).

##### ***Title V Operation Permit Air Quality Compliance***

The COUNTY Landfill also operates under a Title V permit (Permit No. 0610015-004-AV) issued on July 16, 2012, which contains monitoring and reporting requirements related to the landfill gas collection and control system. The COUNTY is required to prepare and submit the following to FDEP and the U.S. Environmental Protection Agency (USEPA), Region 4:

- Annual Statement of Compliance (within 60 days after the end of the calendar year);
- Annual Operating Report (on or before April 1 of the following year); and
- Results of an annual flare visible emissions test (within 45 days of testing).

Effective December 31, 2013, the Major Air Pollution Source Annual Emissions Fee is calculated by FDEP's Electronic Annual Operating Report (EAOR) application that is used to produce the Annual Operating Report listed above. The emissions fee for 2016 is due by April 1, 2017.

## **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: Semi-Annual Water Quality Sampling and Reporting

Task 3: Title V Permit Compliance and Reporting; and

Task 4: General Technical and Miscellaneous Permit Compliance Reporting

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 Scope of Services may be needed if there are any regulatory changes that result in additional work.

### **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 maintains a Quality Management System (QMS) on all projects. The CONSULTANT will comply with its QMS, which includes independent review of deliverables, monthly project status reviews, and project close-out activities. CONSULTANT will meet with COUNTY staff for project planning and coordination, as needed. CONSULTANT's project manager will attend status reporting meetings as needed throughout the life of the project. Preparation of invoices and project administration will also be performed under this task.

### **TASK 2.0 –SEMI-ANNUAL WATER QUALITY SAMPLING AND REPORTING**

CONSULTANT will assist COUNTY with all sampling preparation activities, including scheduling, staffing, subcontracting, and field equipment preparation. CONSULTANT will perform the field testing, sample collection, and water-level measurements. CONSULTANT will contract with Ideal Tech Services Inc. (ITS) to perform the groundwater and surface water sampling. Prior to collecting groundwater samples in January and July, 2017, CONSULTANT/ITS will collect water level data from 58 groundwater monitor wells and 1 staff gauge (SG-12). CONSULTANT/ITS will perform semi-annual sampling of the Class I and C&D debris landfill groundwater monitor wells in January (39 wells) and July (26 wells) of 2017.

CONSULTANT/ITS will also perform semi-annual (January and July) sampling of the surface water site, if discharging.

It is estimated that data collection and sampling will take four days to complete in January and three days to complete in July. In the event that FDEP requires resampling of groundwater

monitoring wells, the labor and materials will be invoiced under Task 4 of this Scope of Services. If the resampling is the result from errors made by the sampling staff, the COUNTY will not be invoiced. CONSULTANT/ITS will deliver the samples to the COUNTY contract laboratory (ENCO) Orlando office for analysis.

Unless otherwise determined by the COUNTY, ENCO will perform the laboratory analysis under the COUNTY's contract. CONSULTANT will assist the COUNTY in coordinating the analytical testing activities with ENCO, notify FDEP prior to sampling as required by the MPIS, review and evaluate the analytical test results, and prepare the semi-annual reports.

CONSULTANT will prepare a semi-annual report for each of the two monitoring events that will be submitted to FDEP within 60 days of receipt of valid laboratory results from the laboratory that is contracted by the COUNTY to analyze samples. Services included in preparing the semi-annual reports entail:

- Review of laboratory results with respect to FDEP groundwater quality criteria and historical laboratory results. If review of the data indicates potential errors in the results or concentrations of analyses that could potentially result in enforcement action, CONSULTANT will notify the COUNTY prior to preparing the report and request confirmatory samples, if needed.
- Preparation of semi-annual monitoring reports for the January and July monitoring events. The reports will include brief discussions of the results, water level contour maps, and copies of the analytical reports. A draft report will be submitted for review, if requested.
- CONSULTANT will provide the final report in portable document file (PDF) format and analytical data in ADaPT format for submittal to FDEP in accordance with Paragraph V.7 of the WQMP.

### **TASK 3.0 – TITLE V PERMIT COMPLIANCE AND REPORTING**

Title V Permit No. 0610015-004-AV, which is the current permit as of the date of this work order, contains monitoring and reporting requirements related to the landfill gas collection and control system. CONSULTANT will assist COUNTY, as described below, in fulfilling all air permit requirements and conditions within the required regulatory timeframes.

#### Statement of Compliance

CONSULTANT will prepare and submit the annual Statement of Compliance for the COUNTY Landfill. This document must be submitted to FDEP within 60 days after the end of the calendar year, as required by Rule 62-213.440(3)(a)(2), F.A.C.

#### Electronic Annual Operating Report (EAOR)

CONSULTANT will prepare and submit the EAOR for the COUNTY Landfill. This report must be submitted to FDEP on or before April 1 of each calendar year, as required by Rule 62-210.370(3), F.A.C.

CONSULTANT will estimate the annual emission rates of non-methane organic compounds and volatile organic compounds from the landfill gas to determine the COUNTY's status with regard to operation and reporting requirements of the active landfill gas collection and control system under the New Source Performance Standards requirements.

### Annual Emissions Fee

The EAOR application used for reporting to FDEP will automatically calculate the annual emission fee for the facility. CONSULTANT will notify COUNTY of the fee amount. Once the check is in-hand, CONSULTANT will submit the fee on COUNTY's behalf prior to the April 1 deadline.

### Visible Emissions Testing

CONSULTANT will contract with a certified observer to perform the annual visible emissions test in order to determine the opacity of the flare. CONSULTANT will notify FDEP of the time and location of the test, provide oversight of the annual visible emissions testing of the flare, and prepare and submit to FDEP a report of the test results. The flare test will be completed no later than September 30, 2017, in accordance with the permit.

### **TASK 4.0 – GENERAL TECHNICAL AND MISCELLANEOUS PERMIT COMPLIANCE REPORTING**

CONSULTANT will provide general technical and permit compliance assistance to COUNTY staff on an as needed basis. COUNTY staff is performing a number of the tasks required annually by the current FDEP landfill permits. CONSULTANT will provide support as needed for the COUNTY staff as they perform these tasks.

General technical and permit compliance assistance tasks may include:

- Reporting required by the Multi-Sector Generic Permit for stormwater discharge;
- Quarterly monitoring and reporting of the landfill gas monitoring wells located at the COUNTY Landfill site boundary, as well as enclosed structures located on site;
- Preparing agenda items for and attending Board of County Commissioners meetings;
- Developing annual COUNTY budgets;
- Miscellaneous permit renewals or technical support;
- Sampling and reporting for additional monitor wells, surface water, leachate, etc.; and
- Assistance in developing a WQMP for the C&D debris landfill.

### **ASSUMPTIONS**

- This Scope of Services and cost proposal is based on solid waste operations Permit Nos. SC31-0128769-022-SC and SO31-0128769-023-SO and the groundwater monitor wells and surface water monitor sites that are included in the WQMP for the Class I landfill and the MPIS for the C&D debris landfill.
- Laboratory analysis is not included in this Scope of Services.
- Title V compliance requirements will not change with the air permit renewal. This Scope of Services and cost proposal is based on the Title V Permit No. 0610015-004-AV, which is the current permit as of the date of this work order and expires on July 15, 2017.
- Tasks 1 and 2 do not include meetings with the Florida Department of Environmental Protection.
- The semi-annual data for the Class I landfill and C&D debris landfill will be submitted as a combined single report.
- Valid laboratory analytical results are received in January and July.
- Sampling of C&D wells will be completed under existing MPIS requirements.
- Flare visible emissions test completed no later than September 30, 2017.

### **DATA OR ASSISTANCE TO BE PROVIDED BY COUNTY**

- Existing data available on construction of the existing groundwater monitor wells.
- Available site surveys.

- Available record information.
- Laboratory analytical reports and direct access to laboratory personnel.
- COUNTY contract laboratory will provide copies of analytical reports in electronic format (ADaPT) and in PDF format.
- Access to sampling sites.
- Maintenance of wells and staff gauge.
- Annual operations data needed for emissions estimating including, but not limited to, tonnages of waste accepted, quantity of landfill gas collected, and hours of emergency engine operation.
- Annual emissions fee.

**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 1.0 through 4.0, inclusive, is \$99,193 as shown in Exhibits 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**

<b>TASK VALUE FOR INVOICE PURPOSE</b>		
<b>TASK</b>	<b>DESCRIPTION</b>	<b>VALUE</b>
1	Project Quality Management	\$23,300
2	Semi-Annual Water Quality Sampling and Reporting	\$42,703
3	Title V Permit Compliance and Reporting	\$18,040
4	General Technical and Miscellaneous Permit Compliance Reporting	\$15,150
<b>TOTAL WORK ORDER NO. 7 - LUMP SUM</b>		<b>\$99,193</b>

EXHIBIT B

PROJECT BUDGET

INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT  
ENGINEERING SERVICES FOR  
2017 PERMIT COMPLIANCE MONITORING AND REPORTING

CCNA-2014 WO NO. 7

PROJECT: IRC SWDD Annual Permit Compliance  
Monitoring Reporting Services

DESCRIPTION: Task 1.0 – Project Quality Management

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>
Sr. Officer	8	\$220	\$1,760
Associate	2	\$200	\$400
Principal	60	\$195	\$11,700
Senior Professional	24	\$165	\$3,960
Professional II	24	\$130	\$3,120
Project Administration	<u>16</u>	\$85	<u>\$1,360</u>
Total Hours	134		
Total Salary Cost			\$22,300
Other Direct Costs			<u>\$1,000</u>
TOTAL LUMP SUM FEE			<u>\$23,300</u>

For the basic services under this Agreement, COUNTY agrees to pay the Consultant a lump sum fee \$23,300. CONSULTANT will submit monthly invoices based on the percent complete for the work performed.



EXHIBIT B

PROJECT BUDGET

INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT  
ENGINEERING SERVICES FOR  
2017 PERMIT COMPLIANCE MONITORING AND REPORTING

CCNA-2014 WO NO. 7

PROJECT: IRC SWDD Annual Permit Compliance  
Monitoring Reporting Services

DESCRIPTION: Task 2.0 – Semi-Annual Water Quality Sampling and Reporting

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>
Sr. Officer	10	\$220	\$2,200
Associate	6	\$200	\$1,200
Principal	50	\$195	\$9,750
Senior Professional	48	\$165	\$7,920
Professional II	40	\$130	\$5,200
Professional I	20	\$110	\$2,200
Senior Support	6	\$120	\$720
Staff Support	12	\$85	\$1,020
Project Administration	<u>16</u>	\$85	<u>\$1,360</u>
Total Hours	208		
Total Salary Cost			\$31,570
Other Direct Costs			<u>\$1,900</u>
Outside Professional Services (Ideal Tech Services, Inc.)			<u>\$9,233</u>
TOTAL LUMP SUM FEE			<u>\$42,703</u>

For the basic services under this Agreement, COUNTY agrees to pay the Consultant a lump sum fee of \$42,703. CONSULTANT will submit monthly invoices based on the percent complete for the work performed.

EXHIBIT B

PROJECT BUDGET

INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT  
ENGINEERING SERVICES FOR  
2017 PERMIT COMPLIANCE MONITORING AND REPORTING

CCNA-2014 WO NO. 7

PROJECT: IRC SWDD Annual Permit Compliance  
Monitoring Reporting Services

DESCRIPTION: Task 3.0 – Title V Permit Compliance and Reporting

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>
Sr. Officer	4	\$220	\$880
Associate	4	\$200	\$800
Principal	12	\$195	\$2,340
Senior Professional	40	\$165	\$6,600
Professional II	22	\$130	\$2,860
Professional I	8	\$110	\$880
Senior Support	2	\$120	\$240
Staff Support	6	\$85	\$510
Project Administration	8	\$85	\$680
Total Hours	106		
Total Salary Cost			\$15,790
Other Direct Costs			<u>\$750</u>
Outside Professionals (TRC Environmental)			<u>\$1,500</u>
TOTAL LUMP SUM FEE			<u>\$18,040</u>

For the basic services under this Agreement, COUNTY agrees to pay the Consultant a lump sum fee \$18,040. CONSULTANT will submit monthly invoices based on the percent complete for the work performed.

EXHIBIT B

PROJECT BUDGET

INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT  
ENGINEERING SERVICES FOR  
2017 PERMIT COMPLIANCE MONITORING AND REPORTING

CCNA-2014 WO NO. 7

PROJECT: IRC SWDD Annual Permit Compliance  
Monitoring Reporting Services

DESCRIPTION: Task 4.0 – General Technical and Miscellaneous Permit Compliance  
Reporting

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>
Sr. Officer	14	\$220	\$3,080
Associate	4	\$200	\$800
Principal	20	\$195	\$3,900
Senior Professional	16	\$165	\$2,640
Professional II	14	\$130	\$1,820
Professional I	12	\$110	\$1,320
Senior Support	2	\$120	\$240
Staff Support	4	\$85	\$340
Project Administration	<u>6</u>	\$85	<u>\$510</u>
Total Hours	92		
Total Salary Cost			\$14,650
Other Direct Costs			<u>\$500</u>
TOTAL LUMP SUM FEE			<u>\$15,150</u>

For the basic services under this Agreement, COUNTY agrees to pay the Consultant a lump sum of \$15,150. 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  
2017 PERMIT COMPLIANCE MONITORING AND REPORTING

CCNA-2014 WO NO. 7

The following project schedule has been developed based on receiving authorization on or before January 1, 2017.

<u>Task</u>	<u>Completion Date</u>
Task 1:	January 1, 2017 through December 31, 2017
Task 2:	Sampling events: January 2017 and July 2017: report submittals March 2017 and October 2017 (Includes sampling events, review and validation of results, and completion/submittal of reports within 60 days of receipt of laboratory analysis)
Task 3:	Statement of Compliance                      March 1, 2017 Electronic Annual Operating Report      April 1, 2017 Annual Emissions Fee                          April 1, 2017 Visible Emissions Test                        September 30, 2017
Task 4:	January 1, 2017 through December 31, 2017