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August 27, 2018

VIA EMAIL

Mr. Himanshu H. Mehta, P.E.
Managing Director
Indian River County
Solid Waste Disposal District
1325 74th Avenue SW
Vero Beach, Florida 32968

Subject: Indian River County Solid Waste Disposal District
Water Quality Technical Report
Final Invoice

Dear Mr. Mehta:

Transmitted herewith is a project completion report for the above referenced project. This work was completed in accordance with the Continuing Contract Agreement for Professional Services between Indian River County (IRC) Solid Waste Disposal District (SWDD) and CDM Smith Inc. (CDM Smith), dated April 17, 2018, under Work Order No. CCNA2018-WO No. 1 dated June 5, 2018. This project completion report is to serve as additional information to the final invoice (Invoice No. 90053335).

Technical Reports of groundwater quality at the IRC Class I and Construction and Demolition (C&D) Landfills 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 Plans (WQMPs) of operations Permit Nos. 0128769-023-SO (Class I) and 0128769-025-SO-024 (C&D). By rule, the Technical Reports are due every two and one-half years and cover water quality data collected for the previous five routine water quality monitoring events. The WQMPs state that the Technical Report that will be prepared under this Authorization will include five monitoring events performed from January 2016 through January 2018 in accordance with the current rule. However, because the last Technical Report prepared in May 2015 was prepared under the previous rule that required a Technical Report after four monitoring events and permitting for the Class I Landfill was in progress, the July 2015 monitoring event was not included. As discussed with FDEP during the permitting process, this Technical Report will include the July 2015 monitoring event.



This project included preparing the required water quality report under the following task:

■ Task 1.0 – Water Quality Technical Report

TASK 1.0 – Water Quality Technical Report

Under this task, CDM Smith prepared and submitted the technical report in accordance with the WQMPs and Chapter 62-701.510(8)(b), F.A.C. The report was based on laboratory data received from the County for the July 2015, January 2016, July 2016, January 2017, July 2017, and January 2018 semi-annual monitoring events. The report included:

1. Tabular displays of any data which shows that a monitoring parameter has been detected, and graphical displays of any leachate key indicator parameters detected (such as pH, specific conductance, Total Dissolved Solids (TDS), TOC, sulfate, chloride, sodium and iron), including hydrograph for all monitor wells;
2. Trend analyses of any monitoring parameters consistently detected;
3. Comparisons among shallow, middle, and deep zone wells;
4. Comparisons between background water quality and the water quality in detection and compliance wells;
5. Correlations between related parameters such as total dissolved solids and specific conductance;
6. Discussion of erratic and/ or poorly correlated data;
7. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
8. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

CDM Smith performed a technical specialist review of the draft Technical Report prior to submittal to the FDEP. The draft report was submitted to IRC on July 26, 2018. Comments were received on July 31, 2018 from IRC and incorporated into the report. The final report was submitted to FDEP on July 31, 2018.



Mr. Himanshu H. Mehta, P.E.
August 27, 2018
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CDM Smith appreciates the opportunity to provide these services to the IRC SWDD. If you have any questions or require additional information on the above project, please contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Amy M. Hightower'.

Amy M. Hightower, P.E.
Project Manager
CDM Smith Inc.

AMH/jj
File: PW_PL1_6706-229857.02.01

cc. Kevin Vann, P.E, BCEE





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 Boca Raton, Florida 33487
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Please Remit To:
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 PO Box 100902
 Atlanta GA 30384-0902

INDIAN RIVER COUNTY FLORIDA
 HIMANSHU H. MEHTA
 1325 74th AVENUE S.W.

 VERO BEACH FL 32968

Account Number: 000200418081
 Wire Routing: 011000138
 Invoice Number: 90053335
 Invoice Date: 08/18/2018
 Project Number: 229857

Amount Due: \$18,996.00

PLEASE INCLUDE INVOICE NUMBER ON ALL CORRESPONDENCE

Services from July 15, 2018 to August 11, 2018 - FINAL INVOICE

In accordance with the Continuing Consulting Engineering Services Agreement for Professional Services dated April 17, 2018 and CCNA2018 Work Order No. 1, dated June 5, 2018, between Indian River County Solid Waste Disposal District (COUNTY), and CDM Smith Inc. (CONSULTANT), we are rendering the following invoice for Professional Engineering Services as described below:

229857-2018 WATER QUALITY TECH REPORT

Description	Amount
Contract Amount	\$31,660.00
Lumpsum Amount	\$31,660.00
Percent Complete	100.00%
Billed ITD	\$31,660.00
Less Previously Billed	\$12,664.00
Total	\$18,996.00
Amount Due	\$18,996.00