



1701 Highway A-1-A, Suite 301  
Vero Beach, Florida 32963  
tel: 772-231-4301  
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February 7, 2017

VIA EMAIL

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

Subject: Indian River County Solid Waste Disposal District  
2016 Annual Permit Compliance and Monitoring  
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 December 6, 2011 and extended on November 4, 2014, under Work Order No. CCNA2014-WO No. 6 dated January 19, 2016. This project completion report is to serve as additional information to the final invoice (Invoice No. 90008928).

IRC SWDD is required to perform environmental compliance monitoring and reporting for water and air quality in accordance with the IRC Landfill's operating permits. During calendar year 2016, IRC SWDD was required to submit semi-annual reports of groundwater and surface water quality at the IRC Landfill to the Florida Department of Environmental Protection (FDEP). This was done in accordance with Chapter 62-701.510, F.A.C., the Solid Waste Operation Permit for the Class I landfill (Permit No. 0128769-024-SO-MM) modified by the FDEP on January 14, 2016 [which includes by reference the Water Quality Monitoring Plan (WQMP) for the Class I landfill in Appendix 3 of the permit], and the Solid Waste Operation Permit for the construction and demolition (C&D) landfill (Permit No. SO31-0128769-021) dated September 17, 2012 [which includes by reference the Monitoring Plan Implementation Schedule (MPIS) revised March 7, 2011, in Appendix 3 of the permit].

The IRC Landfill operates under a Title V Air Operation Permit (Permit No. 0610015-004-AV), which was issued on July 16, 2012, that contains monitoring and reporting requirements related to



the landfill gas collection and control system. IRC SWDD is required to prepare and submit the following to FDEP and the U.S. Environmental Protection Agency (USEPA), Region 4:

- Annual Statement of Compliance
- Annual Operating Report
- Annual Emissions Fee
- Visible Emissions Test

IRC SWDD is also required to perform miscellaneous sampling and monitoring activities in compliance with the solid waste operation permits and the Multi-Sector Generic Permit (MSGP) for stormwater discharge (FLR05G035-003).

This project included providing the required permit compliance and monitoring services under the following tasks:

- Task 1.0 - Project Quality Management
- Task 2.0 - Semi-Annual Water Quality Sampling and Reporting
- Task 3.0 - Title V Permit Compliance and Reporting
- Task 4.0 - General Technical and Miscellaneous Permit Compliance Assistance

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

Activities performed under this task consisted of those generally administrative functions required to assure that the project remained on schedule, within budget, and that the quality of the work products defined within this scope was consistent with CDM Smith's standards and IRC SWDD's expectations.

CDM Smith coordinated with IRC SWDD staff for project planning. Preparation of invoices and project administration was also performed under this task.

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

Under this task, CDM Smith assisted IRC SWDD with the semi-annual water quality sampling, monitoring, and reporting in accordance with Chapter 62-701.510, F.A.C. CDM Smith contracted with Ideal Tech Service, Inc. (ITS) to perform the groundwater and surface water sampling. The

samples were analyzed by Environmental Conservation Laboratories, Inc. (ENCO) under contract to IRC SWDD.

Water quality monitoring at the Class I landfill was performed pursuant to Specific Condition D of the Solid Waste Operation Permit for the Class I landfill (Permit No. 0128769-024-SO-MM) modified by the FDEP on January 14, 2016. The samples collected from the Class I monitoring wells were analyzed for the routine monitoring parameters listed in Paragraph II.7 of the WQMP and Chapter 62-701.510(7)(a), F.A.C. Water quality monitoring at the C&D landfill was performed pursuant to Specific Condition D of Solid Waste Operation Permit for the C& D landfill (Permit No. SO31-0128769-021), dated September 17, 2012. The samples collected from the C&D landfill monitoring wells were analyzed for the routine parameters listed in Chapter 62-701.730(8)(c), F.A.C. and Paragraph 9 of the Monitoring Plan Implementation Schedule (MPIS) revised on March 7, 2011.

The January 2016 semi-annual sampling event was conducted from January 26 to 28, 2016. For this event, groundwater samples were collected from the 12 Class I landfill wells designated for semi-annual monitoring, the 13 additional Class I landfill wells designated for annual monitoring, and the 10 C&D landfill wells. A surface water sample was collected from the designated surface water sampling location. Water levels were measured in 54 monitor wells. A surface water level measurement was not taken because Staff Gauge No. 12 was broken.

The July 2016 event was conducted from July 13 to July 15, 2016. For this event, groundwater samples were collected from the 14 Class I landfill wells designated for semi-annual monitoring, the 10 C&D landfill wells, and four new Class I landfill wells. A surface water sample was collected from the designated surface water sampling location. Water levels were measured in 58 monitor wells and a surface water measurement was taken at Staff Gauge No. 12.

CDM Smith assisted IRC SWDD in coordinating the analytical testing activities with ENCO, notified the FDEP prior to sampling, reviewed and evaluated the analytical test results, and prepared the semi-annual reports. The January 2016 Water Quality Monitoring Report was submitted to the FDEP on March 23, 2016 and the July 2016 Water Quality Monitoring Report was submitted to the FDEP on September 14, 2016.

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

The Title V Air Operation Permit (Permit No. 0610015-004-AV) for the IRC Landfill contains monitoring and reporting requirements related to the landfill gas collection and control system. In accordance with the Title V permit, CDM Smith assisted IRC SWDD, as described below, in fulfilling all air permit requirements and conditions within the required regulatory timeframes.





Mr. Himanshu H. Mehta, P.E.

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#### Statement of Compliance

CDM Smith prepared and submitted the Statement of Compliance for the reporting period of January through December of 2015 for the IRC Landfill to the FDEP on February 23, 2016 in accordance with Rule 62-213.440(3)(a)(2), F.A.C.

#### Electronic Annual Operating Report (EAOR)

CDM Smith prepared and submitted the 2015 reporting year EAOR for the IRC Landfill to the FDEP on March 30, 2016.

#### Annual Emissions Fee

CDM Smith prepared and submitted the 2015 reporting year Title V fee to the FDEP on March 30, 2016.

#### Visible Emissions Testing

CDM Smith contracted with TRC Environmental Corporation to perform the 2016 annual visible emissions test in order to determine the opacity of the flare. The 2016 visible emissions test was performed on August 5, 2016 and submitted to the FDEP on August 29, 2016.

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

CDM Smith provided general technical and permit compliance assistance to IRC SWDD staff on an as needed basis. Under this task, CDM Smith performed quarterly monitoring of the landfill gas migration monitoring wells located at the IRC Landfill site boundary, as well as enclosed structures located on site, and submitted reports of the results to the FDEP. The reports were submitted to the FDEP on March 22, 2016, June 28, 2016, September 19, 2016, and December 13, 2016.

CDM Smith provided general technical assistance for the Year 2 monitoring period of the Multi-Sector Generic Permit (MSGP) for stormwater discharge. CDM Smith collected analytical samples after qualifying storm events and sent them to be tested by ENCO for the pollutants of concern listed in Sector L of the MSGP. Samples were collected and sent to ENCO for analysis on February 29, 2016, May 19, 2016, August 5, 2016, September 9, 2016, September 20, 2016, October 10, 2016, and December 12, 2016.

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.





Mr. Himanshu H. Mehta, P.E.  
February 7, 2017  
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Sincerely,

A handwritten signature in blue ink, appearing to read 'K. Vann', with a long horizontal flourish extending to the right.

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

KNV/KKW/jj  
File: PW\_PL1\_6706-112684.02.01





621 N.W. 53rd Street, Suite 265  
 Boca Raton, Florida 33487  
 Tel: 561 571-3800  
 Fax: 561 241-7084

Please Remit To:  
 CDM Smith Inc.  
 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: /90008928  
 Invoice Date: 01/26/2017  
 Project Number: 112684

**Amount Due: \$3,772.10**

*PLEASE INCLUDE INVOICE NUMBER ON ALL CORRESPONDENCE*

**Services from December 18, 2016 to January 14, 2017 - FINAL INVOICE**

In accordance with the Continuing Contract Agreement for Professional Services, dated December 6, 2011, Extension and Amendment of Continuing Contract Agreement for Professional Services, dated November 4, 2014 and CCNA -2014 Work Order No. 6, dated January 19, 2016 between Indian River County and CDM Smith Inc., we are rendering the following invoice for Professional Engineering Services as described below:

RE: 2016 PERMIT COMPLIANCE MONITORING AND REPORTING

**PM-TASK 1 - PROJECT QUALITY MANAGEMENT**

Description	Amount
Contract Amount	\$20,620.00
Percent Complete	100.00%
Billed ITD	\$20,620.00
Less Previously Billed	\$20,620.00
Total	\$0.00
Amount Due	\$0.00



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RE: 2016 PERMIT COMPLIANCE MONITORING AND REPORTING

**WQSEMIANNUAL-TASK 2 -SEMI-ANNUAL WATER QUALITY SAMPLING & RPTNG**

Description	Amount
Contract Amount	\$41,070.00
Percent Complete	100.00%
Billed ITD	\$41,070.00
Less Previously Billed	\$41,070.00
Total	\$0.00
Amount Due	\$0.00



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RE: 2016 PERMIT COMPLIANCE MONITORING AND REPORTING

**TITLE V-TASK 3 -TITLE V PERMIT COMPLIANCE & REPORTING**

Description	Amount
Contract Amount	\$16,310.00
Percent Complete	100.00%
Billed ITD	\$16,310.00
Less Previously Billed	\$16,310.00
Total	\$0.00
Amount Due	\$0.00





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RE: 2016 PERMIT COMPLIANCE MONITORING AND REPORTING

**GTS-TASK 4 -GENERAL TECHNICAL & MISC PERMIT COMPLIANCE**

Description	Amount
Contract Amount	\$15,090.00
Percent Complete	100.00%
Billed ITD	\$15,090.00
Less Previously Billed	\$11,317.90
Total	\$3,772.10
Amount Due	\$3,772.10



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RE: 2016 PERMIT COMPLIANCE MONITORING AND REPORTING

**112684-2016 PERMIT COMPLIANCE WO-6**

Description	Amount
Contract Amount	\$93,090.00
Percent Complete	100.00%
Billed ITD	\$93,090.00
Less Previously Billed	\$89,317.90
Total	\$3,772.10
Amount Due	\$3,772.10