

Received by SWDD



JUN 21 2017

Indian River County  
Landfill

1200 Riverplace Blvd., Suite 710  
Jacksonville, Florida 32207  
PH 904.858.1818  
FAX 904.396.1143  
www.geosyntec.com

21 June 2017

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

**Subject: Project Management Completion Report and Transmittal of Invoice No. 124321504  
IRC – 2016 Title V Air Operation Permit Renewal Application  
IRC Work Authorization No. CCNA-2014-Work Order No. 5  
Indian River County Landfill Facility, Vero Beach, Florida**

Dear Mr. Mehta:

## INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) is pleased to present to you this project completion report for Geosyntec Project No. FL2914 - 2016 Title V Air Operation Permit Renewal Application for the Indian River County Landfill Facility. This project was completed under Work Order No. CCNA-2014-Work Order No. 5 authorized on October 18, 2016, pursuant to that certain Continuing Contract Agreement for Professional Services, dated November 15, 2011, and that certain Extension and Amendment of Continuing Contract Agreement for Professional Services entered 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 Geosyntec ("Consultant"). This report has been prepared as a supplement to our final invoice No. 124321504, dated 21 June 2017.

## SCOPE OF WORK

The scope of work authorized under Work Order No. CCNA-2014-Work Order No. 5 was divided into four phases: (i) general consulting/meeting support/project management; (ii) Tier 2 testing and reporting; (iii) Title V Air Operation Permit Renewal Application; and (iv) response to regulatory comments. The following is a phase by phase summary of the work that Geosyntec performed under this Work Order.

FL2914-01/JL17017A.doc

### **Phase 1 – General Consulting/Meeting Support/Project Management**

Under this phase, Geosyntec performed project planning and management responsibilities, such as meetings and correspondences with SWDD, Republic, and FDEP Division of Air Resources Management (FDEP-DARM); invoice review and preparation; project coordination; and project administration.

### **Phase 2 – Tier 2 Testing and Reporting**

Under this phase, Geosyntec developed a test plan, directed the field sampling and laboratory analysis, and performed data evaluation and reporting to estimate the concentration of non-methane organic compounds (NMOC) in landfill gas generated by the IRC Class I landfill. Landfill gas sampling was performed on October 20 and 21, 2016 by the TRC, Air Measurement Group, Gainesville, Florida, under subcontract to Geosyntec. The sampling event was monitored by representatives of SWDD and Geosyntec to verify compliance with FDEP rules. The samples were subsequently analyzed by TRC laboratory and the analyses results were used by Geosyntec to calculate the annual uncontrolled emission of NMOC (see Phase 3 below).

### **Phase 3 – Title V Air Operation Permit Renewal Application**

Under this phase, Geosyntec completed an application for a 5-year renewal of Title V Air Operation permit for the Indian River County (IRC) landfill in accordance with Section 62-210.900 of Florida Administrative Code (F.A.C). The application provided an estimate for the uncontrolled emission of non-methane organic compound (NMOC) for the calendar year 2016 of 22.43 Mg/year, based on the results of the Tier 2 analysis (see Phase 2 above). Landfill facilities having an annual emission of NMOC below 50 Mg/year, by USEPA rules and regulations, are not required to install a landfill gas collection and control system (GCCS). Since IRC landfill is equipped with a voluntary GCCS, it is exempt from complying with the applicable costly requirements of the New Source Performance Standards (NSPS) that are the obligations of mandatory systems.

### **Phase 3 – Response to Regulatory Comments**

Under this phase, Geosyntec monitored the progress of the permit application review and responded to requests for additional information (RAIs) by FDEP-DARM. The application was received by FDEP-DARM, Tallahassee on December 2, 2016. Geosyntec worked with SWDD in responding to RAIs from FDEP-DARM, which included, among others, preparation of an Air

Mr. Himanshu H. Mehta, P.E.  
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Construction Permit Application and sampling and laboratory testing of landfill gas (LFG) for total reduced sulfur.

On March 3, 2017, the FDEP-DARM issued to SWDD draft permits (Air Construction and Title V Air Operation) for review and an advertisement for publishing in a local newspaper. The advertisement informed the public that FDEP-DARM intends to issue the permits to the SWDD landfill and solicit comments from the public. Copies of the application and the proposed permits were also submitted to the Environmental Protection Agency (EPA), Atlanta District for review and comments. The review period was limited to 45 days and in the absence of comments by either the EPA and/or the public, the FDEP-DARM issued the final Air Construction Permit (No. 0610015-006-AC) on March 24, 2017 and the final Title V Air Operation Permit Renewal (No. 0610015-005-AV) on June 01, 2017.

#### **BUDGET**

The approved budget for Work Order No. CCNA-2014-Work Order No. 5 was \$64,107.00. The total invoiced amount, including the final invoice is \$64,091.47. Therefore, Geosyntec completed this project within the approved budget.

#### **CLOSURE**

Geosyntec appreciates the opportunity to provide services to Indian River County. If you have any question regarding this correspondence, please feel free to contact the undersigned at (904) 858-1818.

Sincerely



Kwasi Badu-Tweneboah, Ph.D., P.E.  
Principal Engineer

Enclosure: Invoice No. 124321504

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21 June 2017

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

**Subject: Project Management Report and Transmittal of Invoice No. 124321504  
IRC – 2016 Title V Air Operations Permit Renewal Application  
Indian River County Landfill Facility**

Dear Mr. Mehta:

Geosyntec Consultants (Geosyntec) prepared this project management report to address the professional services for the Title V Air Operations Permit Renewal Application for the Class I landfill at the Indian River County (IRC) landfill facility. This report presents: (i) a budget overview for this project; (ii) a summary of activities completed to date; (iii) a discussion of the work reflected on the enclosed invoice; (iv) a discussion of ongoing work; and (v) recommended actions for the site. The enclosed invoice reflects work that was performed through 11 June 2017. Table 1 provides invoicing detail for the project.

#### **PROJECT MANAGEMENT SUMMARIES**

**Geosyntec's Project No. FL2914: 2016 Title V Air Operations Permit Renewal Application – Indian River County Landfill Facility (IRC Work Authorization No. CCNA-2014-Work Order No. 5)**

#### ***Budget Overview***

Invoice No. 124321504 (enclosed) dated 21 June 2017 for \$685.47<sup>✓</sup> is the 7<sup>th</sup> and final invoice for Project No. FL2914. Listed below is a summary of the budget, including invoiced amount and remaining budget.

Approved Budget:	\$64,107.00
Invoiced Amount:	\$64,091.47
Remaining Budget	\$ 15.53

Geosyntec is within the budget appropriated for this project.

Mr. Himanshu H. Mehta, P.E.  
21 June 2017  
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### **WORK COMPLETED TO DATE**

The tasks performed under this invoice include communications with SWDD and FDEP Division of Air Resources Management (DARM) on the Title V permit renewal application, review of proposed and FINAL Title V Air Operation permit, and project management, including invoicing.

### **WORK REFLECTED ON ENCLOSED INVOICE**

Labor reflected on the enclosed invoice is mainly attributed to the following:

- Labor indicated as professional services (\$665.00) is associated with communications with SWDD and FDEP-DARM, review of proposed and FINAL Title V Air Operation permit issued by DARM, and project management, including invoicing.
- Other expenses are associated with communications fee (\$19.97).

### **ONGOING WORK**

FDEP-DARM issued a proposed Title V Air Operation Permit for the facility on April 13, 2017. Geosyntec reviewed the proposed permit and communicated with SWDD and DARM on the applicable and appropriate comments. A Final Title V Air Operation Permit was issued by DARM on June 1, 2017. Geosyntec reviewed the Final Permit for consistency with the proposed permit. This therefore completes the scope of work under this project and Work Order.

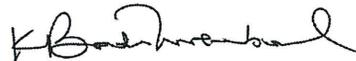
### **RECOMMENDED ACTIONS**

None

### **CLOSURE**

Geosyntec appreciates the opportunity to provide services to Indian River County. If you have any questions regarding this correspondence, please feel free to contact me at 904.858.1818.

Sincerely,



Kwasi Badu-Tweneboah, Ph.D., P.E.  
Principal Engineer

Enclosure – Invoice No. 124321504

**Table 1**

**Summary of Invoices Submitted for Geosyntec's Project Number FL2914  
IRC – 2016 Title V Air Operations Permit Renewal Application**

<b>Geosyntec Project Number/IRC Work Authorization Number</b>	<b>Invoice No.</b>	<b>Invoice Date</b>	<b>Amount</b>
FL2523/CCNA-2014-WO5	12164118	11/14/2016	\$7,586.91
	12164130	12/09/2016	\$31,958.55
	12417682	1/16/2017	\$15,425.13
	12419675	2/21/2017	\$4,346.31
	12420866	3/14/2017	\$1,061.93
	12428247	4/11/2017	\$3,027.17
	124321504	6/21/2017	\$685.47
	<b>TOTAL</b>		<b>\$64,091.47</b>



PLEASE REMIT PAYMENT TO:  
Geosyntec Consultants  
900 Broken Sound Parkway NW, Suite 200  
Boca Raton, Florida 33487-2775 USA  
Tel (561) 995-0900 Fax (561) 995-0925

INDIAN RIVER COUNTY SWDD  
1325 74TH AVENUE SW  
VERO BEACH, FL 32968  
Attention: HIMANSHU MEHTA, P.E.

Invoice #: 124321504  
Invoice Date: 6/21/2017  
Project: FL2914  
Project Name: IRC 2016 TITLE V PERMIT  
RENEWAL AP

For Professional Services Rendered through transaction date: 6/11/2017

IF YOU HAVE QUESTIONS ABOUT THIS INVOICE, PLEASE CONTACT DR. KWASI BADU-TWENEBOAH AT 904-858-1818.

CCNA-2014-WO NO. 5

Professional Services	\$665.50
3.0% Communication Fee	\$19.97
Current Invoice	----- \$685.47
<b>**Amount Due This Invoice **</b>	<b>\$685.47</b>

Statement

Prior Billings	\$63,406.00	Project Budget	\$64,107.00
Current Invoice	\$685.47	Expended to Date	\$64,091.47
Billed To Date	\$64,091.47	Contract Balance	\$15.53
Paid To Date	\$63,406.00	<b>**Amount Due This Invoice **</b>	<b>\$685.47</b>

Phase : 01) GC/PM/MEETINGS

<u>Class / Employee Name</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>ADMINISTRATIVE ASSISTANT</b>				
TERPSTRA, TORI	04/11/2017	0.25	94.00 ✓	23.50 ✓
Total: ADMINISTRATIVE ASSISTANT		0.25		23.50
<b>PRINCIPAL</b>				
BADU-TWENEBOAH, KWASI	04/10/2017	0.50	214.00 ✓	107.00 ✓
	04/11/2017	1.00	214.00 ✓	214.00 ✓
	04/13/2017	0.50	214.00 ✓	107.00 ✓
	05/15/2017	0.50	214.00 ✓	107.00 ✓
Total: PRINCIPAL		2.50		535.00
Total Phase : 01) GC/PM/MEETINGS			<b>Phase Labor</b>	<b>558.50 ✓</b>
			<b>3.0% Communication Fee</b>	<b>16.76 ✓</b>

Phase : 04) RESPONSE TO REGULATORY COMMENT

<u>Class / Employee Name</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>PRINCIPAL</b>				
BADU-TWENEBOAH, KWASI	06/06/2017	0.50	214.00	107.00 ✓
Total: PRINCIPAL		0.50		107.00
Total Phase : 04) RESPONSE TO REGULATORY COMMENT			<b>Phase Labor</b>	<b>107.00</b>
			<b>3.0% Communication Fee</b>	<b>3.21 ✓</b>

			<b>Total Project Labor</b>	<b>665.50</b>
			<b>3.0% Communication Fee</b>	<b>19.97 ✓</b>
<b>Total Project: FL2914 -- IRC 2016 TITLE V PERMIT RENEWAL AP</b>				<b>685.47 ✓</b>