

24 February 2023

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. 502431
IRC – 2021 Title V Air Operation Permit Renewal Application
IRC Work Authorization No. CCNA-2018-Work Order No. 13
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. FL8176 - 2021 Title V Air Operation Permit Renewal Application for the Indian River County Landfill Facility. This project was completed under Work Order No. CCNA-2018-Work Order No. 13 authorized on July 13, 2021, pursuant to that certain Continuing Contract Agreement for Professional Services, dated April 17, 2018, renewed and amended as of this May 18, 2021 (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. 502431, dated 17 February 2023.

SCOPE OF WORK

The scope of work authorized under Work Order No. CCNA-2018-Work Order No. 13 was divided into four phases: (i) general consulting/meeting support/project management; (ii) Design Capacity and NMOC Emissions Rate Reports; (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.

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 – Design Capacity and NMOC Emissions Rate Reports

Under this phase, Geosyntec first prepared a Design Capacity Report for submittal to USEPA and FDEP-DARM. Geosyntec then 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 Environmental Corporation (TRC), Alachua, 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 to prepare the NMOC emission rate report for submittal to USEPA and FDEP-DARM.

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 2026 of 12.38 Mg/year, based on the results from the NMOC emissions rate report (see Phase 2 above). Landfill facilities having an annual emission of NMOC below 34 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

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received by FDEP-DARM, Tallahassee on October 19, 2021. Geosyntec worked with SWDD in responding to RAIs from FDEP-DARM.

On October 25, 2022, the FDEP-DARM issued to SWDD draft permit 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 FDEP-DARM issued the final Title V Air Operation Permit Renewal (No. 0610015-008-AV) on January 26, 2023.

BUDGET

The approved budget for Work Order No. CCNA-2018-Work Order No. 13 was \$71,198.00. The total invoiced amount, including the final invoice is \$71,198.00. 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.
Senior Principal Engineer

Enclosure: Invoice No. 502431

24 February 2023

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. 502431
Title V Air Operations Permit Renewal Support Services
Indian River County Landfill Facility**

Dear Mr. Mehta:

Geosyntec Consultants, Inc. (Geosyntec) prepared this project management report to address the professional services for the Class I Landfill Title V Air Operations Permit Renewal Support Services project 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 29 January 2023. **Table 1** provides invoicing detail for the project.

PROJECT MANAGEMENT SUMMARY

Geosyntec's Project No. FL8176: Title V Air Operations Permit Renewal – Indian River County Landfill Facility (IRC Work Order No. 13)

Budget Overview

Invoice No. 502431 (enclosed) dated 17 February 2023 for \$137.26 is the 15th and final invoice for Project No. FL8176. Listed below is a summary of the budget, including invoiced amount and remaining budget.

Approved Budget:	\$71,195.76
Invoiced Amount:	\$71,195.76
Remaining Budget	\$0.00

Geosyntec is within the budget appropriated for this project.

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WORK COMPLETED TO DATE

The tasks performed under this invoice include review of final permit issued by FDEP, and project management.

WORK REFLECTED ON ENCLOSED INVOICE

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

- Labor indicated as professional services (\$137.26) is associated with the items listed above.
- Other expenses are associated with communications fee are built into the lump sum amount above.

ONGOING WORK

The FDEP issued the Final Permit for the project on 26 January 2023. Therefore, this project is complete.

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 904.450-4259

Sincerely,



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

Enclosure – Invoice No. 502431

Table 1

**Summary of Invoices Submitted for Geosyntec's Project Number FL8176
IRCL – Title V Air Operations Permit Renewal Support Services**

Geosyntec Project Number/IRC Work Authorization Number	Invoice No.	Invoice Date	Amount
FL8176/ WORK ORDER No. 13	444263	08/17/2021	\$2,268.00
	446779	09/14/2021	\$5,135.25
	449366	09/30/2021	\$18,342.24
	453336	11/17/2021	\$18,213.50
	455573	12/10/2021	\$596.59
	460229	1/21/2022	\$1,801.71
	460826	2/4/2022	\$403.00
	465311	3/17/2022	\$18,209.69
	467635	4/12/2022	\$4,134.12
	471882	5/13/2022	\$425.50
	475622	6/16/2022	\$417.72
	479021	7/18/2022	\$165.50
	484945	9/16/2022	\$541.48
	499013	1/18/2023	\$404.20
	502431	2/17/2023	\$137.26
		TOTAL	



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**

**Invoice # : 502431
 Project : FL8176**

Invoice Date : 2/17/2023

Attention: HIMANSHU MEHTA, P.E.

For Professional Services Rendered through transaction date: 1/29/2023

Project Name : IRC TITLE V AIR OPERATIONS PERMIT R

IF YOU HAVE QUESTIONS ABOUT THIS INVOICE, PLEASE CONTACT DR. KWASI BADU-TWENEBOAH AT
 904-450-4259

IRC WORK ORDER NO. 13

	Phase Fee	% Complete	Previously Billed	Total Invoiced To Date	
01) PM & MEETINGS	14,053.68	100.00	14,053.68	14,053.68	
	Phase Fee	% Complete	Previously Billed	Total Invoiced To Date	
02) DESIGN CAPACITY & NMOC RATE REP	18,563.10	100.00	18,563.10	18,563.10	
	Phase Fee	% Complete	Previously Billed	Total Invoiced To Date	
03) TITLE V AIR PERMIT RENEWAL APPL	31,716.10	100.00	31,716.10	31,716.10	
	Phase Fee	% Complete	Previously Billed	Amount Due This Invoice	Total Invoiced To Date
04) RESPONSE TO REGULATORY COMMENTS	6,862.88	100.00	6,725.62	137.26	6,862.88

Total Contract Fee	\$71,195.76
Total % Complete To Date	100.00 %
Total Fee Earned To Date	\$71,195.76
Less Previous Billings	\$71,058.50
Total This Invoice	\$137.26
Amount Due this Invoice	\$137.26

Statement

Prior Billings	\$71,058.50	Project Budget	\$71,195.76
Current Invoice	\$137.26	Billed to Date	\$71,195.76
Billed To Date (Includes Retainage)	\$71,195.76	Contract Balance	\$0.00
Paid To Date	\$71,058.50	**Amount Due This Invoice**	\$137.26