

16 May 2022

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. 471626
IRC – Groundwater Compliance Technical Support Services
IRC Work Authorization No. CCNA-2018-Work Order No. 8 and Amendment No. 1
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. FL3738A – Groundwater Compliance Technical Support Services for the Indian River County Landfill Facility. This project was completed under Work Order No. CCNA-2018-Work Order No. 8 and Amendment No. 1 authorized on 13 October 2020 and 17 August 2021, respectively, pursuant to that certain Continuing Contract Agreement for Professional Services, dated April 17, 2018 (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. 471626, dated 12 May 2022.

SCOPE OF WORK

The scope of work authorized under Work Order No. CCNA-2018-Work Order No. 8 and Amendment No. 1 was divided into eight phases: (i) Phase 1 – general consulting (GC)/meeting support (MS)/project management (GC/MS/PM); (ii) Phase 2 – database preparation; (iii) Phase 3 – C&D debris disposal facility groundwater supplemental assessment; (iv) Phase 4 – Class I Landfill evaluation; (v) Phase 5 additional GC/MS/PM; (vi) Phase 6 –historical and as-built document review; (vii) Phase 7 – RDF and C&D Debris Disposal Facility additional assessment; and (viii) Phase 8 – Data Evaluation and Summary Report. 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 of the initial Work Order No.8, Geosyntec performed project planning and management responsibilities, such as meetings and correspondences with SWDD, ENCO Labs, and the Florida Department of Environmental Protection (FDEP); invoice review and preparation; project coordination; and project administration.

Phase 2 – Database Preparation

Under this phase, Geosyntec compiled a database of historical groundwater and surface water analytical data for both Class I Landfill and C&D Debris Disposal Facility with historical landfill development at the IRCL facility and developed trends to help explain the apparent exceedances in some of the parameters.

Phase 3 – C&D Debris Disposal Facility Groundwater Supplemental Assessment

Under this phase, Geosyntec completed supplemental assessment northeast of the C&D debris disposal facility; presented findings to SWDD and issued final draft report. Based on the recommendations from the report, SWDD authorized Amendment 1 to Work Order 8 for additional investigation to help identify the source of the apparent contamination on the northeast corner of the C&D debris disposal facility.

Phase 4 – Class I Landfill Evaluation

Under this phase, Geosyntec completed the installation of additional groundwater evaluation monitoring wells requested by FDEP and submitted Evaluation Monitoring Report No. 1 in January 2021. Subsequent quarterly evaluation monitoring reports in 2021 are being performed under Work Order No. 10.

Phase 5 – Additional GC/MS/PM

Under this phase of Amendment No. 1 to Work Order No.8, Geosyntec performed project planning and management responsibilities, such as meetings and correspondences with SWDD, ENCO Labs, and the Florida Department of Environmental Protection (FDEP); invoice review and preparation; project coordination; and project administration.

Phase 6 – Historical and As-Built Records Review

Under this phase, Geosyntec conducted a review of the operation and compliance records via the FDEP OCULUS portal to identify if any releases from the RDF to the perimeter swale between the RDF and the C&D Debris Disposal Facility had been reported. Geosyntec also reviewed as-built record drawings of the stormwater management systems for the RDF and the C&D Debris Disposal Facility to help identify any potential cross connections between the two. Geosyntec also conducted a site visit with SWDD staff to inspect the stormwater management infrastructure to help refine the understanding of the interconnections between the RDF and the C&D Debris Disposal Facility.

Phase 7 – Additional Assessment

Under this phase, Geosyntec conducted additional assessment that included groundwater quality profiling, muck probe sampling, surface water sampling, and laboratory analytical testing of samples.

Phase 8 – Data Evaluation and Summary Report

Under this phase, Geosyntec reviewed the field and laboratory analytical data results and prepared a summary report for submittal to FDEP and SWDD. A draft report was initially presented to SWDD for review in the form of a PowerPoint presentation via Teams meeting.

BUDGET

The approved budget for Work Order No. CCNA-2018-Work Order No. 8 and Amendment No.1 was \$201,132.55. The total invoiced amount, including the final invoice is \$201,132.55. Therefore, Geosyntec completed this project within the approved budget.

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16 May 2022
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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) 450-4259.

Sincerely



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

Enclosure: Invoice No. 471626

16 May 2022

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. 471626
IRC – Groundwater Compliance Technical Support
Indian River County Landfill Facility**

Dear Mr. Mehta:

Geosyntec Consultants (Geosyntec) prepared this project management report to address the professional services for the Groundwater Compliance Technical Support 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 24 April 2022. Table 1 provides invoicing detail for the project.

PROJECT MANAGEMENT SUMMARIES

Geosyntec’s Project No. FL3738A: Groundwater Compliance Technical Support – Indian River County Landfill Facility (IRC Work Authorization No. CCNA-2018 Work Order No. 8 & Amendment 1)

Budget Overview

Invoice No. 471626 (enclosed) dated 12 May 2022 for \$2,383.00 is the 19th and **final** invoice for Project No. FL3738A. Listed below is a summary of the budget, including invoiced amount and remaining budget.

Approved Budget:	\$201,132.55
Invoiced Amount:	\$201,132.55
Remaining Budget	\$0.00

Geosyntec is within the budget appropriated for this project.

Mr. Himanshu H. Mehta, P.E.
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WORK COMPLETED TO DATE

The tasks performed under this invoice include summary report preparation and submittal to FDEP and SWDD; and project administration, including project management.

WORK REFLECTED ON ENCLOSED INVOICE

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

- Labor indicated as professional services (\$2,383.00) is associated with the above listed tasks.
- Other expenses are associated with communication fee and are built into the lump sum amount above.

ONGOING WORK

Geosyntec is finalized and submitted the supplemental investigation summary report to FDEP and SWDD on 7 March 2022.

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.
Senior Principal Engineer

Enclosure – Invoice No. 471626

Table 1

**Summary of Invoices Submitted for Geosyntec's Project Number 3738A
IRC – Groundwater Compliance Technical Support**

Geosyntec Project Number/IRC Work Authorization Number	Invoice No.	Invoice Date	Amount
FL3738A/CCNA2018- WORK ORDER No. 8 & AMENDMENT 1	417033	11/3/2020	\$6,323.95
	421786	12/20/2020	\$13,439.89
	424364	1/21/2021	\$34,116.29
	427550	2/26/2021	\$53,901.39
	430651	4/5/2021	\$8,267.97
	433048	4/26/2021	\$3,473.75
	433812	5/6/2021	\$3,695.00
	436995	6/9/2021	\$3,861.40
	441636	7/19/2021	\$1,482.32
	443445	8/11/2021	\$2,464.21
	446510	9/14/2021	\$3,946.53
	449360	9/30/2021	\$6,215.41
	453498	11/17/2021	\$10,707.16
	455665	12/13/2021	\$6,234.00
	459756	1/18/2022	\$10,457.52
	463001	2/18/2022	\$4,608.07
	465551	3/16/2022	\$16,053.32
	467615	4/8/2022	\$9,501.37
	471626	5/12/2022	\$2,383.00
		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 # : 471626
 Project : FL3738A
 Invoice Date : 5/12/2022**

Attention: HIMANSHU MEHTA, P.E.

For Professional Services Rendered through transaction date: 4/24/2022

Project Name : IRC GROUNDWATER COMPLIANCE TECHNICA

IF YOU HAVE QUESTIONS ABOUT THIS INVOICE, PLEASE CONTACT DR. KWASI BADU-TWENEBOAH AT 904-450-4259
 CCNA-2018-WO NO. 8

	Phase Fee	% Complete	Previously Billed		Total Invoiced To Date
01) MEETING SUPPORT/PM	24,705.40	100.00	24,705.40		24,705.40
	Phase Fee	% Complete	Previously Billed		Total Invoiced To Date
02) DATABASE PREPARATION	14,759.90	100.00	14,759.90		14,759.90
	Phase Fee	% Complete	Previously Billed		Total Invoiced To Date
03) C&D FACILITY GW SUPPL ASSESMEN	58,794.40	100.00	58,794.40		58,794.40
	Phase Fee	% Complete	Previously Billed		Total Invoiced To Date
04) CLASS LFL EVALUATION	36,713.00	100.00	36,713.00		36,713.00
	Phase Fee	% Complete	Previously Billed	Amount Due This Invoice	Total Invoiced To Date
05) PM/MEETINGS	9,547.22	100.00	9,091.25	455.97	9,547.22
	Phase Fee	% Complete	Previously Billed		Total Invoiced To Date
06) HISTORICAL & AS-BUILTS REVIEW	12,945.10	100.00	12,945.10		12,945.10
	Phase Fee	% Complete	Previously Billed		Total Invoiced To Date
07) ADDITIONAL ASSESSMENT	24,397.25	100.00	24,397.25		24,397.25
	Phase Fee	% Complete	Previously Billed	Amount Due This Invoice	Total Invoiced To Date
08) DATA EVALUATION AND SUMMARY REP	19,270.28	100.00	17,343.25	1,927.03	19,270.28

Total Contract Fee	\$201,132.55
Total % Complete To Date	100.00 %
Total Fee Earned To Date	\$201,132.55
Less Previous Billings	\$198,749.55
Total This Invoice	\$2,383.00
Amount Due this Invoice	\$2,383.00

Statement

Prior Billings	\$198,749.55	Project Budget	\$201,132.55
Current Invoice	\$2,383.00	Billed to Date	\$201,132.55
Billed To Date (Includes Retainage)	\$201,132.55	Contract Balance	\$0.00
Paid To Date	\$189,248.18	**Amount Due This Invoice**	\$2,383.00