City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Solid Waste Division
1031 Superior Street
Jacksonville, FL 32254
(904) 255-7500
www.coj.net

ONE CITY. ONE JACKSONVILLE.

February 7, 2019

TO: **Greg Pease, Chief, Procurement Division**

THRU: **John Pappas, P.E., Director, Department of Public Works**

From: **Jeffrey S. Foster, P.G, SW Environmental Engineer Manager**
Will Williams, Chief, Solid Waste Division

SUBJECT: **CDM Smith, Inc. Amendment #16**
Trail Ridge Landfill Expansion Permitting and Design EPA Title V Air Permit Renewal
Contract No. 6354-13, P-07-10
Account No. PWSW44K-069505-SW005-06

The Solid Waste Division is requesting approval of Amendment #16 for the Scope of Work contained in Exhibit AI in the amount of $57,015.00 as detailed in the Contract Fee Summary Exhibit AJ. Trail Ridge Landfill is classified as a major point source of air pollutants where that facility emits or has the potential to emit one or more hazardous air pollutants above regulatory thresholds. Amendment #16 is needed to fund the scope of work to renew the US Environmental Protection Agency Title V Air Permit No. 0310358-015-AV for the landfill. By Rule 62-213.420(1)(a)2, F.A.C, the facility must submit the permit renewal application prior to 225 days before the expiration of the existing permit, or by July 1, 2019.

The current contract amount for the base contract and Amendments 1 through 15 is $10,543,040.00. Approval of Amendment #16 in the total amount of $57,015.00 will bring the maximum indebtedness to the City's not to exceed amount of $10,600,055.00. Nothing contained herein shall be amended, modified or otherwise revised without prior PSEC and Mayor's approval.

If there are any questions, please do not hesitate to contact me at this office (904) 381-8205. Please advise when this item will be placed on the agenda so a representative of DPW can attend.

JSF/jsf
Attachments

ab

EXHIBIT AI

AMENDMENT 16 TO TASK AUTHORIZATION 6354-13

FOR

TRAIL RIDGE LANDFILL CLASS I CELL EXPANSION PROJECT

TITLE V PERMIT RENEWAL

This Authorization, when executed, shall be incorporated in and become part of the Agreement for Professional Services between the City of Jacksonville (OWNER), and CDM Smith Inc. (CONSULTANT), dated February 9, 2011 hereafter referred to as the Agreement.

PROJECT BACKGROUND

CONSULTANT will assist the OWNER with the design, permitting, bidding and construction of a new Class 1 landfill facility (Phases 6-14) at the Trail Ridge Landfill (TRLF) site. The existing landfill has been developed via 5 stages of cell construction (Phases 1-5) over 20 years and is within 2-3 years of reaching capacity. CONSULTANT has completed the following work related to the TRLF Class I Cell Expansion Project.

Initial Authorization – Developed a Master Plan for the build out of the TRLF site. The Master Plan recommended three phases, Phases 6 through 8 (now numbered 6 through 14), for full site buildout and evaluated various options for the next cell construction, Phase 6 expansion. The initial authorization also initiated field data collection for design of the TRLF Expansion Project.

Amendment 1 – Developed permit application and supporting documentation for the TRLF Expansion Environmental Resource Permit (ERP).

Amendment 2 – Continued data collection and developed permitting plans and specifications for Phase 6A through 6E TRLF Expansion Florida Department of Environmental Protection (FDEP) Solid Waste Permit. Amendment 2 included conceptual stormwater modeling, development of methane gas management plan, geotechnical stability analysis, and ongoing hydro-geological modeling.

Amendment 3 – Authorized investigation of expansion of the on-site borrow pit for use in future landfill activities. This amendment was a partial authorization of the Amendment 3 activities at TRLF. The remaining activities were authorized under Amendment 4.

Amendment 4 – Authorized funding for the remaining work described and approved in Amendment 3, including continued design and permitting activities for Phases 6 through 14 with development of solid waste construction permit application and Phase 6 construction documents. This amendment also included bidding services.

Amendment 5 – this amendment is a continuation of the work begun under the previous four amendments to obtain the ERP and FDEP Solid Waste Construction Permits needed to construct Phases 6-14 of the Trail Ridge Landfill Expansion. This amendment included activities to apply for a major modification of the site's existing Prevention of Significant Deterioration (PSD) permit, renew the site's

solid waste operating permit, and design a new access road for operational traffic. CONSULTANT submitted and received the FDEP solid waste construction permit, operations permit, and 2014 financial assurances for the planned expansion area under this amendment.

Amendment 6 – this amendment authorized Engineering Services During Construction to support the TRLF Phase 6 Expansion Project. The amendment included conforming contract documents, holding a pre-construction meeting, conducting shop drawing review, issuing designer clarifications, addressing requests for additional information and providing resident project representation (RPR) for the project. These services were authorized through December 2015.

Amendment 7 – this amendment authorized design and permitting of a limerock construction access road from County Road 228 to Gilridge road. This road will provide access to the landfill and borrow areas for construction vehicles. This amendment also included intersection improvements to the perimeter road encircling Phases 1-5 of the existing landfill to facilitate re-routing of operations traffic to the new western access road. Re-routing of operations traffic is a key component of the construction sequence for the new Phase 6 cell.

Amendment 8 – this amendment authorized engineering services during construction for January 2016 through December 2016. Additionally, this scope includes activities to perform financial assurances reporting to the Florida Department of Environmental Protection (FDEP) associated with the site Solid Waste Permit, and perform various monitoring and maintenance tasks associated with onsite mitigation areas to maintain compliance with the site Environmental Resource Permit (ERP).

Amendment 9 - this amendment authorized engineering services during construction for January 2017 through June 2017. Additionally, this scope includes activities to perform various monitoring and maintenance tasks associated with onsite mitigation areas to maintain compliance with the site Environmental Resource Permit (ERP).

Amendment 10 – this amendment authorizes a seepage analysis study of the borrow pit south of Landfill Phases 1-5 to improve dewatering activities and address erosion concerns.

Amendment 11 - this amendment includes activities to perform investigation and recommendation for pretreatment of the landfill leachate prior to disposal at the Buckman WWTP, due to interference with the WWTP UV disinfection process.

Amendment 12 - this amendment extended geotechnical conformance testing from August 2017 through October 2017.

Amendment 13 – this amendment extended engineering services during construction through June 2018 due to an extension of the construction schedule by the Contractor.

Amendment 14 – this amendment authorized design and permitting of the Phase 6 gas collection system.

Amendment 15 – this amendment authorized the design and permitting of the Phase 7 Cell Expansion and Engineering Services During Construction for closure activities on Phases 1-5.

The Trial Ridge Landfill site is classified as a "major source of air pollution" or "Title V source." This site contains emissions units that emit or have the potential to emit a combined amount of 10 tons per year or more of any one hazardous air pollutant (HAP), 25 tons per year or more of any combination of HAPs, or directly emit or have the potential to emit 100 tons per year or more of any regulated air pollutant.

The Title V Air Operation Permit for this site was last renewed and issued on February 12, 2015. The current Title V Permit expires on February 11, 2020. According to Rule 62-213.420(1)(a)2., F.A.C., the facility must submit the permit renewal application prior to 225 days before the expiration of the permit, or by July 1, 2019.

SCOPE OF WORK

This scope of work for Amendment 16 is a continuation of the work begun under the previous amendments to support the active Trail Ridge Landfill. This scope includes activities to renew the Title V Air Operations Permit for the landfill. The following is a description of the services to be provided under this amendment to the Task Authorization. The non-sequential order of some tasks and subtasks listed below is a result of tasks either being authorized under previous amendments or the work is to be authorized as part of future amendments.

TASK 1 - KICKOFF MEETING

There is no change to Task 1. All work has been completed for this task.

TASK 2 - DATA COLLECTION AND REVIEW

There is no change to Task 2. All work has been completed for this task.

TASK 3 - TRLF EXPANSION LANDFILL CELL ALTERNATIVES DEVELOPMENT

There is no change to Task 3. All work has been completed for this task.

TASK 4 - ANALYSIS OF PHASE 6 CELL ALTERNATIVE LOCATIONS

There is no change to Task 4. All work has been completed for this task.

TASK 5 - INITIATE FIELD SITE INVESTIGATION

There is no change to Task 5. All work has been completed for this task.

TASK 6 - STORMWATER MODELING

There is no change to Task 6. All work has been completed for this task.

TASK 7 - PROJECT MANAGEMENT

There is no change to Task 7.

TASK 8 - WETLAND LONG TERM HYDRATION EVALUATION

There is no change to Task 8. All work has been completed for this task.

TASK 9 - FLOOD ELEVATION DETERMINATION

There is no change to Task 9. All work has been completed for this task.

TASK 10 - ENVIRONMENTAL RESOURCE PERMITTING

There is no change to Task 10.

TASK 11 - DESIGN AND PERMITTING

Task 11 is amended as follows:

Subtask 11.25 - Title V Operations Permit Renewal 2019

Subtask 11.25.1 - Data Collection

CONSULTANT will gather and review information, including, but not limited to previous Title V Air Operation Permit applications, operation and maintenance manuals, and lists of equipment currently operating at the TRLF Site.

Subtask 11.25.2 -Permitting Assistance

Activities performed under this task consist of those functions required to prepare the Title V Air Operation Permit renewal application documents for submittal to the FDEP. More specifically this task includes the following:

CONSULTANT will prepare permit renewal application files using the Electronic Permit Submission and Processing (EPSAP) application form for Title V permit applications. This submittal will include the 10 existing Emission Units (table below) and other updated source and regulatory information. CONSULTANT will work with the OWNER and Landfill Operator to identify and include in the application any other requested changes to permit conditions that reflect operational changes or would enhance operational flexibility.

EU No.	Brief Description
001	Municipal Solid Waste Landfill
004	Internal Combustion Engine (#1)
005	Internal Combustion Engine (#2)
006	Internal Combustion Engine (#3)
007	Internal Combustion Engine (#4)
008	Internal Combustion Engine (#5)
009	Internal Combustion Engine (#6)
010	5,000 SCFM Open, Non-assisted Utility Flare
016	Emergency Diesel Generator
017	Emergency Diesel Generator

CONSULTANT will calculate controlled and fugitive air pollutant emission rates for the landfill gas collection and control system, based on the most recent system design information. CONSULTANT will also calculate emission rates for fugitive dust sources (unpaved roads, recycling operations, etc.), and for all stationary sources at the site (such as engines and generators). CONSULTANT will collect, update and verify with the OWNER the required facility descriptive information, and information on the numbers, types and source parameters of all stationary and mobile air emitting equipment at the site.

The Title V Permit renewal application requires an updated list of all applicable air requirements. CONSULTANT will review the NESHAP and NSPS requirements, plus conditions from any recent FDEP approvals and any changes in F.A.C. since 2015.

CONSULTANT will prepare the EPSAP Title V long form (FDEP Form 62-210.900(1)) and appendix material and prepare an electronic portable document format (PDF) file for OWNER review. After receiving comments from the OWNER, CONSULTANT will finalize the electronic application form and appendices and submit the application via FDEP's EPSAP system. CONSULTANT's professional engineer (PE) will review and authenticate the electronic submittal and provide a physical PE Signature Document to FDEP. The OWNER's Authorized Representative will be required to log into FDEP's EPSAP system and electronically "sign" the application for the submittal process to be complete. An electronic signed and sealed PDF of all the final application documents will be provided to the OWNER.

Subtask 11.25.3 - Required Additional Information

The following additional information is required to be submitted as part of the EPSAP Title V permit application:

- Facility Plot Plan
- Process Flow Diagram
- Precautions to Prevent Emissions of Unconfined Particulate Matter
- Fugitive Emissions Identification
- List of Insignificant Activities
- List of Stationary Engines proposed Emission Unit status and applicable requirements
- Updated Identification of Applicable Requirements
- Requested Changes to Title V Air Operation Permit
- Compliance Test Reports
- Compliance Certification by Responsible Official
- Detailed Description of Control Equipment
- Operation and Maintenance Plan

CONSULTANT will prepare the information as appendix material to the Title V Permit renewal application and will attach in EPSAP.

Subtask 11.25.4 -FDEP Requests for Information and Draft Permit Review

CONSULTANT will respond to up to two Requests for Additional Information (RAI) prepared by FDEP as well as any comments on the application made during the public comment period. Once a draft Title V Operation Permit Renewal is issued, CONSULTANT will review it in detail, and discuss with OWNER any

comments or recommended changes to the permit conditions. CONSULTANT will, on behalf of OWNER, submit comments on the Draft Title V Permit, and, if necessary, negotiate the permit conditions with FDEP.

Subtask 11.25.5 - Meetings

CONSULTANT will prepare for and coordinate one pre-application meeting (via conference call) with FDEP Northeast District staff. The purpose of the conference call meeting will be to discuss the scope and content of the Title V Air Operation Permit renewal application. CONSULTANT will also attend one review meeting with OWNER to discuss any comments made after the draft application is reviewed.

TASK 12 - SOLID WASTE LANDFILL CONSTRUCTION PERMITTING

There is no change to Task 12.

TASK 13 - QUALITY ASSURANCE AND QUALITY CONTROL

There is no change to Task 13. All work has been completed for this task.

TASK 14 - ECONOMIC EVALUATION

There is no change to Task 14. All work has been completed for this task.

TASK 15 - PUBLIC INFORMATION PROGRAM ASSISTANCE

There is no change to Task 15. All work has been completed for this task.

TASK 16 - BIDDING SERVICES

There is no Change to Task 16.

TASK 17 - GENERAL ENGINEERING SERVICES DURING CONSTRUCTION

There is no change to Task 17.

TASK 18 - SPECIAL SERVICES

There is no change to Task 18.

TASK 19 - RESIDENT PROJECT REPRESENTATIVE SERVICES DURING CONSTRUCTION

There is no change to Task 19.

TASK 20 - NEW CELL GEOSYNTHETIC INSTALLATION QA/QC CONSTRUCTION SERVICES

There is no change to Task 20. All work has been completed for this task.

TASK 21 - BORROW PIT EVALUATION AND EXPANSION

There is no change to Task 21. All work has been completed for this task.

TASK 22 - MEETINGS, PROJECT MANAGEMENT AND QUALITY CONTROL

There is no change to Task 22.

ASSUMPTIONS

The following assumptions are included in this Amendment:

1. Permit Application Fees are not included in this Work Order.
2. CONSULTANT reserves the right to seek additional compensation for work performed beyond what is described in this Work Order.
3. OWNER will be responsible for publishing a public notice in a newspaper of the permit issuance provided by FDEP and payment of all associated publication fees.
4. This scope is for the Title V Air Operations Permit Renewal of the existing Emission Units and does not include Air Construction permitting for new emission units.
5. OWNER will provide all compliance reports for the flare and engines previously performed by others for the Emission Units. No compliance testing is budgeted for under this work order.
6. OWNER will provide engine specification sheets upon request.

TIME OF COMPLETION/SCHEDULE

CONSULTANT will begin work within 1 week of NTP. The Title V application package is due to FDEP by July 1, 2019.

COMPENSATION AND PAYMENT

CONSULTANT will complete the services in the Tasks listed above in this Amendment No. 16 for a lump sum fee of **$57,015** as shown in Exhibit AJ. CONSULTANT will invoice monthly as a percentage of the lump sum based on the percentage of work completed during the billing period. Lump sum compensation shall be for all labor, sub-consultants, and other direct costs associated with the performance of the work. The new total amended value for this Task Authorization is **$10,600,055**.

EXHIBIT AJ

CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION

CITY OF JACKSONVILLE, FLORIDA

CLASS I LANDFILL PERMITTING AND DESIGN - AMENDMENT 16

2/5/20193

PART I - GENERAL				
1. Project			**Proposal Number**	
CLASS I LANDFILL PERMITTING AND DESIGN AMENDMENT #16 TRLF Title V Permit Renewal			RFP #P-07-10	
3. Name of Consultant			**Date of Proposal**	
CDM Smith Inc.			2/5/20193	
PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly	Estimated		
	Rate	Hours		TOTAL
Officer/Technical Expert	74.32	52		$ 3,864.64
Principal / Associate / Project Manager	63.06	48		$ 3,026.88
Senior Profesional	50.11	140		$ 7,015.40
Project Engineer II / GIS Speicalist III	41.10	0		$ -
Project Engineer I / GIS Specialist II	34.34	168		$ 5,769.12
Sr. GIS Specialist/Designer	40.54	0		$ -
GIS Specialist I /Drafter/Technician	29.28	0		$ -
Clerical	20.83	42		$ 874.86
Field Staff Support Services	28.15	0		$ -
TOTAL DIRECT LABOR				$ 20,551
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	150.0%	x Total Direct Labor		$ 30,826
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 51,377
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 5,138
PART III - OTHER COSTS				
9. Miscellaneous Direct Costs				
Transportation, Per Diem and Equipment				
Presentation Boards				
Reproduction				
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				$ 500
10. SUBCONTRACTS (Lump Sum)				
SUB-CONTRACT SUB-TOTAL				$ -
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)				$ 57,015
11. REIMBURSABLE COSTS (Limiting Amount)				
SUB-TOTAL REIMBURSABLES				$ -
PART IV - SUMMARY				
TOTAL AMOUNT OF AM 15B CONTRACT (Lump Sum Plus Reimbursables)				**$ 57,015**
12. PRIOR CONTRACT AMOUNT (Through Amendment 15A)				$ 10,543,040
AMENDED AMOUNT OF CONTRACT				$ 10,600,055