


# Memorandum



**Date:** July 16, 2019

**To:** Gary Hartfield, Division Director  
Small Business Development  
Internal Services Department

**From:** Mike Fernandez, Director  
Department of Solid Waste Management 

**Subject:** Measures for Project No. 9ND020 – North Dade Landfill Vertical Expansion

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The Department of Solid Waste Management (DSWM) is preparing to solicit for Professional Engineering Services for Project Number 9ND020, North Dade Landfill Vertical Expansion. We are asking Small Business Development (SBD) to review the scope of work below and advise which Architect/Engineer Community Business Enterprise (CBE-A/E) measures would be appropriate to this contract under Implementing Order 3-32, if any.

The contract has a term of three (3) years and an estimated value of \$450,000 that includes a contingency of \$45,000.

The subject agreement is for providing professional services that include design and permitting of the vertical expansion at North Dade Landfill.

## **BACKGROUND**

North Dade Landfill (NDL) is an approximately 180-acre Class III Sanitary Landfill located in the northwest portion of Miami Dade County consisting of two cells. The East Cell is approximately 100 acres, lined, currently active and permitted to 135 feet NGVD. The West Cell is approximately 80 acres, unlined, closed and permitted to 95 feet NGVD. This expansion envisions maximizing the long-term capacity of NDL by increasing the elevation of both East & West Cells to approximately 250 feet NGVD. This project includes a vertical expansion of the NDL.

## **SCOPE OF WORK:**

The design and permitting services are intended to be used as part of the permitting process in order to secure a vertical expansion at NDL. This will include, but are not limited to, providing an engineering report in order to meet the requirements of 62-701 FAC. This engineering report will include at a minimum the following:

- Landfill Permit Requirements

- General Criteria for Landfills
- Landfill Cell Construction Design & Engineering Calculations
- Hydrogeological Investigations
- Geotechnical Investigations
- Vertical Expansion Design
- Landfill Operation Requirements
- Water Quality and Leachate Monitoring Requirements
- Special Waste Handling Requirements
- Gas Management System Design and Engineering Calculations
- Landfill Closure Design and Engineering Calculations
- Closure Procedures
- Long Term Care Requirements
- Financial Responsibility Requirements
- Facility Operations Plan
- Construction Quality Assurance Plan
- Stormwater Monitoring Plan
- Water Quality Monitoring Plan

The Engineering Report will also contain engineering drawings as they relate to:

- Base Grade Plan
- Fill Sequence Plan
- Leachate Collection System Piping Plan
- Leachate Collection System Piping Plan Details
- Final Grade Plan
- Surface Water Management System Plan
- Landfill Cross Sections
- Liner & Final Cover Details
- Leachate Management System Details
- Surface Water Management Details
- Conceptual Gas System Management Plans
- Conceptual Gas System Management System Plan Details
- Environmental Monitoring Plan

**EXPERIENCE:**

The prime consultant will be required to have at least five (5) years of experience in landfill permitting and design in the State of Florida. The consultant should have permitted at least one landfill in the last ten years. Technical Certification Categories susceptible to be considered for CBE-A/E Measures are as follows:

Prime only	7.00	SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS.
Prime or other	9.02	GEO-TECHNICAL AND MATERIALS ENGINEERING SERVICES
	10.01	STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES.
	10.05	ENVIRONMENTAL ENGINEERING – CONTAMINATION ASSESSMENT AND MONITORING
	15.01	SURVEYING AND MAPPING - LAND SURVEYING.
	15.02	AERIAL PHOTOGRAMMETRY
	16.00	GENERAL CIVIL ENGINEERING

