

# Memorandum



Date: October 30, 2015

To: Tara C. Smith, Director  
Internal Services Department

From: Lester Sola, Director  
Miami-Dade Water and Sewer Department

Subject: Review Item: Hydrogeologic and Engineering Services for Disposal, Water Supply, Monitoring Wells and Aquifer Storage and Recovery Wells – Project No. E15-WASD-17

The Miami-Dade Water and Sewer Department (WASD) is requesting that the subject project be reviewed for Small Business Enterprises (SBE) measures for Architectural and Engineering (A/E) and Goods and Services (G/S), in order to proceed with the advertisement and subsequent consultant selection for this project.

WASD intends to retain one (1) qualified firm under one (1) Non-Exclusive Professional Services Agreement (PSA) for this project. The term for this PSA is for an eight (8) year period. Maximum compensation is \$15,000,000, plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained Consultant.

The Consultant providing engineering services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

Technical Category (TC)	Description	TC Percentage %	SBE TC %
6.01 PRIME	Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission Systems	5%	
6.03 PRIME	Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants	5%	
10.02 PRIME	Environmental Engineering – Geology Services	50%	7.5%
10.09 PRIME	Environmental Engineering – Wellfield, Groundwater, and Surface Water Protection and Management	15%	
10.04 OTHER	Environmental Engineering – Chemistry Services	15%	2.5%
10.05 OTHER	Environmental Engineering – Contamination Assessment and Monitoring	5%	2.5%

15.01 OTHER	Surveying and Mapping – Land Surveying	1%	2.5%
16.00 OTHER	General Civil Engineering	4%	5%
	<b>TOTAL</b>	100	20%

Attached are WASD's Departmental Input Worksheet and the Notice to Professional Consultants for your review and approval. Should you have any questions, please contact Patty David, Chief, Intergovernmental Affairs Section at [pattyd@miamidade.gov](mailto:pattyd@miamidade.gov) or (786) 552-8040.

**Attachments**

c: Gary Hartfield, Assistant Director, Small Business Development

**MIAMI-DADE COUNTY, FLORIDA  
NOTICE TO PROFESSIONAL CONSULTANTS  
MIAMI-DADE WATER AND SEWER DEPARTMENT  
HYDROGEOLOGIC AND ENGINEERING SERVICES  
FOR DISPOSAL, WATER SUPPLY, MONITORING WELLS AND  
AQUIFER STORAGE AND RECOVERY WELLS  
PROJECT NO. E15-WASD-17**

The County Mayor, Miami-Dade County (County), pursuant to Section 287.055, Florida Statutes, 2-8.1, 2-8.2.12 and 2-10.4 of the Miami-Dade County Code, Administrative Order 3-39 and Ordinance 14-77, announces that the Miami-Dade Water and Sewer Department (WASD) will require professional hydrogeologic and engineering services from one (1) qualified Consultant to support the existing and future growth of the wastewater disposal, water supply, monitoring wells and aquifer storage and recovery wells related to WASD's capital improvement needs identified on the Multi-Year Capital Improvement Plan.

WASD is the primary provider of water and wastewater services to Miami-Dade County, serving a population of over 2.3 million, making it among the largest water/wastewater utilities in the United States. WASD has developed a Multi-Year Capital Improvement Program (CIP) to upgrade its facilities and infrastructure system throughout the County in order to renew and replace its existing deteriorated system, to ensure efficient, proper management, operation and maintenance practices and to accommodate future growth and development.

The Scope of Work represents a general outline of anticipated services and may change or include other specific services as required, but is not limited to the following:

1. **Hydrogeologic Consultant Services** - Perform hydrogeologic/geologic services and consultation related to WASD's Wellfields, Injection Wells and Aquifer Storage and Recovery Wells, which can include geochemical studies, groundwater modeling, monitoring, testing, permitting, design, specialized hydrogeologic oversight during construction and other services as needed. Injection wells refer to Underground Injection Control (UIC) Class I or Class V Exploratory wells that are drilled into the Lower Floridan Aquifer, including the Boulder Zone and Cretaceous formations beneath the Lower Floridan Aquifer.
2. **New Injection Well and ASR Wells** - Based on future projected wastewater disposal and reuse needs, the Consultant will provide hydrogeologic services to WASD by planning and optimizing use of current and future Class I and Class V injection and ASR well systems in the County. Injection wells refer to UIC Class I or Class V Exploratory wells that are drilled into the Lower Floridan Aquifer, including the Boulder Zone and Cretaceous formations beneath the Lower Floridan Aquifer.
3. **New Supply Wells** - Perform hydrogeological and engineering services for WASD to identify new supply well locations based on future projected raw water supply needs. Supply wells refer to water production wells drilled into Biscayne and Floridan aquifers.
4. **New Monitor Wells** - Perform hydrogeological and engineering services for WASD to identify new monitoring well locations for various water quality monitoring programs. Monitoring wells refer to wells drilled into Biscayne and Floridan aquifers or other aquifers for monitoring purposes.

### **Experience and Qualifications**

A Prime Consultant submitting should be a full service hydrogeologic and engineering firm experienced in the projects in Southeast Florida providing potable water, Class I and Class V Injection Well and Aquifer Storage and Recovery systems and monitoring well networks design, permitting and construction experience with a specific emphasis on projects of similar size and complexity. The successful experience on the above items shall be demonstrated with past projects completed prior to the date of this solicitation. The Prime Consultant shall provide a list of members of the proposed team, identifying the project/contract Manager and the team leaders for key specialties. Resumes should be provided for such key team leaders. The Prime Consultant should also consider including alternates (with similar experience) for the key team leaders in the event a substitution is required.

Provide qualifications to demonstrate the Prime and/or Subconsultant has a minimum experience of:

- At least five (5) years' experience in providing professional hydrogeologic/engineering services, potable water system and injection well design services in South Florida.
- At least three (3) projects in South Florida requiring potable water system hydrologic and/or solute transport modeling experience on systems of equal or greater than 10 MGD.
- At least three (3) projects in South Florida providing potable water system design, permitting and construction experience on systems of equal or greater than 10 MGD.
- At least three (3) projects in South Florida showing experience in the design, permitting and construction management of Class I Boulder Zone Injection Wells and Class V Aquifer Storage and Recovery Wells.
- At least one (1) project in Florida showing experience in the design, permitting and construction management of UIC Class I Injection Wells and Class V Exploratory Wells into the Boulder Zone but preferably experience with Cretaceous formations below the Lower Floridan Aquifer.

For projects which the Prime Consultant has served as the design consultant, the Prime Consultant shall provide the name and contact information for a Utility Executive with the Utility they served as the design consultant who can confirm their role. The descriptions shall include the client (i.e., municipality or agency), key project staff, the project name, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the prime firm, the achievements (e.g., projects delivered on schedule, dollars saved, innovative designs implemented, new technology utilized) and a client reference and contact information.

The Subconsultants shall provide a description of at least one (1) project(s) that is relevant to this Scope of Work within the past five (5) years from the date of this solicitation specific to their proposed responsibilities. The descriptions shall include the client (i.e., municipality or agency), key project staff, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the Subconsultant firm, the project's achievements and client reference and contact information.

**A/E TECHNICAL CERTIFICATION REQUIREMENTS**

**Prime**

- 6.01 Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission Systems
- 6.03 Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants
- 10.02 Environmental Engineering – Geology Services
- 10.09 Environmental Engineering – Wellfield, Groundwater, and Surface Water Protection and Management

**Prime and/or Subconsultants**

- 10.04 Environmental Engineering – Chemistry Services
- 10.05 Environmental Engineering – Contamination Assessment and Monitoring
- 15.01 Surveying and Mapping – Land Surveying
- 16.00 General Civil Engineering

**BREAKDOWN LIST**

Technical Category (TC)	Description	TC Percentage %	SBE TC %
6.01 PRIME	Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission Systems	5%	
6.03 PRIME	Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants	5%	
10.02 PRIME	Environmental Engineering – Geology Services	50%	10%
10.09 PRIME	Environmental Engineering – Wellfield, Groundwater, and Surface Water Protection and Management	15%	
10.04 OTHER	Environmental Engineering – Chemistry Services	15%	
10.05 OTHER	Environmental Engineering – Contamination Assessment and Monitoring	5%	5%
15.01 OTHER	Surveying and Mapping – Land Surveying	1%	1%
16.00 OTHER	General Civil Engineering	4%	4%
	<b>TOTAL</b>	100%	20%

WASD intends to retain one (1) qualified firm under a Non-Exclusive Professional Services Agreement. The term of the contract is for an eight (8) year period with a two (2) year option-to-renew. Maximum compensation for the contract is fifteen million dollars (\$15,000,000), plus a contingency allowance in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained Consultant. The County reserves the right to re-use the work products of the retained Consultant and to retain other Consultants to provide the same or similar services at its sole discretion.

**DEPARTMENTAL INPUT  
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

**Contract/Project Title:** Hydrogeologic and Engineering Services for Disposal, Water Supply, Monitoring Wells and Aquifer Storage and Recovery Wells

**Contract/Project No.** E15-WASD-17

**Description:** Hydrogeologic and Engineering Services for Disposal, Water Supply, Monitoring Wells and Aquifer Storage and Recovery Wells

**DEPARTMENT:** Miami-Dade Water and Sewer Department (WASD)      **CONTACT:** Patty David  
**PHONE:** (786) 552-8040

**Estimated Cost:** One (1) contract at \$15,000,000, plus a 10% contingency allowance in accordance with Ordinance 00-65.

**Funding Sources:** \_\_\_\_\_

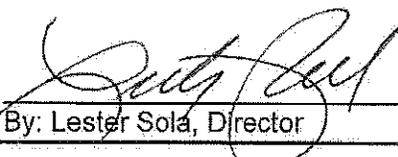
**ANALYSIS**

Commodity/Service No. _____		SIC: _____	
Trade/Commodity/Service Opportunities			
<b>Contract/Project History of Previous Purchases for Previous Three (3) Years</b>			
<b>Check Here</b>		<b>if this is a New Contract/Purchase with no Previous History</b>	
	<u>Existing</u>	<u>2<sup>nd</sup> Year</u>	<u>1<sup>st</sup> Year</u>
Contractor	_____	_____	_____
Ethnicity/Race	_____	_____	_____
Gender	_____	_____	_____
Contract Value	_____	_____	_____
COMMENTS: _____			

**RECOMMENDATIONS**

<u>SBE GOAL</u> 20 %	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
	<u>Analysis for Goal Recommendation</u>	
<u>Sub-Trade</u>	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
Total:	\$ _____	_____
		<u>Availability</u>
		_____
		_____
		_____

**Basis for Recommendation:** WASD proposes that the goal of 20% can be achieved with SBE Firms assisting with 10.02-7.5%; 10.04-2.5%; 10.05-2.5%; 15.01-2.5%; and 16.00-5%.

By:       Date: 10/23/15  
Internal Services Department      Date: \_\_\_\_\_