

Landfill Gas Control Systems and Services

RQID1300046 - Verification of Availability

Find attached the “**Scopes of Work**” and “**Special Requirements**” for an upcoming **Invitation to Bid (ITB)**. Please review to determine if you would be able to **satisfy the requirements** (as applicable), and **interested in responding**; if so, please check the appropriate areas below and respond to this email confirming the same. Please pay “**CLOSE**” attention to the various sections and the “**SPECIAL/MINIMUM**” requirements for each, and confirm your **ability** and **availability** to satisfy “**ALL**” sections/scopes.

See Sections **3.1 to 3.5 (all subsections)** – Paying very close attention to all Sections listed and the requirements of each. (While you are **not** bidding at this time, be mindful your response strongly influences SBD’s determination as it relates to a potential **SBE Measure**). So please be diligent in your review of the information and respond accordingly, based on your ability to meet **ALL** the applicable requirements.

Are you able to satisfy the requirements of the attached documents (ITB)?
YES NO

Do you have prior experience consistent with the requirements of this ITB (experience providing “landfill gas control systems and services”)?
YES NO

Are you familiar with the federal standard and requirements (NFPA and OSHA) that are associated with projects of this kind? YES NO

Do have experience in preparing “Site Specific Health and Safety Plans” associated with projects of this kind? YES NO

Are you able to meet the requirements of Section 3.2 (operations, maintenance, and monitoring)? YES NO

Are you able to meet the requirements of Section 3.5 (County’s Title V Air Permits)?
YES NO

I am “NOT” interested in this solicitation.

Name of Firm: _____ **SBE Exp. Date:** _____

Owner’s Name: _____ **Signature:** _____

Please respond by **12:00pm, Tuesday January 22, 2013**. Any questions, feel free to contact me at the number below.

(Respond to the “**Verification**” whether you are interested or not (choosing “**Yes**” or “**No**”), as this helps SBD in the determination of measures).

Vivian O. Walters, Jr.
Contract Development Specialist II
Regulatory and Economic Resources Department
Small Business Development Division
111 NW 1st Street #19 Floor, Miami, Fl 33128
walterv@miamidade.gov

☎ Office (305) 375-3138 | 📠 Fax (305) 375-3160

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LANDFILL GAS CONTROL SYSTEMS SERVICES

3.1 INTRODUCTION/BACKGROUND

The Public Works and Waste Management Department is seeking a complete suite of Landfill Gas (LFG) Services, which is necessary to fulfill the requirements of the County's Title V Air Permits, Mandatory Greenhouse Gas Monitoring and related regulations, permits and its contractual obligations to supply LFG as fuel for electric energy production. The services include operation, maintenance, regulatory and operational monitoring, regulatory testing and reporting, LFG system expansion, repair and rehabilitation of the systems as required by federal, state and local air quality permits, or operational needs as requested by the County. The services will be rendered at four specific landfill sites specified below and the may be amended from time to time in order to comply with any changes to the related regulations, rules, and permit requirements or operational needs.

South Dade Landfill – 23707 SW 97th Avenue, Goulds, Florida 33032

The South Dade Landfill (SDLF) has an active LFG system and a flare which is equipped with an auto-dialer to alert the selected vendor's Operator/Technician that a malfunction has occurred. This site has approximately 210 acres of disposal area distributed among five discrete cells (Cells 1-5). Cells 1 through 3 (approximately 110 acres) are closed in accordance with Florida Department of Environmental Protection (FDEP) regulations. Cell 4 (approximately 50 acres) is active and Cell 5 (approximately 50 acres) is under construction. The site may receive both Class I and Class III Municipal Solid Waste (MSW). At this site, LFG is extracted from the waste through a series of approximately 59 vertical wells (Cells 1-3) and 10 wellheads (Cell 4) for the horizontal collectors to which a vacuum is applied. The LFG system also includes condensate collection points that are connected to wells that receive condensate and discharges the condensate into the leachate system. The number of well heads and well types may increase as needed by the County. The vast majority of the piping systems are constructed out of either PVC or HDPE. Extracted LFG is to be directed, in order of priority, 1) to a planned electric generating facility, 2) gas compression station and transmission pipeline to an adjacent County facility, 3) a central flaring station or similar system for destruction or any combination of these. The flare, controls, pumps, compressors, blowers and recording instrumentation are located in a central location while the wells, condensate piping, service air piping and gas collection and transmission piping systems are located on the closed and active areas of the landfill and at adjacent facilities. The site has fourteen (14) gas monitoring probes along its boundary to assess gas migration.

North Dade Landfill – 21400 NW 47th Avenue, Miami, FL 33055

The North Dade Landfill (NDLF) also has an active LFG system and a flare which is equipped with an auto-dialer to alert the selected vendor's Operator/Technician that a malfunction has occurred. NDLF has approximately 200 acres of disposal area distributed among two contiguous, but discrete cells (East Cell and West Cell). The West Cell is closed in accordance with FDEP regulations and the East Cell is active. The site receives Class III MSW. This active gas system extracts LFG from the waste through a series of 136 vertical wells to which a vacuum is applied. The vast majority of the piping systems are constructed out of either PVC or HDPE. Extracted LFG is directed, in order of priority, to: a planned electric generating facility and a central flaring station or similar system for destruction. The site has twelve (12) gas monitoring probes along its boundary to assess gas migration. The flare, controls, pumps, compressors, blowers and recording instrumentation are located in a central location while the wells, condensate piping, service air piping and gas collection and

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transmission piping systems are located onsite at both the closed and active areas of the landfill.

NW 58th Street Landfill and Old South Dade Landfill

The NW 58th Street Landfill (58th Street) and Old South Dade Landfill (OSDL) are closed in accordance with FDEP regulations. The 58th Street landfill has a passive LFG system in which LFG vents through passive devices such as standpipes and the landfill cover system. The 58th Street site has seven (7) perimeter gas monitoring probes. OSDL has no passive LFG system, but it does have twenty (20) perimeter gas monitoring probes.

3.2 ROUTINE SERVICES

A. Active Landfill Gas System Operations, Maintenance and Monitoring

The selected vendor shall prepare and submit to County's Project Manager (PM) a site specific Health and Safety Plan for each site prior to commencement of activities under this solicitation. The selected vendor shall also provide all labor, administrative support, transportation, tools, materials (i.e., propane, lubricants, pads, and filters, etc.), and equipment, to perform routine operation, monitoring, calibration, regulatory reporting and preventative maintenance and minor repairs of the following elements collectively referred to as the LFG System:

1. Enclosed flare or similar system and gas moving and monitoring equipment at both the SDLF and NDLF.
2. Gas extraction system (wells, horizontal collectors, well heads, collection piping, extraction blowers, and condensate system).
3. Gas transmission system which includes, but is not limited to, compression station and equipment, piping, meters, monitoring equipment, and other equipment up to the Customer Delivery Point, which is defined as the metering station at the electric generating facilities, and gas extraction systems at both the NDLF and SDLF.
4. Perimeter gas probe and surface monitoring and reporting, as applicable to all sites.

The selected vendor is to provide such services and be onsite at least once per week at both the SDLF and NDLF during the hours of 7:00 AM to 5:30 PM, Monday through Friday, which are considered as part of the Routine Services, unless a different time period is authorized by the County's PM. The selected vendor must file its planned schedule with the County's PM prior to commencement of services rendered under this solicitation. This schedule may be changed from time to time with the prior approval of the County's PM. Additionally, the selected vendor shall be available for routine meetings on-site, via teleconference, or at the County's offices during regular work hours as requested by the County.

Routine activities are listed in the following Table 1 and are considered part of the Routine Service and hence are included in the monthly service fee. These services are to be performed at frequencies stated herein and may be amended from time to time by mutual agreement of the County and the selected vendor in order to conform with permit requirements, customary industry practices, or in response to site specific or regulatory conditions. At the minimum, all equipment is to be maintained in accordance with the manufacturer's recommendations. The selected vendor shall submit to the County monthly service records with the invoices.

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Table 1. Routine Services - Active Gas Systems

ACTIVITY	FREQUENCY
Flare/ LFG Distribution System Operation Check	Each Visit
Well field operation check, tuning & balancing including flow, O ₂ , temperature, gas quality and minor maintenance. All above includes condensate collection systems and special related well(s).	Each Visit (Entire Well field Tuning Completed Monthly)
Recorder Chart/Data Loggers	Weekly
Operational data summary reports including flare log, well field log, downtime log, flare outage reports, and related SSM Plan.	Daily, Monthly, Quarterly, Semiannually, and as requested by the PM
Flare Testing	As needed
NSPS & GHG Reporting	Annually
Preventative Maintenance	Table 2
Hurricane Preparations	As needed
Coordination with County staff, County consultants and Regulators	As needed
Surface gas scanning and perimeter probe monitoring and respective reports	Quarterly
Semi-annual Monitoring Reports, Semi-annual Operating Reports	Semi-Annually
Statement of Compliance	Annually
Keeping track of inactive well management	According to inactive well plan.

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Preventative maintenance is to be performed in accordance with the Table 2 and is considered part of the Routine Service. Table 2 is considered a guide and minimum standard for conducting routine maintenance. The selected vendor is to use its best efforts in performing routine maintenance and repairs to assure reliable, compliant operation of the LFG System. The selected vendor shall maintain reports and logs and shall submit to the County in both electronic and hard copy formats in a timely manner to assure compliance with regulatory deadlines. All data collected is the property of Miami-Dade County. Reports and data shall be submitted to the County's PM in the format, time and manner approved by the County's PM. The reports and data will generally follow the format used by the County when reporting to regulatory agencies. The selected vendor's Operator/Technician shall have an e-mail system and cellular phone for routine correspondence and communication with the County's PM and the auto-dialer alert system. The County will not reimburse the selected vendor for any cell phone or email provider charges, as they are considered part of the monthly fee.

Table 2. LFG System Maintenance Schedule

TASK SCHEDULE	WEEKLY	BI-WEEKLY	MONTHLY	BI-MONTHLY	SEMI-ANNUALLY	ANNUALLY	AS NEEDED OR SPECIFIED
CONDENSATE KNOCK OUT POT							
1- CHECK LIQUID LEVEL	Yes						
2- DRAIN KOP						Yes	
3- INSPECT DEMISTER	Yes						
AND CLEAN DEMISTER PAD						Yes	
4- RETORQUE COVER BOLTS					Yes		
PNEUMATIC HEADER VALVES & SYSTEMS							
1- CHECK SUPPLY PRESSURE	Yes						
2- CHECK VALVE PERFORMANCE					Yes		
3- CHECK SUPPLY LINES FOR LEAKAGE				Yes			
LFG BLOWERS/GAS MOVERS							
1- INSPECT FOUNDATION & CORRECTION DEFICIENCIES					Yes		
2- CHECK CONDITIONS OF ISOLATION PADS					Yes		
3- CHECK BLOWER MOTOR ALIGNMENT					Yes		
4- CHECK PIPING ALIGNMENT					Yes		
5- CHECK BEARING TEMPERATURE	Yes						
6- INSPECT FOR VIBRATION			Yes				
7- RELUBRICATE BEARINGS PER SPECIFICATION			Yes				
8- INSPECT DRIVE BELTS				Yes			
9- CLEAN VENTILATION OPENINGS OF BLOWER MOTOR							Yes
10- RELUBRICATE MOTOR BEARINGS							Yes
11- CHECK WIRE CONDENSATE FROM HOUSING					Yes		
12- DRAIN ANY CONDENSATE FROM HOUSING		Yes					
13- ROTATE BLOWERS EVERY 2000 HOURS							Yes
PIPING OPERATION							
2- RETORQUE ALL FLANGE CONNECTIONS					Yes		
3- CHECK ALL FLANGE GASKETS FOR LEAKAGE					Yes		
4- CHECK RUBBER EXPANSION JOINTS FOR WEAR					Yes		
5- CHECK PIPING ALIGNMENT					Yes		
6 - CHECK PRESSURE AND VACUUM	Yes						
7 - DRAIN CONDENSATE	Yes						

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Table 2. LFG System Maintenance Schedule (continued)

TASK SCHEDULE	WEEKLY	BI-WEEKLY	MONTHLY	BI-MONTHLY	SEMI-ANNUALLY	ANNUALLY	AS NEEDED OR SPECIFIED
FLAME ARRESTOR							
1- CLEAN INTERNAL BANK							Yes
2- CHECK BACK PRESSURE & CLEAN BANK ASSEMBLY							Yes
PROPANE PILOT SYSTEM							
1- CHECK PROPANE SUPPLY	Yes						
2- CHECK PROPANE SUPPLY PRESSURE	Yes						
3- CLEAN PRESSURE REGULATOR VENT							Yes
4- CHECK ALL CONNECTIONS FOR LEAKS					Yes		
ENCLOSED FLARE ASSEMBLY							
1- CHECK LOUVERS FOR SMOOTH OPERATION				Yes			
2- CHECK LINKAGE CONDITION				Yes			
3- MAINTAIN OIL LEVEL IN LOUVER ACTUATOR							Yes
4- REMOVE AND CLEAN ULTRA VIOLET SCANNER				Yes	Yes		
5- CHECK UV SCANNER FOR PROPER OPERATION				Yes	Yes		
6- INSPECT IGNITER PLUG, LEAD, & CONNECTIONS						Yes	Yes
7- INSPECT CONDITIONS OF TIP					Yes	Yes	
8- INSPECT CONDITION OF INSULATION, PINS, & KEEPERS					Yes	Yes	
9- ALIGN AND RETORQUE FOUNDATION BOLTS					Yes	Yes	
10- CHECK ELECTRICAL ENCLOSURE FOR MOISTURE				Yes		Yes	
11- TIGHTEN WIRE TERMINALS						Yes	
12- TIGHTEN CONDUIT CONNECTIONS						Yes	
13- CHECK WIRE CONNECTIONS FOR CORROSION						Yes	
14- CHECK PAINT & TOUCH-UP/REPAINT							Yes
15- CHECK THERMOCOUPLE ELEMENTS					Yes		
16- CHECK PRESSURE, VACUUM & TEMP, GAUGES				Yes			
FLARE CONTROL PANEL							
1- CLEAN & MAINTAIN INSTRUMENTS PER SPECIFICATIONS					Yes		
2- REPLACE RECORDER CHART	Yes						
3- CHECK ENCLOSURE FOR MOISTURE	Yes						
4- CHECK WIRE CONNECTIONS FOR CORROSION & CONNECTION INTEGRITY							
5- CHECK PANEL LIGHT BULBS		Yes					
6- CHECK EMERGENCY SHUTDOWN		Yes					
LADDER & PLATFORM							
1- MAKE SURE LADDERS ARE ALIGNED & STRUCTURALLY SOUND				Yes			
NEEDED				Yes			
CONTROL BUILDING							
1- CHANGE AC FILTER			Yes				
2- INSPECT AND CLEAN EVAPORATOR & CONDENSER			Yes				

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B. Routine Gas Monitoring Services

Perimeter Gas Probe Monitoring and Surface Gas Monitoring, including any re-sampling, and reporting are considered part of the Routine Service and hence are included in the monthly service fee. Reporting shall be in a form acceptable to the regulatory agencies and the County's PM. The monitoring can occur at frequencies varying from monthly to annually, at the discretion of the County's PM. The selected vendor shall prepare all report(s) necessary to fulfill the regulatory requirements or as may be requested by the County's PM or permit requirements.

1. Perimeter Gas Probe Monitoring:

The selected vendor is to provide all services labor and equipment to perform Perimeter Gas Probe Monitoring and reporting at all landfill sites specified above, using equipment prescribed by FDEP and the United States Environmental Protection Agency (USEPA) or other regulatory agency for such monitoring. The selected vendor shall also maintain and repair perimeter probes under this solicitation.

2. Surface Gas Monitoring:

The selected vendor is to provide all services, labor and equipment to perform surface gas monitoring and reporting at the SDLF and NDLF using equipment and procedure prescribed by FDEP and USEPA for such monitoring. An episode is defined as a surface scan of the entire site at locations and frequencies defined in the regulations and performed to the satisfaction of the County's PM.

C. Call-In Work

The flares at SDLF and NDLF are equipped with an auto-dialer in the event of a malfunction and that the flares do not automatically restart. Call-In Work is considered part of the Routine Service and hence is included in the monthly service fee. The selected vendor shall respond within the next business day, and shall not exceed five calendar days after being contacted by the flare's auto-dialer or by the County's PM. The selected vendor is required to mobilize to the site to diagnose and repair a problem and restart the flare 365 days of the year, including weekends and holidays. Travel time to and from the site(s) in response to a notification by the auto-dialer or County's PM is not compensable as Call-In Work. The selected vendor shall provide written notification to the County's PM of the cause, duration, and corrective action taken, including certification of no uncontrolled release of landfill gas and immediately update the Start Up/Shutdown Malfunction logs and forms within forty-eight (48) hours of responding to the notification by the flare's auto-dialer or by the County's PM.

D. Greenhouse Gas Services

The selected vendor shall perform the monitoring and prepare and submit digital and hardcopy annual reports for NDLF, SDLF, and 58th Street landfill sites, to USEPA, in their required format and in accordance with the Mandatory Greenhouse Gas (GHG)

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Reporting Rule, 40 Code of Federal Regulation (CFR), Part 98, Subparts A and HH. The annual reports, at a minimum, shall include the following information:

1. Annual GHG emissions for all applicable source categories (40 CFR, Part 98, Subpart HH), expressed in metric tons of carbon dioxide equivalents (CO₂e).
2. If applicable, report CH₄ destruction resulting from landfill gas collection and combustion systems.
3. If applicable, report the emissions of CO₂, CH₄, and N₂O from each stationary combustion unit following the requirements of Subpart C, General Stationary Fuel Combustion Sources.
4. Calculate annual modeled CH₄ generation in accordance to the applicable requirements stipulated in 40 CFR 98.343, Calculating GHG Emissions (Equation HH-1). Provide the values used to calculate the annual modeled CH₄ generation.
5. Provide classification of the landfill as "open" (actively received waste in the reporting year) or "closed" (no longer receiving waste), the year in which the landfill first started accepting waste for disposal, the last year the landfill accepted waste (for open landfills, enter the estimated year of landfill closure), the capacity (in metric tons) of the landfill, an indication of whether leachate recirculation is used during the reporting year.
6. Method used for estimating the reporting year and historical waste disposal quantities and the range of years it is applied.
7. Surface area of the landfill containing waste (in square meters), identification of the type of cover material used (as either organic cover, clay cover, sand cover, or other soil mixtures).
8. Retain all records including the calibration records for all monitoring equipment, including the method or manufacturer's specification used for calibration.

The GHG services are considered part of the Routine Service and hence are included in the monthly service fee.

3.3 NON-ROUTINE MISCELLANEOUS REPAIRS, REPLACEMENT AND MAINTENANCE

The landfill operating permits require continuous, compliant operation of the LFG System. These services cover those repairs or work necessary to assure a rapid return to operation of the LFG System after a failure that results from an uncontrollable event such as a lightning strike, or load settlement, which are non-periodic and infrequent repairs; or work such as the rebuilding of a flare's blower, re-drilling a well, extending a well, extending a pipe lateral or a transmission pipe header; or other miscellaneous repairs or maintenance or expansion of existing LFG system necessary for continuous compliant operation, such as installing a new well or collector, wellhead or other activities.

These services are non-routine and are not considered part of routine service outlined in Tables 1 and 2. A Price Schedule for these Non-Routine Miscellaneous Repairs, Replacement and Maintenance has been included and all Work shall be inclusive of all labor and materials including evaluation, assessment, supply, and performance testing.

In situations where the selected vendor may be required to provide other related services or miscellaneous materials not specified in the Price Schedule, including equipment rental and subcontractors to fulfill the requirements stipulated herein, a formal written scope of work and price shall be developed and submitted by the selected vendor for review and approval

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by the County's PM. The hourly rates for these services shall not exceed those stipulated in the Price Schedule.

Reimbursement for use of company owned equipment will be considered on a case-by-case basis. The selected vendor shall provide a pricing schedule associated with this type of equipment to the County's PM and be agreed upon by the County's PM in writing, prior to use in the field. **The County will not reimburse the selected vendor for any additional costs of any kind.**

3.4 OPTIONAL SERVICES

At the County's sole discretion, the selected vendor may be required to perform any of the following optional services, which may be required to address compliance, design or construction issues as may be needed or required by regulatory agencies:

1. Attend meetings with regulatory agencies, public or county consultants and engineers
2. Perform special studies or conduct special testing or monitoring
3. Adding new sites or additional work areas in existing facilities

The selected vendor shall provide a formal written scope of work and price to be submitted for review and approval by the County's PM. The hourly rates for these services shall not exceed those stipulated in the Price Schedule.

3.5 FAILURE TO COMPLY WITH PERMIT REQUIREMENTS

The selected vendor shall assure compliance all permit conditions and regulatory requirements stipulated in the County's Title V Air Permits. The selected vendor shall pay for all penalties or fines imposed on the County as a consequence of the selected vendor's failure to meet any and all reporting, record keeping, documentation of system malfunctions or outages, performing timely repairs or maintenance, meeting established deadlines and any other requisites as detailed by the County's Title V Air Permits.

QUESTIONNAIRE

The Division of Small Business Development (SBD) is requesting information on the Bidder's experience and capability to provide services requested under this project. The questions represent a list of minimum requirements that must be answered by the bidder and aids SBD in realizing the maximum opportunity in identifying a goal.

Provide the number of years that your firm has been in existence and the primary market(s) served / serve.

Provide a detailed description of at least three (3) comparable contracts which your firm has (either) ongoing or completed within the past five (5) years that relates to the scopes of work detailed in this project

- a. Name of Client:
Contract duration
Contact name and number

- b. Name of Client:
Contract duration
Contact name and number

- c. Name of Client:
Contract duration
Contact name and number

Please provide any additional information that supports your ability to qualify for award of subject contract.
