

***This document is a draft Scope of Services/Technical Specifications for a future competitive contract Miami-Dade County anticipates entering into. Scope of Services/Technical Specifications is subject to change without notice.***

***This is not an advertisement.***

Miami-Dade County, Florida

Project Title: EVN0015063 Aerial Spraying Services

**SECTION 3**  
**SCOPE OF WORK/TECHNICAL SPECIFICATIONS**

**3.1 SCOPE OF WORK**

Work will include, but is not limited to, aerial adulticiding and larviciding (liquid) applications for the control of mosquitoes in Miami-Dade County via fixed-wing and/or rotary aircraft. Services performed shall be delivered upon request by the County when surveillance data indicates aerial control measures are needed to combat high numbers of pestiferous and/or vector of disease mosquito populations. All services shall be performed in compliance with Chapter 388 of the Florida Statutes for Mosquito Control / Public Health, and in accordance with all applicable local and federal regulations and laws.

Historically, Miami-Dade County has treated between 335,000 to 350,000 acres per year for adult mosquitoes and between 6,000 to 18,000 acres per year for larval mosquitoes. All quantities are estimates and work will be completed on an as-needed basis. The County will not be held to any minimum/maximum number of acres.

The Awarded Bidder(s) shall provide all labor, materials, equipment, insurance, and any other requirements to provide Federal Aviation Administration (FAA) approved aircraft, equipped for pesticide application, per the specifications herein. Any other fees, i.e. landing and tie-down fees, etc., are the responsibility of the Awarded Bidder(s).

**3.2 GENERAL REQUIREMENTS**

1. The Awarded Bidder(s) shall have available two multi-engine fixed wing and/or rotary aircraft equipped for Ultra Low Volume (ULV) spraying of insecticides.
2. All aircraft submitted for the use on this contract must be certified by the Federal Aviation Administration (FAA), and comply with all requirements of Chapter 137, Agricultural Operations. An approved FAA congested area plan is required within 30 days before the commencement of the contract.
3. Each aircraft must have installed a GPS (Global Positioning System) navigation system with grid capability. The system must have an accuracy of 0-50 feet, and must be used on all spray missions.
4. The County reserves the right to request additional droplet size testing and recalibration of equipment at no additional cost to the County.
5. An inspection and demonstration of all aircraft and equipment may be required before the award of this solicitation.

**3.3 AVAILABILITY**

The Awarded Bidder(s) must be available for contact between the hours of 7:30 AM and 5:00 PM seven (7) days per week. The Awarded Bidder(s) shall contact the Miami-Dade County Department of Solid Waste Management's Mosquito Control Division within thirty (30) minutes of the County's first attempt for notification of an aerial spray mission. The aircraft must be operational and available for aerial spraying within six (6) hours of notification; unless otherwise indicated by the County. The primary airport used for aerial spray operations

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is Miami Executive Airport; however, other airports may be used when necessary, such as Homestead General Aviation Airport and Opa-Locka Executive Airport.

**3.4 AERIAL TREATMENT FOR ADULT MOSQUITOS**

1. Aerial adulticiding treatments shall be conducted via low-flying aircraft commencing at dusk and concluding during nighttime hours. Military-grade night-vision technology may be required for these applications.
2. Applications shall be conducted using adulticide formulations provided by the County. All aircraft used to complete this work shall be equipped with suitable ULV application equipment (i.e. ULV rotary atomized spray system) that can apply the insecticidal product at the appropriate rate and droplet size to meet the label specifications. The usual application rate is 0.66 fluid ounces per acre.
3. The underside of the aircraft wings shall be marked "Mosquito Control" for easy visual identification from a height of 200-300 feet.
4. The aircraft provided must be capable of transporting a minimum of 45 gallons of county-provided insecticide.

**3.5 AERIAL TREATMENT FOR LARVAL MOSQUITOS**

1. Aerial larviciding treatments shall be conducted via low-flying aircraft during daytime hours.
2. Applications will be conducted utilizing liquid larvicide formulations provided by the County. All aircraft used to complete work will be equipped with airflow-driven atomizers such as Micronair AU5000 for the dispersal of insecticides.
3. The aircraft provided must be capable of transporting a minimum of 100 gallons of insecticide.

**3.6 PILOTS**

All pilots employed by the Awarded Bidder(s) shall maintain all certifications required by the FAA and as described in Chapter 388 F.S. and F.A.C. 5E-13 for aerial Public Health Pest Control. Awarded Bidder may be required to provide written proof of current certifications for all pilots who provide services under this contract.

**3.7 AIRCRAFT**

1. Awarded Bidder(s) shall ensure that any aircraft used to dispense or apply insecticide during the term of this contract is registered annually with the Florida Department of Agriculture and Consumer Services (FDACS).
2. Aircraft shall also be secured when not in use to prevent or deter theft or unauthorized use.

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3. All aircraft must be in excellent condition with a current Air Worthiness Certificate and Federal Aviation Administration Certification.
4. All aircraft shall be licensed to operate over congested areas following all FAA rules and regulations throughout the contract term.

**3.8 APPLICATION**

The areas to be sprayed, the date, time, and number of acres to be sprayed with the insecticidal application will be designated by the Miami-Dade Department of Solid Waste Management's Mosquito Control Division.

A representative of the Solid Waste Management Department's Mosquito Control Division will be on hand to monitor all aspects of the spray mission in order to ensure procedures are followed that will result in a successful mission. Some but not all of the items monitored will be:

1. If weather conditions are favorable for spraying.
2. If the insecticide is applied in the target zone.
3. Aircraft is operated at the proper altitude (200-250 feet).
4. Swath widths of 1,000 feet (plus or minus 10%) are maintained.

The County will supply the insecticide to be used for both adult and larval mosquitos. The adulticide will be supplied in thirty (30) gallon poly drums. The Awarded Bidder(s) shall provide the necessary pumps and any other equipment to load the insecticide into the aircraft and be responsible for managing any spills.

A 90% + control of the adult population of salt marsh (Aedes) and pasture (Psorophora) mosquito species is expected. Control less than 90% will require a review of all pertinent factors to determine the reason. Awarded Bidder(s) shall make such a written report, and submit it to the Department of Solid Waste Management's Mosquito Control Division within 48 hours after notification by the Department that control of the adult mosquito population was less than 90% following any aerial spray mission.

**3.9 PERSONNEL**

1. Pilot and Ground Crew must all be familiar with and understand the work order and pesticide label, including any application restrictions and precautions. Awarded Bidder(s) staff are responsible for ensuring the application is conducted safely, correctly, legally, according to the label and state and federal regulations.
2. Awarded Bidder(s) staff involved in the transportation, mixing, loading, and application of insecticides during the term of this contract must hold valid public health pest control certifications from FDACS.
3. All persons performing work under this contract shall wear appropriate Personal Protective Equipment (PPE), as prescribed by product labeling and Safety Data Sheets (SDSs). The

Awarded Bidder(s) shall observe all safety precautions throughout the performance of this contract. Where there is a conflict between regulations, the most stringent shall apply.

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4. The pilot(s) shall determine any and all hazards, and locate and avoid navigation hazards.

**3.10 EMPLOYEE SUPERVISION**

The Awarded Bidder is responsible for all supervision of his/her employees and for establishing a quality control program that will ensure that all work is completed according to the specifications before that work is submitted to the County for inspection. Any delays, costs, or rejected work that results from the Bidder submitting work that is in any way incomplete or unsatisfactory are the sole responsibility of the Bidder.

**3.11 REPORTING**

Calibrated Global Positioning System (GPS) will be used to generate aerial spray mission reports. A copy of each aerial spray mission report will be submitted within forty-eight hours of each spray mission. Reports must contain the following information:

1. Name, FDACS pesticide applicator license number, and FAA license number of the licensee responsible for the application;
2. Date, start time and end time of treatment;
3. Location of treatment site, which may be recorded using any of the following designations:
  - a. County, range, township and section;
  - b. An identification system using maps and/or written descriptions that accurately identify the location and distinguish the treatment boundaries.
  - c. The legal property description; or
  - d. GPS coordinates or longitude/latitude points that delineate the treated area.
4. Name of the person requesting or authorizing the application;
5. Aircraft manufacturer, make and model;
6. FAA aircraft registration number;
7. Originating airport or airstrip;
8. Spray altitude;
9. Ground wind speed and direction;
10. Temperature;
11. Aircraft speed
12. Insecticide used;

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13. Insecticide application rate;
14. Amount of insecticide used; and
15. Number of acres sprayed.

The above information must be maintained for two years from the application date in a manner that is accessible by FDACS and the County upon request. Additional information may be requested as needed.

**3.12 COMPLIANCE / REGULATIONS / SAFETY**

**a. Legal Requirement for Pollution Control**

It is the intent of these specifications to comply with the Miami-Dade County Pollution Control Ordinance as stated in Chapter 24 of the Miami-Dade Code. This ordinance is made a part of these specifications by reference and may be obtained, if necessary, the through Regulatory and Economic Resources Department, 33 SW 2nd Avenue, Miami, Florida 33130, Telephone (305) 372-6789.

**b. Accident Prevention, Barricades and Safety**

Precautions shall be exercised at all times for the protection of persons and property. Awarded Bidder(s) performing services under this contract shall conform to all relevant Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), State and County regulations during the course of such effort. Any fines levied by the above-mentioned authorities for failure to comply with these requirements shall be borne solely by the Awarded Bidder. Barricades shall be provided by the Awarded Bidder when work is performed in areas traversed by persons, or when deemed necessary by the County.

Awarded Bidder(s) agree to perform all work in a manner that meets all accepted standards for safe practice, and to safely maintain and operate all the equipment used in the performance of this contract. The County reserves the right to issue immediate restraint or cease and desist orders to an Awarded Bidder when unsafe or harmful acts are observed or reported while performing under the contract. Hazardous conditions shall be immediately reported to the County.