

## **INTENT**

The City of Arlington is soliciting bids from qualified, experienced, and licensed and certified pesticide applicator firms or individuals to establish an annual requirement contract for mosquito control services. The selected firm or individual will be responsible for providing complete, accurate, timely services and technically and scientifically sound deliverables. Categories are inclusive of mosquito surveillance, trap catch, or complaint based larviciding, targeted adulticide application, and reporting and record keeping. The Contractor shall be experienced and able to implement programs and services based on the American Mosquito Control Association (AMCA), Centers for Disease Control and Prevention (CDC), Environmental Protection Agency (EPA), Texas Department of Agriculture (TDA), and State of Texas Department of State Health Services (DSHS) guidelines for managing quality mosquito control programs.

### **1. EPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS**

On October 31, 2011, the United States Environmental Protection Agency (EPA) released a Final National Pollutant Discharge Elimination System (NPDES) permit that regulates and authorizes certain pesticide applications under the Clean Water Act. The Pesticide General Permit (PGP) will regulate applications of pesticides into or near the waters of the United States to control mosquitoes, aquatic weeds and algae, aquatic nuisance animals, and forest canopy pests.

The Awarded Contractor shall ensure that all of their operations are conducted with complete compliance to all current regulations, including the upcoming NPDES regulation, and shall be the responsible party for all pesticide applications and shall be the primary NPDES permit holder.

### **2. SCOPE OF WORK**

This ITB is designed to protect the health and safety of the residents of the City of Arlington through an approach to detect, control, and prevent mosquito-borne disease outbreaks such as St. Louis Encephalitis (SLE) and West Nile Virus (WNV); including West Nile Fever (WNF) and West Nile Neuroinvasive Disease (WNND). The contractor shall provide support for the City's integrated vector management (IVP) program through collaborative efforts to reduce and control the abundance of disease carrying mosquitos for the duration of the traditional mosquito season, typically April through November. These specifications are all-inclusive of all overhead, labor, staging, materials, fuel, insecticide and any other costs necessary to provide the services.

### **3. LARVAL MOSQUITO CONTROL**

- a. Contractor will provide larvicidal treatment for up to 11706 curb inlets/street catch basins within all designated breeding site, as specified and approved by the City.
- b. Contractor will inspect specified habitats and treat areas of stagnate water with larvicide upon the City's request, based on review and analysis of arboviral surveillance results or other data driven specifications.

- c. All larviciding activities will be directed by the City and typically take place in the months of April through November. Contractor shall provide zero (0) to thirty (30) hours of larval site inspections and larvicide application weekly as specified by the City.
- d. Contractor will maintain field records of all larvicide applications including product, dosage rate, date, staff, street and GPS coordinate information. Data shall be reported to the City weekly.
- e. Contractor shall utilize only EPA registered larvicide briquettes, granular or liquids.

#### **Arbovirus Surveillance and Mosquito Populations Monitoring**

- a. Contractor will have available four (4) BG Sentinal traps weekly for the collection of live adult mosquitos. Collected specimens must be delivered to 1101 South Main Street Fort Worth, Texas 76104 Tarrant County Public Health Vector Control Lab, in accordance with state and federal protocols, for analysis.
- b. Contractor will have available fifteen (15) gravid traps weekly for the collection of live adult mosquitos. Collected specimens must be delivered to 1101 South Main Street Fort Worth, Texas 76104 Tarrant County Public Health Vector Control Lab, in accordance with state and federal protocols, for analysis.
- c. City will determine all trap sites. Trap sites are based on information including historic “hot spots”, complaints, human cases and relative abundance and or/geographical distribution of mosquitos. Trapping typically occurs in the months of April through November. Traps are set equitably throughout the City with both static and rotating trapping patterns. City and/or Contractor may set all or part of the weekly traps as needed.
- d. Trap failures due to equipment malfunction or trap nights lost due to trap being set on nights of heavy predicted storms will not be charged to the City.
- e. Adult and larval resistance testing capabilities.
- f. Rapid analyte measurement platform (RAMP) testing for West Nile Virus capabilities.

#### **Adult Mosquito Control**

- a. Mosquito control service Targeted Ground Spraying Cycle will be required on an average of twice a week or upon request by the City. Targeted Ground Spraying Cycle may consist of zero (0) to one-hundred ninety eight (198) square miles per week. **Frequency and duration of Targeted Ground Spraying Cycle may vary depending on need and as determined by City.**
- b. Mosquito control service Special Request Spraying Cycle will be required upon request by

the City, the Contractor will respond to Special Request Spraying Cycle request within a 24-hour advance notice.

- c. Targeted Ground Spraying Cycle and Special Request Spraying Cycle may consist of the following methods: Truck Mounted Ultra-Low Volume (ULV), ATV (all-terrain vehicle) ULV, and/or backpack barrier application. Targeted Ground Spraying Cycle and Special Request Spraying Cycle requests will be determined based on phased response criteria closely modeled after the CDC's Guidelines for Surveillance, Prevention and Control. Application method shall be assessed by the City on a case by case basis.
- d. Contractor shall maintain permanent records of all ULV application via written records and GPS information.

#### **4. METHOD OF OPERATIONS**

- a. The City shall provide the Contractor a tentative schedule for Spraying Cycles and mappings, which identify the City's service area for spraying. Prior to initiating any given Spraying Cycle the Contractor shall contact the City for approval and notification of said Cycle.
- b. The Contractor shall coordinate with the City regarding a tentative schedule of areas to be sprayed.
- c. The City shall contact the Contractor for Special Request Spraying and will provide the Contractor with mapping which identifies the requested locations for spraying and the requested date of spraying.
- d. The Contractor shall provide the City with the estimated hours required to complete the Special Request Spraying and an estimated time of arrival.
- e. Spraying activities shall be after dusk and before dawn, unless prior approval is given by the City.
- f. Spraying activities shall require prior approval by the City of Arlington.
- g. The Contractor shall complete any given Spraying Cycle within one (1) working day, unless there is a mechanical breakdown or if adverse weather conditions occur.
- h. The Contractor shall use the Mosquito Adulticide chemical Titled "Perm X 3030 or equivalent" at a ratio of 1 Gallon to 4 Gallons of B-V Associates, Inc. formulating oil for all spraying. The Contractor shall be responsible to use all products in accordance with product labels.
- i. The Contractor shall maintain field records of all adulticide or larvicide applications including product, dosage rate, date, staff and GPS coordinate information. These records shall be provided to the City upon request.
- j. All mosquito control chemicals shall be mixed by a certified pesticide applicator licensed with the State of Texas Department of Agriculture.

- k. Spraying will be done with an Ultra-Low Volume (ULV) non-thermal, aerosol, cold fog mosquito sprayers.
- l. Spraying will be done at a speed not to exceed 15 miles per hour (mph) and shall be applied at a rate of 4.0932 fluid ounces per minute at 15 mph or as otherwise required by the product label and sprayer manufacturer specifications. However, under no conditions shall the application speed exceed 15 mph.
- m. The operator/pesticide applicator shall exercise due care during spraying operations, especially when there is the possibility that citizens may be present in the street or ROW. These actions are to help prevent the resident from coming into direct contact with the chemical.
- n. If the operator is approached by a resident with a complaint, the operator will obtain the name, address, and telephone number of the resident and the nature of the complaint at that time. The operator will submit this information to the City the following workday and, if the complaint is of such a nature that requires immediate attention the operator will contact the designated representative for the City.
- o. All operations described in these specifications shall be conducted by the Contractor's personnel and the expense of all such operations shall solely be the Contractor's Responsibility.
- p. Contractor's Personnel that are loading or otherwise directly handling pesticides must be certified. Copies of staff certification shall be provided with the bid submittal.
- q. The Contractor shall provide his/her (its) own equipment, labor, fuel, chemicals and any other materials necessary to complete the required work. The Contractor shall be responsible for the maintenance and repair of his/her (its) own equipment and the availability, presence and supervision of his (its) employees.
- r. The Contractor is required to have a competent and experienced supervisor/foreman on duty during each shift (nights and days) when work is being performed under this Contract. The Contractor shall not withdrawal or substitute any, supervisor (s) spray trucks without prior written approval of the City.
- s. There shall be no subcontractors used by the Contractor to fulfill any items or conditions of the Contract without the prior written consent of the City.
- t. All equipment and personnel will move in the same direction as traffic at all times during all spraying operations. The operator shall comply with all traffic regulations including adherence to speed zones at all times. The Contractor shall provide the City complete GPS data for vehicles conducting mosquito control activities including spraying, larviciding, trapping or any other related duties upon request.

- u. The Contractor shall provide the City with each invoice a copy of the completed “Pesticide Applicator Record”, including the portion of the chemical label with the rate of application information for each spraying application.

## **5. WEATHER**

For the purpose of this Contract, the National Weather Service at Dallas Fort Worth, Texas shall be the weather forecasting and reporting agency. Any forecast by the National Weather Service shall be deemed to extend only twelve (12) hours into the future.

- a. No pesticide applications shall be conducted when there are climatic conditions present or forecast that would make such an operation ineffective or dangerous. These climatic conditions include, but are not limited to, rain, snow, ice, sleet, and winds.
- b. The Contractor may suspend operations if weather conditions are such that pesticide application cannot be carried out in an effective manner. If such suspension occurs, the Contractor shall immediately notify the City or its designee.
- c. The City or its designee shall at his/her discretion have the right to order the suspension of pesticide application operations whenever, in his/her judgment, spraying operations cannot be carried out in an effective manner.

## **6. EQUIPMENT AND MOSQUITO CONTROL CHEMICALS**

- a) Larval Surveillance:
  - a. Larval Dipper
  - b. Larval Collection Bags
  - c. Rearing Jars
- b) Larval Control equipment can include:
  - a. Handheld or Backpack liquid larvicide sprayers
  - b. Handheld or Backpack Granular dispensers/blowers
- c) Adulticide Equipment:
  - a. Vehicle Mounted Variable Flow ULV Foggers.
- d) GPS and Mapping capabilities
- e) RAMP testing capabilities – RAMP: Rapid Analyte Measurement Platform from Response Biomedical: <https://responsebio.com/arbovirus/>

- f) Resistance Testing is usually carried out with Bottle Bioassays.  
<https://www.cdc.gov/mosquitoes/mosquito-control/professionals/cdc-bottle-bioassay.html>
  - i. The equipment used for spraying shall be of sufficient type, capacity and quantity to safely and efficiently perform the chemical application work as specified.
  - ii. All equipment must be equipped with a flashing beacon and applicable slow-moving warning signage.
  - iii. All equipment (including support equipment) to be used by the Contractor shall be listed as part of the “Work Plan” section of the Contractor’s Information Report, including the age of the equipment. All such equipment is subject to the inspection and final approval of the City. Such approval may require on-site demonstration of the capability of any proposed equipment.
  - iv. All vehicles used by the Contractor must be performance worthy by visual and operational inspection.

## **7. QUALITY COMPLIANCE**

- a. The City shall have the right to perform a complete inspection of all vehicles and mosquito control equipment at any time throughout the term of the Contract. Should any vehicle or mosquito control equipment, when inspected, and in the determination of the City, not meet standards that the City feels are necessary to complete the Contract or to operate safely, the City may require such vehicle or equipment to be brought to standards that would meet the technical specifications of the contract before being placed back in service.
- b. The City shall have the right to perform routine inspection and testing of Mosquito Control Chemicals and Compliance of the Method of Operation to assure maximum efficiency in the control of the mosquito population and compliance of contract specifications.
- c. Bidder guarantees services offered will meet or exceed specification identified in this bid invitation.

## **8. REPORTING AND RECORDS MANAGEMENT**

- a. Project and working files will be kept in the CONSULTANT’s office. Documents generated or received by CONTRACTOR will be forwarded to the CITY as they are generated or received by the CONTRACTOR.

- b. CONTRACTOR shall provide written documentation of all services provided to the City and retain application records as directed by Texas Department of Agriculture Structural Pest Control Service (TDA/SPCS) and Texas Commission on Environmental Quality (TCEQ) TPDES General Permit TXG870000. Consultant shall act as a For Hire Commercial Applicator under the Level IB Self Certification of the City of Arlington under the TPDES General Permit TXG870000.
- c. The CONTRACTOR shall provide to the City with each invoice a copy of the completed "Pesticide Applicator Record", including the portion of the chemical label with the rate of application information for each spraying application.