

Zika Virus Vector Control Interventions  
Alabama Department of Public Health  
Contact Person: Kelly Stevens (334) 206-7934  
kelly.stevens@adph.state.al.us

**A. Scope of Work**

This work involves reducing the population of mosquitoes to prevent the transmission of Zika virus vector control interventions to include, but not be limited to: 1) residual spraying of houses, 2) household mosquito control, 3) non-residential mosquito control, 5) aerial spraying, and 6) ground spraying. The Contractor shall also provide Community Outreach and Planning support. These activities must involve routine reporting of executed mosquito control actions, including actual work and maintenance logs.

It is expected that the contractor shall use appropriate insecticides to which *Aedes aegypti* and *Aedes albopictus* has not been determined resistant in the given area to be treated by task order. At present, the government has determined that resistance data requires the use of deltamethrin in some areas. The government has also determined that larviciding using VectoBac is the best method in specific areas. The contractor should regularly share information with department personnel on any new data they acquire regarding insecticide resistance. Contractor must have applicable permits by the Alabama Department of Agriculture and Industry.

**Period of Performance**

The period of performance shall be from the date of award through Calendar Year 2021. The anticipated award date for this request for proposal is December 1, 2016.

**Non-aerial Spraying**

Conduct vector control measures individually, or in combination, using either residual spraying of residences, household mosquito control, institutional mosquito control, non-residential mosquito control, and ground spraying treatments. Activities will include:

- I. Conduct insecticide application activities within identified/defined priority risk areas as directed by the department.
- II. Implement specific vector control interventions in and around the homes of infected individuals or other specified locations, including targeted residual spraying, household mosquito control and harborage spraying with EPA-approved insecticides and source reduction (i.e. container elimination, and larviciding).
- III. Implement vector control measures at institutional locations and non-residential properties through:
  - a. Ground spraying by Ultra Low Volume (ULV) larviciding (daytime) and/or adulticiding (via handheld and/or vehicle-mounted mechanisms during specified hours around dusk and dawn) in selected high-risk areas. Applications of larvicides and/or adulticides, at the direction of the department. Subsequent applications will be conducted following consultation with and approval by the department.
  - b. Source reduction by container elimination and container larviciding.
  - c. Harborage spraying of vegetation

**Aerial Spraying.**

Implement aerial spraying of adulticides and larvicides over selected high-risk areas. This encompasses all activities to accomplish this task.

Zika Virus Vector Control Interventions  
Alabama Department of Public Health  
Contact Person: Kelly Stevens (334) 206-7934  
kelly.stevens@adph.state.al.us

**Treatment Site(s)**

The application area(s) will be developed and provided to Contractor in the following format options (listed in order of decreasing preference):

- I. Color image file of map with electronic mark-up of treatment areas, exclusion areas, and known hazards.
- II. In the absence of electronic media, useful paper maps indicating treatment areas, exclusion zones, and hazards. Paper maps should be clear, 8.5 by 11 inches or no larger than 36 by 36 inches, and suitable for rapid processing.

**Response Time**

- I. Guarantee to have response team and ground support on route within 24 hours of notification.
- II. Contractor agrees to have operations in position and active within 48 hours of time of notification.

**B. Specifications/Requirements**

Provide a total cost to complete this project to include all freight related charges, application, materials, chemical, travel or miscellaneous handling.

Area	Service Description	Unit of Service	Price Per unit
<b>Public Relations/ Community Education Support</b>	<b>Public Relations Assistance.</b> Public information announcements, news releases, service and pesticide product fact sheets, community education pieces, public communications guides, etc	Per project	
	<b>Yard Inspections.</b> Inspect yards for mosquito activity and potential breeding site habitats, tip/toss anything that could be a potential breeding site, treat with larvicide and or adulticides if necessary		
<b>Surveillance</b>	<b>BG-Sentinel Trapping.</b> Trapping adult mosquito with BG-Sentinel Trap(s) to confirm presence of adult <i>Aedes aegypti</i> and <i>Aedes albopictus</i> mosquitoes. Service must include surveillance reports of mosquitoes trapped.	Trap night	
	<b>Miniature Light Trapping.</b> Trapping adult mosquito with Light Traps to understand makeup of mix of mosquito species in area.	Trap night	
	<b>Ovitrap</b> - Setting ovitraps to collect eggs of <i>Ae albopictus</i> and <i>Ae aegypti</i> to confirm presence and estimate density. Service must include surveillance reports of location of ovitrap and eggs per trap. Service must include capacity to hatch eggs and identify to species.	Trap night	

Zika Virus Vector Control Interventions  
Alabama Department of Public Health  
Contact Person: Kelly Stevens (334) 206-7934  
kelly.stevens@adph.state.al.us

<b>Operational Mapping</b>	<b>Operational Mapping.</b> Development of surveillance, larval and adult control maps for the implementation of community program services.	Per square mile	
<b>Larval Control</b>	<b>Larval Site Inspection.</b> Inspection of potential larval sites. Larval samples will be taken in each site and include the following services: <ul style="list-style-type: none"> <li>• Identified to species</li> <li>• Number of larvae per dip recorded</li> <li>• Post project inspection report will be prepared for the community.</li> </ul>	Larval site	
	<b>Hand or Backpack Equipment Liquid Larviciding.</b> Larviciding with hand or power backpack equipment with Vectobac WDG at the rate of 0.5 pounds per acre 0.25 Acre \$24.17 of habitats found developing larvae during inspection for residual control.	0.25 Acre	
	Larviciding with Natular G30 applied per 1/10 of pound	0.10 lb	
	Hand Larviciding with Natular DT (each tablet applied)	Tablet	
	Hand Larviciding with Coco Bear (each oz. applied)	Ounce	
	Catch Basins with Natular T30 (per tablet applied)	Tablet	
	Catch Basins with Natular XRT (per tablet applied)	Tablet	
<b>Adult Control</b>	<b>Community-Wide Truck ULV Spraying.</b> Truck ULV spraying of a community spray route with Duet Dual-Action Adulticide at the dosage rate of 0.79 fluid ounces per acre. GPS technology records operational coverage and provides post-mission reports for documentation. 500 Mile Minimum Callout.	Mile	
	<b>Community-Wide Truck ULV Spraying.</b> Truck ULV spraying of a community spray route with Biomist 4+4 ULV at the dosage rate of 3.1 fluid ounces per acre. GPS technology records operational coverage and provides post-mission reports for documentation. 500 Mile Minimum Callout.	Mile	
<b>Aerial Spraying</b>	Implement aerial spraying of adulticides and larvicides over selected high-risk areas. This		

Zika Virus Vector Control Interventions  
Alabama Department of Public Health  
Contact Person: Kelly Stevens (334) 206-7934  
kelly.stevens@adph.state.al.us

	encompasses all activities to accomplish this task.		
<b>Resistance Testing</b>	<b>Backpack Residual Barrier Spraying.</b> Backpack barrier applications with Flit 13.3 EC (mixed at 1:24 dilution – 0.5% emulsion) per gallon applied for residual control of adult mosquitoes in harboring areas, or for community special events.	Gallon	
	<b>Resistance Testing of the Adult Mosquito Population.</b> Performance of bottle bioassay tests per CDC protocol of the local mosquito population for vector species of concern to determine resistance status, including the following services: <ul style="list-style-type: none"> <li>• Trapping of live adult mosquitoes</li> <li>• Bottle Bioassay for specific adulticide</li> <li>• Report of results</li> </ul>	Test	

**C. Required Insurance**

<b>Minimum Required Amounts of Insurance Coverage</b>	
<b>Non-aerial and/or aerial requirements is listed by each type of insurance</b>	
<b>Type of Insurance</b>	<b>Each Occurrence/Aggregate</b>
<i>Workers' Compensation</i>	Statutory Limits
<i>Employer's Liability</i>	\$1,000,000 Each Accident
Bodily Injury by Accident	\$1,000,000 Each Employee
Bodily Injury by Disease	\$1,000,000 Policy Limit
Bodily Injury by Disease	
<i>Commercial General Liability</i> (occurrence based)	Bodily Injury and Property Damage \$1,000,000 Each Occurrence Limit \$2,000,000 Aggregate Limit \$5,000 Medical Expense each person \$2,000,000 Products/Completed Operations Aggregate Limit \$1,000,000 Personal Injury and Advertising Liability \$50,000 Damage to Premises Rented \$15,000,000 Pollution
<i>Pollution Liability</i>	\$1,000,000 Each Occurrence Limit
Policy to include endorsement CG2812, "Pesticide/Herbicide Applicator Coverage," or its equivalent.	
<i>Automobile Liability</i>	\$1,000,000 Combined Single Limit (for each accident)
All Owned, Hired and Non-Owned Vehicles	
<i>Umbrella/Excess Liability</i>	\$15,000,000 Per Occurrence
<i>Chemical Liability</i>	\$1,000,000 Per Occurrence \$100,000 Bodily Injury \$100,000 Property Damage

Zika Virus Vector Control Interventions  
Alabama Department of Public Health  
Contact Person: Kelly Stevens (334) 206-7934  
kelly.stevens@adph.state.al.us

<i>Aviation and Hull Liability</i>	Bodily Injury and Property Damage \$1,000,000 Each Occurrence Limit \$2,500,000 Passenger Sub-Limit \$15,000,000 Excess Aircraft Liability, excluding occupants
------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**D. Operational Monitoring and Surveillance Options:**

- I. Mosquito population monitoring for efficacy determination.
- II. Other trapping methods based on the species may be utilized with the department prior approval.

**E. Invoicing**

Payment for the services will be billed on a per application basis. Total price must include all costs, including cost of chemicals. Billing will be based per acre or mile treated.

**Pricing Structure:**

Pricing will be based on:

- I. Acres for non-aerial spraying other than vehicle mounted equipment systems.
- II. Include pricing by the mile for the vehicle mounted Ultra Low Volume equipment systems.
- III. Name of Pesticide
- IV. Dosage Rate per acre or mile based on the spraying type.
- V. Total Price Per Acre or mile for spraying type including pesticide

**F. Evaluation of proposals**

The department will perform a qualitative technical review of proposals. The technical evaluation will be performed in accordance with the following:

<u>Criteria</u>	<u>Points or relative value of criteria</u>
Technical Approach	40 points
Personnel/Staff Expertise, Experience, and Current Licenses	30 points
Ability to cover the state	20 points
Management Plan	10 points

**G. Submission Requirements:**

All applications must be submitted to Kelly Stevens via email no later than November 1, 2016.