

## **LiDAR Technology Workshop**

### **Florida Keys Mosquito Control District**

Marathon Office  
503 107<sup>th</sup> Street  
Marathon, FL 33050

**February 18, 2026 1:33 pm**

The Board of Commissioners of the Florida Keys Mosquito Control District held a LiDAR Technology Workshop on February 18, 2026, at the FKMCD Marathon Office.

**Present Were:** Phillip Goodman, Chairman; Bette Brown, Secretary/Treasurer; Brandon Pindor, Commissioner; Jill Cranney, Commissioner; **Andrea Leal, Executive Director; Hunter O'Connor, Board Attorney.** Dr. Stanley Zuba, Vice-Chairman, was present via Zoom.

**Employees Present Were:** Lauren Bouchard, Director of Finance; Mikki Coss, Director of Operations; Robert Lee, Director of Aerial Operations; Chad Huff, Public Education & Information Officer; Michael Behrend, Director of Human Resources; Deanna Darias, Executive Assistant; Tony Nunez, Chief Technology Officer; Rochele Miller, Purchasing Agent/Financial Analyst; Abigail Smith, Education Coordinator; John Davis; Middle Keys Supervisor.

**Invited Guests Present:** Atom Rosales, Director of Technical Development, Collier Mosquito Control District was present via Zoom; Dr. David Hoel, Executive Director, Lee County Mosquito Control District; Dr. James Dunford, Research Director, Lee County Mosquito Control District; Aaron Lloyd, Assistant Director, Lee County Mosquito Control District; Mike Vigus, Chief Pilot, Lee County Mosquito Control District; Nick McCoy, Pilot, Lee County Mosquito Control District; Jennifer McBride, Director Communications, Lee County Mosquito Control District.

**Approval of Agenda:** *Chairman Goodman asked the Board if there were any corrections or additions to the agenda, hearing none, the agenda was unanimously approved.*

**Community Input:** None.

Chairman Goodman announces the purpose of this workshop is to discuss LiDAR technology and its use in mosquito control in Florida.

**Discussion:** Andrea Leal, the Executive Director, stated that the purpose of this workshop is to explore the potential application of LiDAR technology in mosquito control efforts. She mentioned that this idea has been considered by mosquito control districts in Florida for several years and invited representatives from Collier County and Lee County to share their experiences with the technology.

Mr. Atom Rosales, Director of Technical Development at the Collier Mosquito Control District, shared details about using drone-mounted LiDAR to map mangrove habitats and identify possible mosquito breeding sites. He explained that LiDAR elevation models can help improve the accuracy of larvicide treatment areas and increase operational efficiency.

Mr. Aaron Lloyd from the Lee County Mosquito Control District provided an overview of how his county has implemented LiDAR technology. He described how LiDAR mapping has been used to locate mosquito breeding sites and reduce treatment zones in certain areas. Mr. Lloyd also talked about ongoing efforts to expand LiDAR mapping and incorporate the data into field inspections and operational planning.

Commissioners asked various questions about the technology, its potential costs, and how it could be applied operationally. Staff discussed the option of conducting a limited pilot project using contracted LiDAR services to assess its potential advantages for the district.

The Commissioners showed support for investigating the technology to improve mosquito surveillance and treatment planning. The Board thanked the presenters for sharing their knowledge and expertise. Supporting presentation materials were provided to the Board.

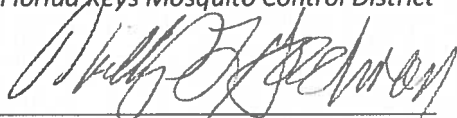
**Adjourn:** There being no further business to come before the Board, the meeting was adjourned.

*Respectfully submitted,*



Andrea Leal  
Executive Director

Board of Commissioners  
Florida Keys Mosquito Control District



Phillip L. Goodman, Chairman



Bette Brown, Secretary-Treasurer

For additional information, please refer to [www.keysmosquito.org](http://www.keysmosquito.org).