

Preventing Zika Transmission with Environmentally-Friendly Mosquito Control

The Sabre Companies

Presented to the State of Florida
July 2016

World-Renowned Reputation

Environmentally-Friendly Microbial Technology

- Sabre's reputation as a **first responder to the world's toughest biological threats** is unmatched; from the Anthrax terrorist attacks on Washington, D.C., to the worst Avian influenza (Bird Flu) outbreak in U.S. history, Sabre's environmentally-friendly technology and experts are trusted around the globe to protect the public health from harmful pathogens.
- Sabre's **EPA-registered** technology provides a safe and environmentally-friendly alternative to today's pesticides and larvicides, which can produce harmful side-effects and often produce residual toxicity.
- Sabre's technology and experienced experts have developed a **safe and environmentally-friendly way to combat the spread of the Zika virus** by controlling disease-transmitting mosquitos.
- Sabre's environmentally-friendly and **EPA-registered technology** can inactivate (kill) mosquitos at different stages of their larval development – targeting mosquito larvae before they can mature into mosquitos.
- Sabre's microbial-technology not only kills mosquito larvae, but **it is also used to treat drinking water**, clean produce, and sterilize laboratories.



Organic Biocide

Safely kills mosquito larvae with no genetic mutations

- Sabre's technology is patented and proprietary. Our scientists use common, naturally-occurring compounds to produce a highly-pure, environmentally-friendly biocide that oxidizes and **inactivates certain cells and kills the mosquito larvae.**
- Sabre has **harnessed the power of Chlorine Dioxide** (ClO_2), an extremely diverse and powerful sterilant, by mastering the science of high-volume onsite (mobile) production and use — making Sabre the world leader in responding to and treating pathogen threats.
- Mosquitos and **mosquito larvae cannot build up resistance** given that Sabre's technology uses oxidation — there is no possibility of genetic mutation with Sabre's environmentally-friendly molecular technology.
- Sabre's **mosquito control solution is applied conventionally** to mosquito habitats using Sabre's patented and proprietary technology and equipment in combination with today's conventional application equipment.



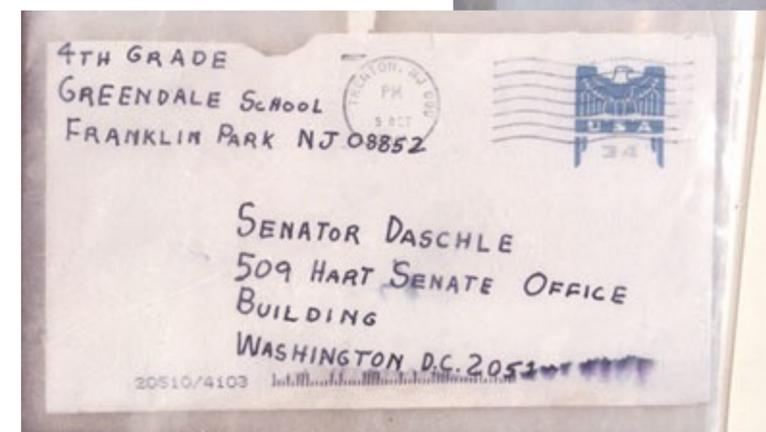
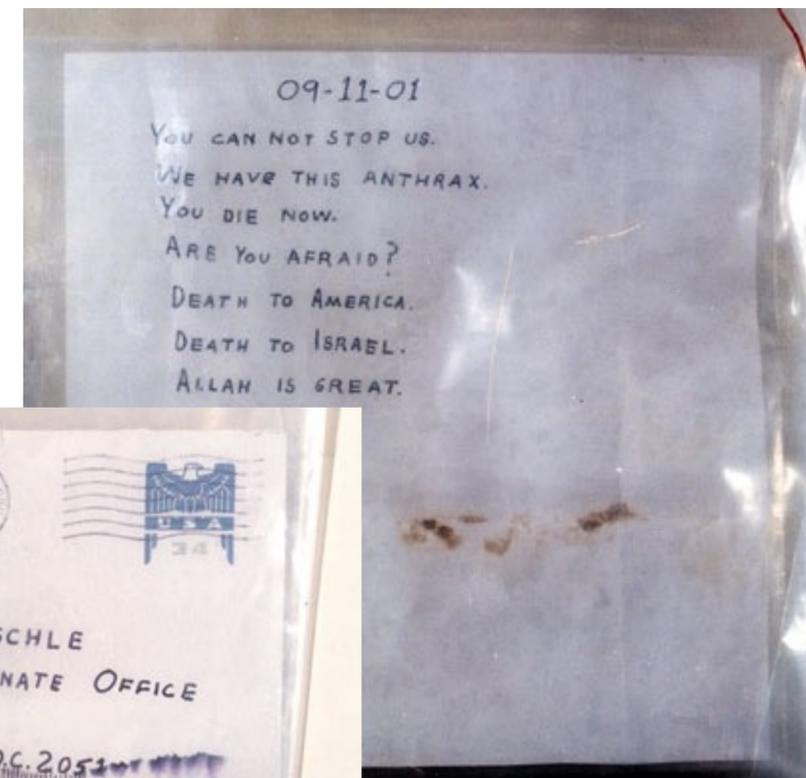
Unrivaled Experience and Abilities

- **Anthrax:** Selected by U.S. officials to decontaminate buildings hit by the Anthrax terror attacks in Washington, D.C following 9/11
- **Avian Influenza:** Chosen by the USDA to decontaminate poultry farms impacted by the worst Bird Flu outbreak in U.S. history
- **Drinking Water:** Easily treat more than 2.5 times the daily water needs of Los Angeles
- **Waste Lagoons:** Remediated various highly-toxic lagoons including a 450M gal manufacturing effluent lagoon
- **Large Facilities:** Mold treatment of a 12M cubic feet hospital saved millions of dollars and future remediation costs — completed in five days
- **Katrina:** Remediated massive mold contamination across the Southeastern U.S. after hurricane Katrina
- **Pharma:** Viral decontamination of a large pharmaceutical biologics manufacturer
- **Ebola:** Contacted by the US government to establish decontamination protocols and infection controls



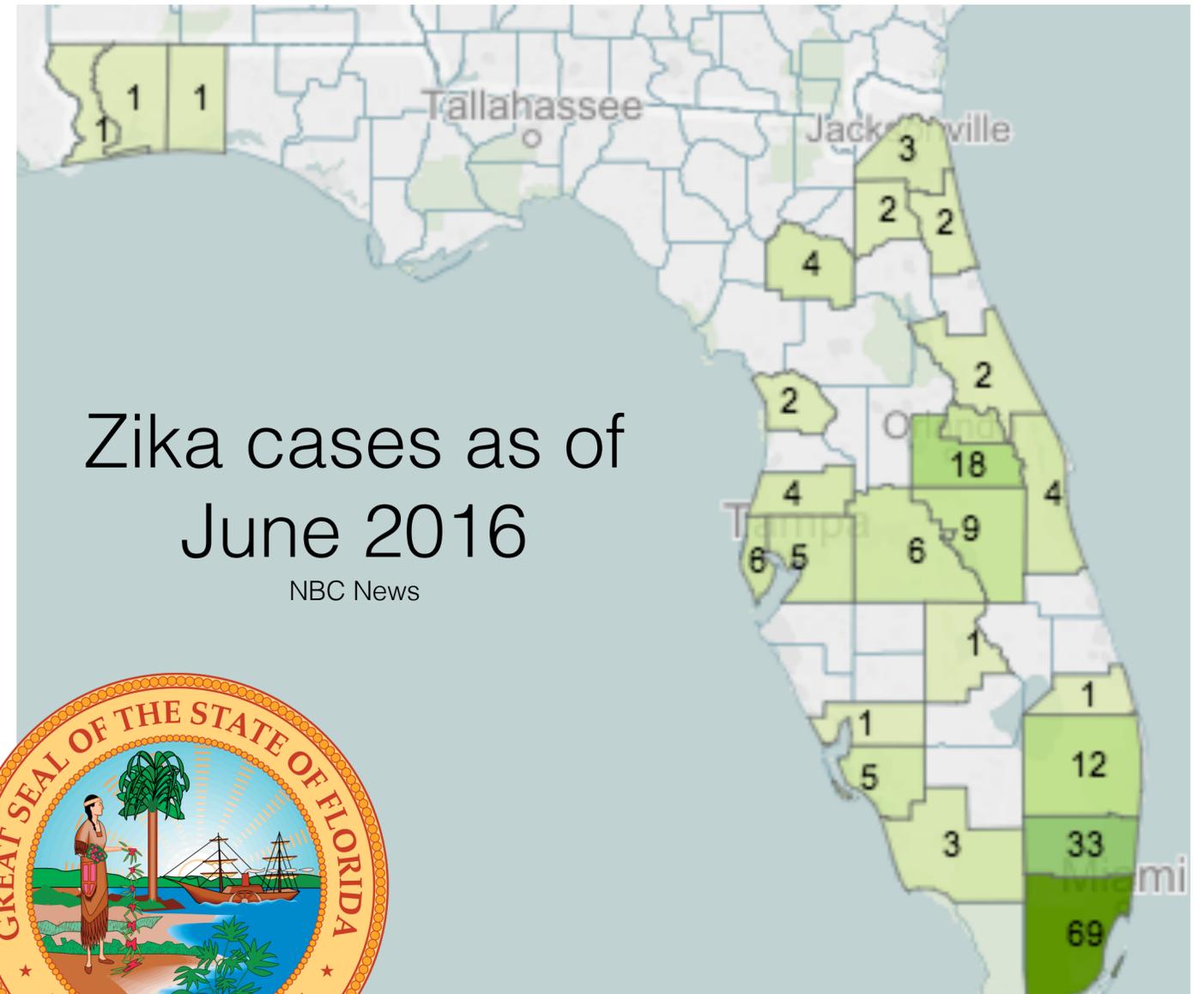
Trusted Approach

- **Go-to technology and team** recognized by government agencies (EPA, USDA, DOD, Homeland Security, et. al.) and industry leaders across the globe as the authority on biological decontamination and prevention
- **U.S. EPA-registered**, the only environmentally-friendly sterilant that provides broad-spectrum decontamination for the world's toughest biological contaminants on porous and non-porous surfaces (No.73139-3)
- **National Academy of Science** recognizes the technology as the standard for large-scale biological decontamination
- **U.S. Department of Agriculture** approved Sabre's bio-technology for remediation of Highly Pathogenic Avian Influenza (Bird Flu)
- **Albany Medical College (Department of Immunology & Microbial Disease)** issued a confidential study report validating the efficacy of Sabre's treatment to kill mosquito larvae



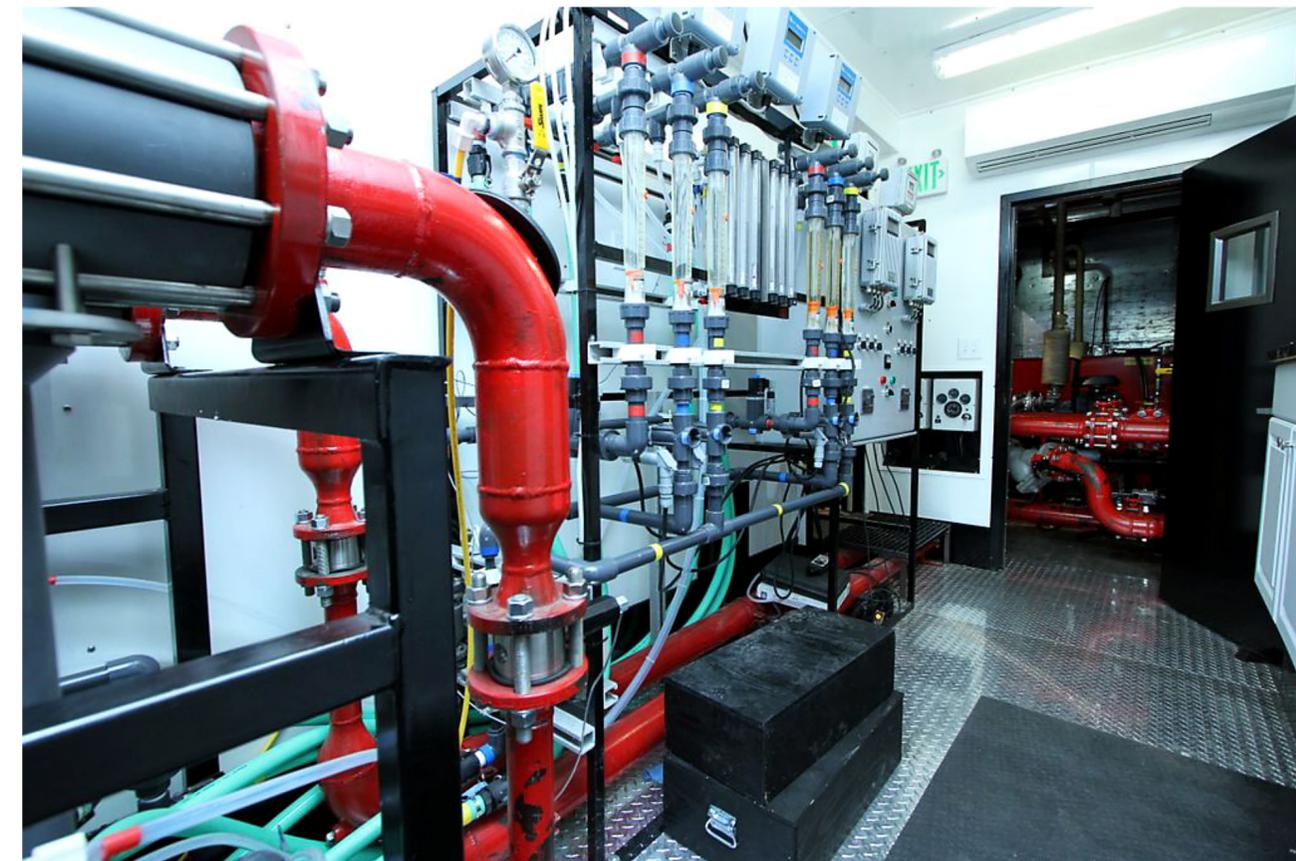
Meet or Exceed Florida's Mosquito Control Mandate

- Complement Florida's mosquito abatement goals
- Easily integrates with existing mosquito management policies and plans
- Helps reduce the use of harmful pesticides
- Protects public health and the environment
- Targets mosquito larval habitats
- No need to rotate control product
- EPA-registered sterilant
- Easily train existing application specialists if necessary
- Can even be applied in source reduction efforts where proper storm drainage is questionable



Preventing Zika Transmission with Environmentally-Friendly Mosquito Control

- **Customized protocols and solutions will fully integrate into existing processes** to protect against and remediate the full spectrum of pathogen threats
- **We safely destroy harmful biological threats** with DiKlor™ – the purest form of Chlorine Dioxide (ClO_2) on the market; leaving **no residual toxicity**...and it's "green"
- **Patented and proven** highly-pure ClO_2 generation systems and treatment processes are effective for a wide range of diverse environments and situations
- Our **EPA-registered** technology provides a safe and environmentally-friendly alternative to today's pesticides and larvicides
- A **Water-soluble, selective oxidant** that is applied with our proprietary fluid and/or fumigation processes
- Mosquitos and larvae **cannot develop resistance** to oxidation — Sabre's technology also destroys biofilm, so bacteria and viruses cannot develop resistance
- Sabre's proprietary GPS/GIS technologies allows for **real-time data monitoring and reporting** (qualitative and quantitative)



Sabre can Provide Additional Biologic Response and Protection Solutions to the State of Florida

- **Water Quality:** Florida is currently engaged in many long-term planning and innovation search activities related to **water quality and supply**. Saber's water purification solutions may provide great opportunities to assist state and local governments in charge of clean water supply to protect water quality and public health.
- **Agriculture:** Florida's citrus farming is in great need of innovative solutions to rid Florida's groves of harmful bacteria that causes citrus **canker and HLB (greening)**. Saber's environmentally-friendly microbial-technology could also help solve the problem and have a positive impact on the state's agribusiness and economy.
- **Healthcare Solutions:** Healthcare is a major driver of the state's economy, from hospitals to large healthcare practices. Saber's experience in remediating and protecting healthcare facilities from harmful pathogens are unrivaled.
- **State Property Remediation:** Sabre's technology could help protect and remediate correctional, health care, historical and office buildings.
- **State Emergency Preparedness and Response:** Sabre has extensive experience with natural and human-born biological and chemical events — our preparedness and response solutions are unrivaled.

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Additional information and documentation can be provided upon request.

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