

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda

 X Resolution or Ordinance (Blue) _____ Waiver of First Requested
_____ Recommendations of Boards, Commissions & Committees (Green)
_____ Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: Scott Niehaus, Village Manager

DATE: May 7, 2020 (COW) (B of T) **Date:** May 21, 2020

TITLE: Mosquito Control Services Revised Agreement for 2020-2021

SUBMITTED BY: David Gorman, Assistant Director of Public Works *DRZ*

BACKGROUND/POLICY IMPLICATIONS:

A request from Staff to approve a revised Agreement with Clarke Environmental Mosquito Management for mosquito control services for 2020 and 2021. This Agreement replaces an Agreement for 2020 that had been approved on March 19, 2020.

FISCAL IMPACT/FUNDING SOURCE:

\$68,280.00 from Account #101.270. 325.75350

Review (as necessary):

Village Attorney X _____	Date _____
Finance Director X _____	Date _____
Village Manager X _____	Date _____

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.

RESOLUTION
R___-20

A RESOLUTION AUTHORIZING SIGNATURE OF
PRESIDENT AND CLERK ON AN AGREEMENT

WHEREAS, the Corporate Authorities of the Village of Lombard have received a proposed Agreement between the Village of Lombard and Clarke Environmental Mosquito Management, Inc. regarding mosquito management for 2020 and 2021, as attached hereto; and

WHEREAS, said Agreement would replace a previous Agreement for 2020; and

WHEREAS, the Corporate Authorities deem it to be in the best interest of the Village of Lombard to approve the Agreement for 2020 and 2021.

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS as follows:

SECTION 1: That the Village President be and hereby is authorized to sign on behalf of the Village of Lombard said Agreement, as attached hereto.

SECTION 2: That the Village Clerk be and hereby is authorized to attest said Agreement, as attached hereto.

Adopted this 21st day of May, 2020.

Ayes: _____

Nays: _____

Absent: _____

Approved this 21st day of May, 2020.

Keith Giagnorio
Village President

ATTEST:

Sharon Kuderna
Village Clerk



MEMORANDUM

TO: Scott Niehaus, Village Manager

THROUGH: Carl S. Goldsmith, Director of Public Works *g*

FROM: David P. Gorman, PE, Asst. Director of Public Works *DPG*

SUBJECT: Mosquito Control Services Revised Agreement for 2020-2021

DATE: May 7, 2020

Attached is a revised Agreement with Clark Environmental Mosquito Management for 2020-2021 that will replace an Agreement for 2020 that had been approved by the Board of Trustees on March 19, 2020. Staff requests that this revised Agreement be forwarded for the Board of Trustees' consideration.

Background:

In effort to reduce costs due to Covid-19 budget pressures, Staff had asked Clarke for a revised proposal to reduce the Agreement scope, retaining only a bare minimum program to specifically control the Culex mosquito species that transmit West Nile Virus, being the primary public health concern. Their revised scope would save \$20,430/yr (\$88,710 minus \$68,280) by eliminating the treatment of 350 backyard catch basins, ceasing spraying for 4 community events, changing from four 30-day larvicide briquets to one 180-day briquet in all street catch basins, and reducing Culex monitoring from 6 to 5 rounds. Consequences of these changes would be an increase in nuisance floodwater mosquito broods, advising residents to treat their own backyard catch basin, and avoiding removal of the briquets by vactoring from May through September.

To summarize, the following services will remain in the Agreement:

- Three larval site inspections and the subsequent larvicide application for 192 sites,
- Five additional targeted inspection of 74 known breeding sites,
- Three targeted late-season inspections of 63 known Culex mosquito breeding sites,
- One 180-day larvicide application in 4,320 street catch basins,
- Three pre-hatch applications by helicopter of 60 acres of standing water sites, and
- A phone hotline for residents.

The control program will continue with pre-hatch and larvicide treatments. Pre-hatch and larvicide applications are highly effective against Culex mosquitoes. The Agreement continues to specify the more environmentally responsible larvicide called Natular that is derived from a soil bacterium and chrysanthemum flowers. Aedes (floodwater) mosquitoes do not carry WNV and they breed in open water as well as damp areas, including wet grass. Traps have been collecting both Culex and Aedes mosquitoes.

Adulticide treatment (spraying) is not very effective or efficient in managing either Culex or Aedes mosquitoes except for short-term relief. The cost for additional spraying by trucks on all Village streets would cost \$80/mile. Given our 154 miles of streets, each Village-wide application would cost \$12,320. This would only be used if necessary for temporary treatment of isolated areas that may be problematic due to localized flooding over an extended time.

Recommendation:

Staff has been very satisfied with Clarke's customer service to residents, their surveillance and treatment of open waters by their in-house helicopter service, and their willingness to reduce their price. Therefore, Staff recommends that the Board of Trustees approve the revised Agreement for 2020-2021. Due to Covid-19, the Public Works & Environmental Concerns Committee has not met, but the Committee Chair concurs with Staff's recommendation.



**Clarke Environmental Mosquito Management, Inc.,
Professional Services Outline for 2020-2021
Village of Lombard
Environmental Mosquito Management (EMM) Program**

- Part I. General Service**
 - A. Aerial Survey and Geographic Information System (GIS) Mapping
 - B. Computer System and Record Keeping Database
 - C. Public Relations and Educational Brochures
 - D. Mosquito Hotline Citizen Response – (800) 942-2555
 - E. Comprehensive Insurance Coverage naming the Village of Lombard additionally insured
 - F. Program Consulting and Quality Control Staff
 - G. Monthly Operational Reports, Periodic Advisories, and Annual Report
 - H. Regulatory compliance on local, state, and federal levels
- Part II. Surveillance and Monitoring**
 - A. Floodwater Mosquito Migration Model:
The use of weather data and computer model to predict the arrival of *Aedes vexans* brood (hatch) and peak annoyance periods.
 - B. Arbovirus Surveillance:
1. Clarke New Jersey Light Trap Network to monitor and evaluate adult mosquito activity.
Weather Monitoring – Operational Forecasts
- Part III. Larval Control**
 - A. Targeted Mosquito Management System (TMMS™) computer database and site management.
 - B. Larval Site Monitoring: 12 inspections
 - 1. Three (3) complete inspections of up to 192 sites as outlined by most recent Clarke GIS Survey.
 - 2. Five (5) targeted inspections of up to 74 breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 3. Three (3) targeted inspections of up to 63 known *Culex spp.* breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 4. Inspections of sites called in by residents on the Mosquito Hotline.
 - 5. Prescription Larval Control will be performed with Natular® mosquito larvicide as described in the following sections.
 - 1. Larval Control: The program provides for treatment as needed of single brood or 30 day residual product with backpack or hand equipment.
 - 2. Helicopter Prehatch: Three (3) treatments using Natular™ of up to 60 acres for floodwater mosquito control.
 - 3. Catch Basins: One (1) treatment of up to 4,320 street side catch basins, inlets and manholes using a Natular™XRT for control of up to 180 days. The primary method of treatment delivery will by bicycle.



- Part IV. Adult Control**
- A. Adulting in Residential Areas:**
 - 1. As authorized by the Village of Lombard, community-wide truck ULV treatments of up to 154 miles of streets using Merus™ a botanical insecticide (pyrethrin). Treatments may be on a section or city basis at a cost of \$80.00 per mile (minimum of 10 miles).
- B. Adulting Operational Procedures**
 - 1. Notification of community contact.
 - 2. Weather limit monitoring and compliance.
 - 3. Notification of residents on Clarke Call Notification List.
 - 4. ULV particle size evaluation.
 - 5. Insecticide dosage and quality control analysis.

2020-2021 EarthRight™ Payment Total Price for Parts I, II, III, IV \$68,280.00**

****NPDES Permit:** A National Pollutant Discharge Elimination System (NPDES) permit is necessary for the execution of the work for mosquito control effective October 31, 2011. Any additional costs associated with activities and/or services that may be required by Clarke in order to comply with an NPDES permit are not included in this proposal.



EarthRight™

**Clarke Environmental Mosquito Management, Inc.,
Client Agreement Authorization for 2020-2021
Village of Lombard
EarthRight™ Program**

- I. **Program Payment Plan:** For Parts I, II, III, and IV as specified in the 2020-2021 Professional Services Price Outline, the total for the 2020-2021 program is \$68,280.00 per year. The payments will be due according to the payment schedule below. Any additional treatments beyond the core program will be invoiced when the treatment is completed. Village of Lombard has the option to extend this program for 2022 at 2020-2021 rates.
- II.

PROGRAM PAYMENT PLAN

Month	2020	2021
June 1	\$17,070.00	\$17,070.00
July 1	\$17,070.00	\$17,070.00
August 1	\$17,070.00	\$17,070.00
September 1	\$17,070.00	\$17,070.00
TOTAL	\$68,280.00	\$68,280.00

For Village of Lombard:

Sign Name: _____

Title: _____

Date: _____

For Clarke Environmental Mosquito Management, Inc.:

Name: _____

Title: _____

Key Accounts Manager

Date: 5/1/2020

Emily Glasberg



**Clarke Environmental Mosquito Management, Inc.,
Professional Services Outline for 2020-2021
Village of Lombard
Environmental Mosquito Management (EMM) Program**

- Part I. General Service**
 - A. Aerial Survey and Geographic Information System (GIS) Mapping
 - B. Computer System and Record Keeping Database
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 - E. Comprehensive Insurance Coverage naming the Village of Lombard additionally insured
 - F. Program Consulting and Quality Control Staff
 - G. Monthly Operational Reports, Periodic Advisories, and Annual Report
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- Part II. Surveillance and Monitoring**
 - A. Floodwater Mosquito Migration Model:
The use of weather data and computer model to predict the arrival of *Aedes vexans* brood (hatch) and peak annoyance periods.
 - B. Arbovirus Surveillance:
1. Clarke New Jersey Light Trap Network to monitor and evaluate adult mosquito activity.
 - C. Weather Monitoring – Operational Forecasts
- Part III. Larval Control**
 - A. Targeted Mosquito Management System (TMS™) computer database and site management.
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 5. Insecticide dosage and quality control analysis.

2020-2021 EarthRight™ Payment Total Price for Parts I, II, III, IV \$68,280.00**

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September 1	\$17,070.00	\$17,070.00
TOTAL	\$68,280.00	\$68,280.00

For Village of Lombard:

Sign Name: _____ Title: _____ Date: _____

For Clarke Environmental Mosquito Management, Inc.:

Name: Emily Glasberg Title: Key Accounts Manager Date: 5/1/2020