

REPORT TO: Mayor and Members of Council

PREPARED BY: Donna VanHooydonk, Executive Assistant

DEPARTMENT: Infrastructure & Operations

DIVISION: Protection to Persons/Property

MEETING DATE: Wednesday, February-20-19

SUBJECT: 2019 Larvicide Application Program

RECOMMENDATION

Be it resolved that Council receive this report entitled 2019 Larvicide Application Program;

And that Council directs staff to retain Pestalto Environmental Health Services Inc. services immediately to begin North Middlesex's larvicide program; starting with the facilitation of a ground treatments program (as referenced in this report as "Mod-High Level" mosquito larva). The scope of the program is within the approved 2019 Operating Budget.

EXECUTIVE SUMMARY

Pestalto Environmental Health Services Inc. along with Zimmer Air Services has been contracted for the implementation of the 2019 Larvicide Application Program. The focus of this program being to reduce the numbers of biting mosquito adults with measures preventing larviciding towards health risk such as West Nile Virus.

LINK TO STRATEGIC PRIORITIES

By Providing High Quality Public Services

BACKGROUND

North Middlesex staff has contacted Pestalto Environmental Health Services Inc. to provide a quote for our 2019 larvicide application program. Once again, the treatment areas included in the program are Parkhill, Ailsa Craig and Nairn. In 2018, the budgeted amount for this service was \$45,000.00. The actual amount paid, to Pestalto, was

\$24,788.74.00. Each year it is budgeted to plan to conduct two aerial treatments timed for early spring and early summer to provide a longer control period. In addition Pestalto Environmental Health Services Inc. also conducts ground treatment(s) if required.

DISCUSSION

Pestalto would supply the larvicide and support services that include: the MOECC permit application, pre and post-monitoring surveillance, larval identification and a final report to MOECC on behalf of the Municipality of North Middlesex. Zimmer Air Services will conduct the aerial larvicide application on behalf of Pestalto. North Middlesex would be responsible for public notification and tracking objectors for affected private property owners. Ideally, the aerial application will be timed to control the 1st spring and early summer mosquito hatching. Application of larvicide by helicopter provides more effective control over large areas. It is imperative that the landowner permission flyer be mailed out immediately upon the approval of this program in order to provide landowner permission (allowing 30 days’ notice as per the MOECC guidelines);

FINANCIAL

Preapproval

2019 Larvicide Program Options

| Program Option | Description (Assumptions) | Larvicide | Rate Aplc. | # Hectares | Program Cost (+HST) | Cost/ha |
|----------------|--|----------------|-----------------|---|---------------------|-----------|
| 1 | 1 st aerial application including Ailsa Craig, Parkhill and Nairn. (~ 225ha) | VectoBac 200G | 5.0 kg/ha | 225 | \$24,026 | 106.78/ha |
| 2 | 2 nd aerial application if required (normally Parkhill below dam (~100 ha) | VectoBac 200G | 5.0 kg/ha | 100 | \$13,321 | 133.12/ha |
| 3 | Ground application if required including labour, product update report (~10ha) | VectoBax 1200L | 1.0 L/ha | 10 | \$3,985 | \$398.50 |
| 4 | Additional larval monitoring for Ailsa Craig, Parkhill and Nairn. Including travel time, surveillance, update report | VectoBac 1200L | Monitoring Only | Estm. 5-6 hrs. (Treatments not included) | \$375-450/visit | \$75/hr |

Overall cost will depend on whether one (1) or two (2) aerial applications are conducted. Ideally, the aerial application will be timed to control the 1st spring and early summer mosquito hatchings. A second aerial application may be required if flooding conditions persist into the May-June of the same year. Pestalto recommends bi-weekly monitoring after the 1st post aerial application being completed. They further recommend that ground treatments be conducted immediately in order to implement a program to divert what is known as “Mod-High Level” mosquito larvae.

Depending on the number of aerial applications, as well as the range of area that may be treated costs are determine by a historical estimate to cover, Ailsa Craig, Nairn and Parkhill (roughly 225 ha(+/-)). Pestalto Environmental Health Services Inc. quote has been based on treating 75 ha over Ailsa Craig and Nairn and 150 ha over Parkhill. The program could range between \$28,386.00 + HST through to \$47,707.00 + HST and therefore are anticipating no more than a 2-3% increase.

ATTACHMENT

Mosquito Abatement Program for Nuisance Control & Vector Reduction of West Nile Virus
Final Report – February 2019.

Prepared By: Donna VanHooydonk, Executive Assistant

Reviewed By: Nandini Syed, CAO/Director of Finance (Treasurer)

Approved By: Nandini Syed, CAO/Director of Finance (Treasurer)