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THE REGIONAL DISTRICT OF EAST KOOTENAY  
MOSQUITO CONTROL PROGRAM  
WASATA TA CREEK/SKOOKUMCHUCK MOSQUITO CONTROL EXTENDED SERVICE  
AREA

SEASON END REPORT  
DECEMBER 2012

PROGRAM STAFF:

|                 |   |
|-----------------|---|
| Mark Vaandering | Project Manager                                 |
| Kendra Lewis    | Program Coordinator/Mosquito Control Technician |

CONTAINING:

Summary of 2012 Season Activities

**Morrow BioScience Ltd.**

SUMMARY OF ACTIVITIES

Like 2011, the 2012 season was an extremely busy one throughout the province for mosquito control and the Wasa, Tata Creek and Skookumchuck area was no exception. In Spring 2012, the snow pillow in the mountains of the Kootenay River watershed was high (127% of normal as of April 1, 129% as of May 1 and 124% as of June 1).

Ground-based treatments of snowmelt pools began in mid-May and continued into June. Heavy precipitation in early June, coupled with above-average remaining snowpack at that time combined to raise the Kootenay River to record flood levels and triggered the need for expanded aerial treatments. By June 12<sup>th</sup> the treatments covered by the 'base contract' had been exceeded and supplementary ground and aerial treatments continued. Due to budget constraints, formal treatments were curtailed, at the request of the RDEK, as of June 20<sup>th</sup>. Limited ground-based treatments were continued, at the expense of Morrow Bioscience Ltd., in order to try to maintain mosquito nuisance at tolerable levels.

This season a total of 2,066 hectares were treated, well above the 700 hectares included in the base contract.

Given the extent of the flooding this season and the early curtailment of 'formal treatments', adult mosquito populations were maintained at tolerable levels for most of the season. Without the extraordinary control effort, adult mosquito annoyance levels would have been extremely high making most outdoor activities impossible.

Larvicide Applications Summary

| DATE             | LOCATION                  | PRODUCT | QUANTITY APPLIED (kg) | AREA (ha) | APPLICATION MODE |
|------------------|---------------------------|---------|-----------------------|-----------|------------------|
| May 16           | Wasa Skookumchuck         |         | 0                     | 0.000     |                  |
| May 18           | Wasa Skookumchuck         |         | 0                     | 0.000     |                  |
| May 22           | Skookumchuck              | Aquabac | 36.4                  | 6.067     | Blower/Hand      |
| May 22           | Thunderhoof               | Aquabac | 54.6                  | 9.100     | Blower/Hand      |
| May 22           | Thunderhoof Highway       | Aquabac | 36.4                  | 6.067     | Blower/Hand      |
| May 29           | Prairie Road              | Aquabac | 18.2                  | 3.033     | Blower/Hand      |
| May 29           | Station House             | Aquabac | 18.2                  | 3.033     | Blower/Hand      |
| May 30           | Prairie Rd / Skookumchuck |         | 0                     | 0.000     |                  |
| May 31           | Prairie Road              | Aquabac | 109.2                 | 18.200    | Blower/Hand      |
| May 31           | Bearclaw                  | Aquabac | 163.8                 | 27.300    | Blower/Hand      |
| <b>May Total</b> |                           |         | 436.8                 | 72.800    |                  |
| Jun 11           | Thunderhoof               | Aquabac | 45.5                  | 7.583     | Blower/Hand      |
| Jun 11           | Prairie Rd                | Aquabac | 63.7                  | 10.617    | Blower/Hand      |
| Jun 11           | Highway South             | Aquabac | 18.2                  | 3.033     | Blower/Hand      |

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|     |    |                                    |         |       |        |             |
|-----|----|------------------------------------|---------|-------|--------|-------------|
| Jun | 11 | Sweet Tooth                        | Aquabac | 91    | 15.167 | Blower/Hand |
| Jun | 12 | Prairie Rd                         | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Channel in<br>Prairie Rd           | Aquabac | 200.2 | 33.367 | Aerial      |
| Jun | 12 | Lower slough at<br>dump            | Aquabac | 200.2 | 33.367 | Aerial      |
| Jun | 12 | Aushrom slough                     | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Jansen channel                     | Aquabac | 163.8 | 27.300 | Aerial      |
| Jun | 12 | TaTa creek<br>Elgerts              | Aquabac | 200.2 | 33.367 | Aerial      |
| Jun | 12 | TaTa creek<br>Elgerts              | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | TaTa lower field<br>trees          | Aquabac | 200.2 | 33.367 | Aerial      |
| Jun | 12 | Elgerts Channels                   | Aquabac | 163.8 | 27.300 | Aerial      |
| Jun | 12 | Buddenagen                         | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Buddenagen                         | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Jameson                            | Aquabac | 200.2 | 33.367 | Aerial      |
| Jun | 12 | Haber                              | Aquabac | 200.2 | 33.367 | Aerial      |
| Jun | 12 | Skookumchuk                        | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Slough at<br>Skookumchuk<br>bridge | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Skookumchuk<br>island              | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Bearclaw                           | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 12 | Bearclaw                           | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 13 | Prairie Rd                         | Aquabac | 145.6 | 24.267 | Aerial      |
| Jun | 13 | Bummers hwy<br>both sides          | Aquabac | 163.8 | 27.300 | Aerial      |
| Jun | 13 | Edge of<br>Bummers                 | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | Hwy Bummers to<br>Sation House     | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | South end<br>Thunderhoof           | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | South end<br>Thunderhoof           | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | Thunderhoof<br>river               | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 13 | Thunderhoof<br>river               | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | Thunderhoof<br>North               | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | Thunderhoof<br>North               | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | Jameson                            | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | Jameson                            | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 13 | Haber                              | Aquabac | 145.6 | 24.267 | Aerial      |

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|     |    |                                  |         |       |        |             |
|-----|----|----------------------------------|---------|-------|--------|-------------|
| Jun | 13 | Hansen channel                   | Aquabac | 145.6 | 24.267 | Aerial      |
| Jun | 13 | Main beach<br>Wasa               | Aquabac | 145.6 | 24.267 | Aerial      |
| Jun | 13 | Rokosh                           | Aquabac | 18.2  | 3.033  | Aerial      |
| Jun | 13 | Whites                           | Aquabac | 91    | 15.167 | Aerial      |
| Jun | 16 | Gradon Ford<br>back slough       | Aquabac | 145.6 | 24.267 | Aerial      |
| Jun | 16 | Gradon Ford<br>treed channel     | Aquabac | 163.8 | 27.300 | Aerial      |
| Jun | 16 | Gradon Ford<br>river channel     | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 16 | Graden Ford<br>pump house        | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Gradon Ford hwy<br>big pond      | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Gradon Ford hwy<br>fenced bridge | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Gradon Ford<br>river channel     | Aquabac | 200.2 | 33.367 | Aerial      |
| Jun | 16 | Sweet Tooth                      | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 16 | Colins                           | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Colins big pond                  | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Colins bridge                    | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Colins river<br>channel          | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Coline 2nd<br>channel            | Aquabac | 182   | 30.333 | Aerial      |
| Jun | 16 | Sweet tooth 2nd<br>channel       | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | 2 trees station<br>house         | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | 2 trees 2nd field                | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Bearclaw                         | Aquabac | 254.8 | 42.467 | Aerial      |
| Jun | 16 | Moan Road                        | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Muskrat Ranch                    | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Green<br>subdivision             | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Thunderhoof<br>River             | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Thunderhoof<br>north channel     | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | 2 trees nig<br>slough by river   | Aquabac | 218.4 | 36.400 | Aerial      |
| Jun | 16 | Prairie Rd                       | Aquabac | 54.6  | 9.100  | Aerial      |
| Jun | 16 | Prairie Rd                       | Aquabac | 72.8  | 12.133 | Aerial      |
| Jun | 18 | Doug Ford                        | Aquabac | 18.2  | 3.033  | Blower/Hand |
| Jun | 18 | Park                             | Aquabac | 18.2  | 3.033  | Blower/Hand |
| Jun | 19 | Hanson channel<br>old hwy        | Aquabac | 18.2  | 3.033  | Blower/Hand |

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|--------------------|----|-----------------------------|---------|---------|----------|-------------|
| Jun                | 19 | Whites                      | Aquabac | 18.2    | 3.033    | Blower/Hand |
| Jun                | 19 | Leask                       | Aquabac | 18.2    | 3.033    | Blower/Hand |
| Jun                | 20 | Thunderhoof<br>North        | Aquabac | 109.2   | 18.200   | Blower/Hand |
| Jun                | 20 | Green house                 | Aquabac | 18.2    | 3.033    | Blower/Hand |
| Jun                | 20 | Sawdust pile                | Aquabac | 18.2    | 3.033    | Blower/Hand |
| Jun                | 20 | park                        | Aquabac | 18.2    | 3.033    | Blower/Hand |
| Jun                | 21 | 2 trees by station<br>house | Aquabac | 127.4   | 21.233   | Blower/Hand |
| Jun                | 21 | Doug Ford                   | Aquabac | 18.2    | 3.033    | Blower/Hand |
| <b>Jun Total</b>   |    |                             |         | 11902.8 | 1983.800 |             |
| Jul                | 1  | Wasa Lake                   | Aquabac | 18.2    | 3.033    | Blower/Hand |
| Jul                | 2  | Wasa Lake                   | Aquabac | 18.2    | 3.033    | Blower/Hand |
| Jul                | 7  | Wasa Lake                   | Aquabac | 18.2    | 3.033    | Blower/Hand |
| <b>Jul Total</b>   |    |                             |         | 54.6    | 9.100    |             |
| <b>Grand Total</b> |    |                             |         | 12394.2 | 2065.700 |             |

**SEASON TOTALS**

|                    | QUANTITY APPLIED (kg) | AREA (ha) | APPLICATION MODE |
|--------------------|-----------------------|-----------|------------------|
|                    |                       | 11,284.0  | 1,883.7          |
|                    | 1,110.2               | 182.0     | Blower/Hand      |
| <b>Grand Total</b> | 12,394.2              | 2,065.7   |                  |

Monitoring Summary

| DATE     | AREA        | MONITORED | LARVA | EFFICACY<br>CHECK | KOOTENAY<br>RIVER ** | COMMENTS                  |
|----------|-------------|-----------|-------|-------------------|----------------------|---------------------------|
| 05/05/12 |             |           |       |                   | 2516 feet            |                           |
| 05/06/12 |             |           |       |                   | 2516 feet            |                           |
| 05/07/12 |             |           |       |                   | 2516 feet            |                           |
| 05/08/12 |             |           |       |                   | 2516 feet            |                           |
| 05/09/12 |             |           |       |                   | 2517 feet            |                           |
| 05/10/12 |             |           |       |                   | 2518 feet            |                           |
| 05/11/12 |             |           |       |                   | 2518 feet            |                           |
| 05/12/12 |             |           |       |                   | 2518 feet            |                           |
| 05/13/12 |             |           |       |                   | 2517 feet            |                           |
| 05/14/12 |             |           |       |                   | 2518 feet            |                           |
| 05/15/12 |             |           |       |                   | 2520 feet            |                           |
| 05/16/12 | All Areas   |           |       |                   | 2522 feet            | pre-season<br>site review |
| 05/17/12 |             |           |       |                   | 2524 feet            |                           |
| 05/18/12 | Thunderhoof |           |       |                   | 2523 feet            | beaver dam<br>removal     |
| 05/19/12 |             |           |       |                   | 2521 feet            |                           |

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|----------|------------------|-----------|--|---------|-----------|-----------------------|
| 05/20/12 |                  |           |  |         | 2521 feet |                       |
| 05/21/12 |                  |           |  |         | 2521 feet |                       |
| 05/22/12 | Skookumchuk      | MONITORED | + 50 per dip   |         |           | blower/hand treatment |
| 05/22/12 | Thunderhoof      | MONITORED | + 50 per dip   |         |           | blower/hand treatment |
| 05/22/12 | Highway thunder  | MONITORED | + 50 per dip   |         |           | blower/hand treatment |
| 05/22/12 |                  |           |  |         | 2520 feet |                       |
| 05/23/12 |                  |           |  |         | 2521 feet |                       |
| 05/24/12 | Skookumchuk      | MONITORED |  | 100.00% |           |                       |
| 05/24/12 | Thunderhoof      | MONITORED |  | 100.00% |           |                       |
| 05/24/12 | Highway thunder  | MONITORED |  | 100.00% | 2522 feet |                       |
| 05/25/12 | Station House    | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         |           |                       |
| 05/25/12 | Prairie Road     | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         | 2521 feet |                       |
| 05/26/12 | Bearclaw         | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         | 2520 feet |                       |
| 05/27/12 |                  |           |  |         | 2520 feet |                       |
| 05/28/12 |                  |           |  |         | 2519 feet |                       |
| 05/29/12 | Prairie Road HWY | MONITORED | + 50 per dip   |         |           | blower/hand treatment |
| 05/29/12 | Station House    | MONITORED | + 50 per dip   |         |           | blower/hand treatment |
| 05/29/12 |                  |           |  |         | 2519 feet |                       |
| 05/30/12 | Prairie Road     | MONITORED | +200 per dip   |         | 2519 feet |                       |
| 05/31/12 | Prairie Road     | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         |           | blower/hand treatment |
| 05/31/12 | Bearclaw         | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> instar |         | 2519 feet | blower/hand treatment |
| 06/01/12 | Bearclaw         | MONITORED |  | 100.00% |           |                       |
| 06/01/12 |                  |           |  |         | 2520 feet |                       |
| 06/02/12 | Prairie Road     | MONITORED |  | 100.00% | 2523 feet |                       |
| 06/03/12 |                  |           |  |         | 2524 feet |                       |
| 06/04/12 | Thunderhoof      | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         |           |                       |
| 06/04/12 | Prairie Road     | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         |           |                       |
| 06/04/12 | Sweet tooth      | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         | 2523 feet |                       |
| 06/05/12 |                  |           |  |         | 2524 feet |                       |
| 06/06/12 | Thunderhoof      | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         | 2527 feet |                       |
| 06/07/12 | Prairie Road     | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         | 2529 feet |                       |
| 06/08/12 | Hwy southend     | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup> instar                 |         | 2528 feet |                       |

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|          |  |           |   |        |           |                          |
|----------|--|-----------|---|--------|-----------|--------------------------|
| 06/09/12 |  |           |   |        | 2526feet  |                          |
| 06/10/12 | all areas for aerial                   | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        | 2525 feet |                          |
| 06/11/12 | Thunderhoof                            | MONITORED | +100 per<br>dip                           |        |           | blower/hand<br>treatment |
| 06/11/12 | Prairie Road                           | MONITORED | +100 per<br>dip                           |        |           | blower/hand<br>treatment |
| 06/11/12 | Sweet tooth                            | MONITORED | +100 per<br>dip                           |        |           | blower/hand<br>treatment |
| 06/11/12 | HWY Thunderhoof                        | MONITORED | +100 per<br>dip                           |        | 2524 feet | blower/hand<br>treatment |
| 06/12/12 | See Applications<br>Table              |           |   |        | 2525 feet | aerial<br>treatment      |
| 06/13/12 | See Applications<br>Table              |           |   |        | 2526feet  | aerial<br>treatment      |
| 06/14/12 | Aerial Sites                           | MONITORED |   | 90.00% | 2526feet  |                          |
| 06/15/12 | Gradon Ford                            | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Wasa Lake                              | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Sweet tooth                            | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Colins                                 | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | 2 <sup>nd</sup> channel Colins         | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | 2 <sup>nd</sup> channel Sweet<br>tooth | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Two Trees 2 <sup>nd</sup> field        | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Bearclaw                               | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Muskrat Ranch                          | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Green Sub                              | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Thunderhoof by the<br>River            | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Thunderhoof north<br>side              | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Two Trees slough by<br>River           | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Prairie Road Trees<br>by Dump          | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Praire Road                            | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        |           |                          |
| 06/15/12 | Moan Road                              | MONITORED | 1 <sup>st</sup> 2 <sup>nd</sup><br>instar |        | 2526feet  |                          |
| 06/16/12 | See Applications<br>Table              |           |   |        | 2525 feet | aerial<br>treatment      |
| 06/17/12 | Aerial Sites                           | MONITORED |   | 95.00% | 2525 feet |                          |

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|----------|---------------------------|-----------|--------------|--|-----------|-----------------------|
| 06/18/12 | Doug Ford                 | MONITORED | +200 per dip |  |           | blower/hand treatment |
| 06/18/12 | Park Wasa Lake            | MONITORED | +200 per dip |  | 2526feet  | blower/hand treatment |
| 06/19/12 | Hanson Channel Old HWY    | MONITORED | +300 per dip |  |           | blower/hand treatment |
| 06/19/12 | Whites                    | MONITORED | +300 per dip |  |           | blower/hand treatment |
| 06/19/12 | Leask                     | MONITORED | +200 per dip |  | 2526feet  | blower/hand treatment |
| 06/20/12 | Green house               | MONITORED | +100 per dip |  |           | blower/hand treatment |
| 06/20/12 | Wasa Lake Park            | MONITORED | +100 per dip |  |           | blower/hand treatment |
| 06/20/12 | Sawdust Pile              | MONITORED | +100 per dip |  |           | blower/hand treatment |
| 06/20/12 | Thunderhoof               | MONITORED | +500 per dip |  | 2526feet  | blower/hand treatment |
| 06/21/12 | Two Treesby Station House | MONITORED | +500 per dip |  | 2525 feet | blower/hand treatment |
| 06/21/12 | Doug Ford                 | MONITORED | +200 per dip |  |           | blower/hand treatment |
| 06/22/12 |                           |           |              |  | 2525 feet |                       |
| 06/23/12 |                           |           |              |  | 2526feet  |                       |
| 06/24/12 |                           |           |              |  | 2528 feet |                       |
| 06/25/12 |                           |           |              |  |           |                       |
| 06/26/12 |                           |           |              |  |           |                       |
| 06/27/12 |                           |           |              |  |           |                       |
| 06/28/12 |                           |           |              |  |           |                       |
| 06/29/12 |                           |           |              |  |           |                       |
| 06/30/12 |                           |           |              |  |           |                       |
| 07/01/12 | Wasa Lake donated         | MONITORED |              |  |           | blower/hand treatment |
| 07/02/12 | Wasa Lake donated         | MONITORED |              |  |           | blower/hand treatment |
| 07/07/12 | Wasa Lake donated         | MONITORED |              |  |           | blower/hand treatment |

\*\* - Gauge stick located at Kootenay River (Hansens Channel / Old highway)

Summary of Helicopter Applications

Helicopter Service: Range Helicopters Inc.

Helicopter Used: Bell 206B

June 12, 2012: 5.3 hours

June 13, 2012: 5.0 hours

June 16, 2012: 7.3 hours



## DISCUSSION

In an effort to assist all areas in broadcasting a uniform message regarding mosquito control and WNV, Morrow BioScience Ltd. operates a comprehensive website. This site can be found at [www.morrowbioscience.com](http://www.morrowbioscience.com). MBL would encourage people to utilize this resource to help answer any questions they may have. MBL would also encourage the RDEK to provide a link to this website from their municipal site for easy access to local residents. It is planned to revamp/update the website prior to the 2013 season in order to further improve its content and presentation.

A summary of costs for this season is as follows:

|                                  |              |
|----------------------------------|--------------|
| Base Contract (less pesticides): | \$47,500.00  |
| Larvicide:                       | 67,867.80    |
| Treatment over 700ha:            | 60,046.05    |
| HST:                             | 21,049.66    |
| PST:                             | 0.00         |
| GST:                             | <u>0.00</u>  |
|                                  | \$196,463.51 |

A total of 12,394.2kg of larvicide or approximately 681 bags (18.2kg/bag) were applied to 2,065.7ha during the season. The season was started with no larvicide inventory carried over from last season and there were purchases totaling 678 bags (plus three bags donated by MBL), and therefore there are 0 bags in stock for next year.

### Plans for Mosquito Control Program Improvements – Future Seasons

- Strive to continue to provide timely field information to RDEK staff to allow the program budget status to be closely monitored and informed decisions regarding approval of extra treatments (if necessary).
- Continue to liaise with the farmers who have control over opening Lewis Creek and coordinate the flow with the Kootenay River level.
- Continue explore and implement solutions to the beaver issues associated with drainage culverts in the Wasa area.
- Muskrat Ranch should have a control burn to eliminate the numerous reeds and tall grass that prevent the larvicide from being most effective.
- It is proposed that Hansen's Channel have some trails cut in to enable easier ground access.
- Clean-up trails within the Prairie Road vicinity as overgrowth is making this area difficult to access and treat.
- The highway culverts require regular maintenance.
- Drainage on the Collins property would benefit from installation of a culvert.

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If you have any questions regarding this summary report, please do not hesitate to give me a call at 604-986-1168.

A handwritten signature in black ink, appearing to read 'Mark Vaandering', with a stylized flourish at the end.

Mark Vaandering, P.Eng.  
President  
**MORROW BIOSCIENCE LTD.**