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*Parks & Open Space Division • Division des parcs et des espaces ouverts  
Insect Control Branch • Direction de la lutte contre les insectes*

February 8, 2011

Director, Environmental Assessment and Licensing Branch  
Manitoba Conservation  
123 Main St. Suite 160,  
Winnipeg, MB R3C 1A5

**Attention: Tracey Braun**

Dear Tracey,

**RE: PESTICIDE USE PERMIT CHANGES**

On July 21, 2010, Winnipeg City Council approved a Mosquito Control Program report, containing seven recommended changes to the current nuisance larval and adult mosquito control requirements. Three of these recommendations propose revisions to the conditions imposed in the City's Pesticide Use Permit (PUP). Immediately following Council's decision, in a letter dated July 21, 2010, the Honourable Bill Blaikie wrote to Mayor Sam Katz, advising that the Province was open to revisions to the Permit, but that a formal application from the Insect Control Branch for the revisions was necessary before they could be considered.

Accordingly, on behalf of the Public Works Department, I hereby request that the Environmental Assessment and Licensing Branch of Manitoba Conservation review the following recommended change for the new 2011 PUP which has been adopted by Winnipeg's City Council; and hereby formally apply for the revision to the Permit as approved by Council.

The recommendation approved by Council is as follows:

1. *That the Province of Manitoba amend the minimum criterion for fogging from the current 3 consecutive days of greater than 25 adult female nuisance mosquitoes in the New Jersey Light Traps, to 2 consecutive days.*

City Council recognizes this criterion only has to occur once per season, however, it is important that the recommended change is made this year, in advance of the official 2011 PUP application process. Having the ability to make an early, definitive decision will enable the treatment for adult mosquitoes to occur earlier in the hatching cycle, preventing the adult mosquito population from building to higher levels.


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The data analysis, as provided in Appendix A, shows that for the past six years (2005-2010), 3 consecutive days of above 25 adult female mosquitoes with one quadrant in the range of 100 mosquitoes was preceded by 2 consecutive days of above 25 mosquitoes and one quadrant in the range of 100. In fact, since 1980, the 2 and 3 day criteria have coincided in 22 of the 30 years, including 15 of the last 17 years. We also looked at the statistical significance of determining if the data were random at a 50:50 or not and it was found as highly significant as not random at the 0.008 level of significance. Therefore, we recommend that two days of above 25 mosquitoes is sufficient to predict the need to commence an adult mosquito control program.

Thank you for your consideration of this request for a change to the City of Winnipeg's PUP. I await your decision in this regard, and am available to meet to discuss the matter further at your convenience.

Regards,



Taz Stuart, M.Sc., P.Biol.  
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TS/jb

c: M. Ruta, Acting/Chief Administrative Officer  
B.W. Sacher, P. Eng., Director of Public Works  
D. Domke, Manager of Parks and Open Space

Appendix A

Table 1. Recent fogging program data under current Pesticide Use Permit criteria

Year	Date fogging program announced	Date 3 day criteria met	3 day average	Maximum quadrant average
2010	June 17, 2010	June 17, 2010	166.4	453.5
2009	August 13, 2009	July 15, 2009	38.5	131.5
2008	June 25, 2008	June 25, 2008	158.7	442.8
2007	June 14, 2007	June 14, 2007	43.0	96.2
2006	June 21, 2006	June 16, 2006	95.9	189.7
2005	July 14, 2005	June 20, 2005*	46.6	N/A
2004	June 28, 2004	June 29, 2004	103.7	N/A

\* Traps were only collected 3 days/week. Actual date could have been June 17, 2005

\*\* Traps were only collected 3 days/week. Actual date could have been June 16, 2005.

Table 2. Historical mosquito collection data from 1980 - 2010

Year	Date 3 day criteria met	3 day average	Dates coincide
1980	never	N/A	N/A
1981	July 6, 1981	26.2	Yes
1982	June 7, 1982	27.5	Yes
1983	July 8, 1983	225.0	No
1984	June 23, 1984	37.9	Yes
1985	July 14, 1985	114.7	No
1986	May 28, 1986	62.2	Yes
1987	July 31, 1987	39.2	Yes
1988	never	N/A	No
1989	June 30, 1989	134.8	No
1990	June 7, 1990	51.2	Yes
1991	May 24, 1991	112.4	Yes
1992	July 24, 1992	42.8	No
1993	July 27, 1993	46.9	No
1994	June 6, 1994	131.3	Yes
1995	June 27, 1995	51.1	Yes
1996	June 10, 1996	57.9	Yes
1997	June 21, 1997	72.9	Yes*
1998	June 18, 1998	141.0	Yes*
1999	June 10, 1999	272.8	Yes
2000	July 4, 2000	200.1	Yes
2001	June 11, 2001	60.0	Yes*
2002	July 2, 2002	455.4	Yes*
2003	July 3, 2003	57.4	No
2004	June 29, 2004	103.7	No
2005	June 20, 2005	46.6	Yes*
2006	June 16, 2006	95.9	Yes
2007	June 14, 2007	43.0	Yes
2008	June 25, 2008	158.7	Yes
2009	July 15, 2009	38.5	Yes
2010	June 17, 2010	166.4	Yes

\* Dates would have coincided if collections had occurred daily which they did not.

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