## Council Direction:

This report is provided in keeping with the Board of Health policy on communication between the Medical Officer of Health and the Board of Health, as outlined in Report PH06038.

## Information:

This is a summary report covering the period from January 1, 2012 to June 30, 2012. Public Health Services (PHS) has been providing this reporting since 2006. In 2011, a review of the format was completed with BOH members to ensure that the information provided aligned with BOH members’ needs.

The Ontario Public Health Standards (OPHS) are the guidelines for the provision of mandatory health programs and services for Boards of Health in Ontario. Investigations completed by the program areas for Infectious Diseases and Environmental Health within the OPHS are the focus for this report. These program areas are as follows:
Infectious Diseases (which includes the Reportable Diseases under the Health Protection and Promotion Act):
- Infectious Diseases Prevention and Control
- Rabies Prevention and Control
- Sexual Health, Sexually Transmitted Infections, and Blood-borne Infections (including HIV)
- Tuberculosis Prevention and Control
- Vaccine Preventable Diseases

Environmental Health
- Food Safety
- Safe Water
- Health Hazard Prevention and Management

Reportable Disease cases are reported among individuals who reside within the City of Hamilton at the time of their diagnosis. The figures in Appendix A have been extracted from the Ontario Ministry of Health and Long-term Care integrated Public Health Information System (iPHIS) database and are subject to change due to case follow-up procedures and/or delayed diagnosis.

Significant Program Activities Completed During Q1 and Q2, 2012

Infectious Diseases:
- TB website was launched for the general public. Frequently asked questions were addressed with additional resources made available through links and our TB intake line.
- World Hepatitis Awareness Campaign included distribution of educational materials such as pamphlets, testing cards and posters to youth residences and physician offices. A presentation was also done at the Living Rock Dinner program.
- Sexually Transmitted Infection Awareness Campaign included Facebook advertising, promotional materials in washroom stalls in bars and restaurants, inside local mall and in local movie theatres. The campaign was effective as measured by website hits to the Sexual Health homepage (www.hamilton.ca/sti) which showed a 723% increase from January - March 31 2012, compared to the same period in 2011. Clinic visits for testing at PHS sexual health clinics increased by 44% in the first quarter of 2012 compared to 2011.

Environmental Health:
- North Hamilton Blood Lead Study concluded and findings were reported to the Board of Health in September 2011.
• Safe Water Team completed and distributed a Rural Well Water Quality Report to well users in March 2012 which brings together all well water quality lab test data for water wells in Hamilton. The report also recommended water quality lab tests that well users should consider, how to maintain a well, and how to sample and test well water for bacteria.

• Health Hazards program responded to an all-time high of 660 complaints and/or inquiries about bed bugs. This increase in reporting may likely be due in part to increased public awareness achieved through an advertising campaign occurring between September 2011 and April 2012.

Further details and trend information is included in the attached Appendix A.
Infectious Disease and Environmental Health Report: Q1 & Q2 2012

Number of reportable diseases investigations* conducted by report quarter, City of Hamilton, 2011 and 2012.

<table>
<thead>
<tr>
<th>Program</th>
<th>Type</th>
<th>Reported 2011*</th>
<th>Reported 2012*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
</tr>
<tr>
<td>Infectious Diseases (ID)</td>
<td>Cases</td>
<td>618</td>
<td>272</td>
</tr>
<tr>
<td>Tuberculosis (TB)</td>
<td>Active TB</td>
<td>14</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Latent TB</td>
<td>165</td>
<td>167</td>
</tr>
<tr>
<td>Sexually Transmitted Infections</td>
<td>Cases</td>
<td>487</td>
<td>471</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1284</td>
<td>919</td>
</tr>
</tbody>
</table>

Top 5 IDs occurring in order (including Vaccine Preventable Diseases and Human Rabies reporting)

- Influenza
- Hepatitis C
- Salmonellosis
- Campylobacter enteritis
- *Streptococcus pneumoniae*

Top Sexually Transmitted Infections

- Chlamydia

Interpretation: Influenza B was the dominant circulating influenza virus this season. In Ontario, about 35% of the influenza isolates characterized were of a strain and lineage different from the influenza B component of this season’s influenza vaccine. The population was therefore more susceptible to infection due to a vaccine mismatch.

Program Impacts:

Significant number of Influenza outbreaks in long-term care facilities requiring prophylaxis of all residents and health care workers as a result of a mismatch between circulating strain of influenza and vaccine strain. This resulted in ongoing education sessions with long-term care facility staff for the duration of influenza season.

Outbreak 2237-2012-027 - Salmonellosis Epicurve, City of Hamilton.

Interpretation: Outbreak of salmonellosis associated with local food premise.

Program Impacts:

Food handler education and ongoing enforcement and monitoring processes implemented at site of outbreak. Significant program resources dedicated to individual case management and outbreak management.

Most significant community outbreak:

- Salmonellosis outbreak associated with a local food premise.
Infectious Disease and Environmental Health Report: Q1 & Q2 2012

Environmental Health investigations responded to by Site Visit, Telephone Call or Email, 2011 and 2012

<table>
<thead>
<tr>
<th></th>
<th>Reported 2011</th>
<th>Reported 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q1</td>
<td>Q2</td>
</tr>
<tr>
<td>Food Safety</td>
<td>139</td>
<td>161</td>
</tr>
<tr>
<td>Water Quality</td>
<td>63</td>
<td>178</td>
</tr>
<tr>
<td>Health Hazard Abatement</td>
<td>336</td>
<td>351</td>
</tr>
<tr>
<td>Tobacco Control under Smoke Free Ontario Act</td>
<td>76</td>
<td>72</td>
</tr>
<tr>
<td>West Nile Virus</td>
<td>0</td>
<td>63</td>
</tr>
<tr>
<td>Infection Control/Injury Prevention</td>
<td>242</td>
<td>596*</td>
</tr>
<tr>
<td>Rabies Potential Exposure Investigations</td>
<td>226</td>
<td>346</td>
</tr>
<tr>
<td>Total</td>
<td>1082</td>
<td>1767</td>
</tr>
</tbody>
</table>

* Call increase Q2 2011 as a result of media release and customer follow-up on sterilizer failure in personal service setting.

In Q1 2012 there were 114 investigations compared to 63 investigations during the same period in 2011. This increase is due to an increase in calls received following a water quality survey conducted in Orkney in Q1 and the release of the rural water quality report in Q1 2012.

Top 4 Environmental Health issues 2012
1. Bed Bug Complaints (under Health Hazard Abatement)
2. Water Quality Inquiries
3. Smoking Related Complaints (under Tobacco Control)
4. Food Safety Complaints and/or inquiries