

**Part III Form 2  
Section 11. ANNUAL REPORT.**

|  |  |
|--|--|
| <b>Drinking-Water System Number:</b>   | 210001317                              |
| <b>Drinking-Water System Name:</b>     | Lorne Park Water Treatment Plant       |
| <b>Drinking-Water System Owner:</b>    | Regional Municipality of Peel          |
| <b>Drinking-Water System Category:</b> | Class IV / Large Municipal Residential |
| <b>Period being reported:</b>          | January 1, 2006 – December 31, 2006    |

|  |  |
|--|--|
| <p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [X] No [ ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;">                 Region of Peel<br/>                 10 Peel Centre Drive, 4<sup>th</sup> Floor.<br/>                 Brampton, Ontario<br/>                 L6T 4B9             </div> | <p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:<br/> <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p> |
|--|--|

**Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report**

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

| Drinking Water System Name | Drinking Water System Number |
|----------------------------|------------------------------|
| None                       |                              |

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [ ] No [X]

**Indicate how you notified system users that your annual report is available, and is free of charge.**

**Public access/notice via the web**

**Public access/notice via Government Office**

**Public access/notice via a newspaper**

**Public access/notice via Public Request**

**Public access/notice via a Public Library**

**Public access/notice via other method** \_\_\_\_\_

**Describe your Drinking-Water System**

Lorne Park Water Treatment Plant is one of two Class IV facilities that supply water to the South Peel Water System. The Lorne Park WTP primarily provides safe drinking water to a population of 504085 (representing 40% of Peel region 1,260,212 population) via three (3) distribution system reservoirs (that include Herridge, Streetsville and Meadowvale) and one elevated tank (at North Streetsville) on the western side of the water distribution system that serves people in Brampton and Mississauga. The Lorne Park WTP is operated as a conventional water treatment plant with a rated maximum production capacity of 347 ML/day. Raw water is drawn from Lake Ontario and pre-chlorinated with free chlorine at the intake for zebra mussel control. Chlorine may be applied in the lowlift for pre-chlorination as well as after filtration for post disinfection. Raw water is processed through traveling screens to remove larger debris and protect equipment. Lowlift pumps move source water along two separate trains to filters (1-8) and (9-12). Before filtration, acidified aluminum sulphate is added to the raw water which then goes through flash mixing, flocculation through upflow spiral wound floc tanks along filters (1-8) train and 3 stage mechanical flocculation along filters (9-12) train, sedimentation through lamellae plate settlers and filtration through dual media filters (granular activated carbon (GAC), sand and gravel for 1-8 filters and GAC and sand for 9-12 filters. Filtered water is chlorinated and fluoridated and then collects in a baffled storage reservoir (capacity 22.7 ML) to meet CT requirements. Potable water is pumped to distribution system using the highlift pumps. Filter backwash wastewater is collected in any of three holding tanks. The filter backwash wastewater is pumped into a mixing tank where coagulant is added. After which the wastewater is transferred to 4 clarifiers where settled sludge is removed through a decant drain from which the sludge enters the sanitary sewer system. The supernatant from the clarifiers is de-chlorinated using sodium bisulphite and discharged into a storm sewer where it then goes back to the lake.

**List all water treatment chemicals used over this reporting period**

Acidified aluminum sulphate (Alum), hydrofluosilicic acid, sodium hypochlorite and sodium bisulphite.

**Were any significant expenses incurred to?**

Install required equipment

Repair required equipment

Replace required equipment

**Please provide a brief description and a breakdown of monetary expenses incurred  
Lorne Park Waterworks (Including Distribution)**

| Significant Installations                              | Expenditure     |
|--|-----------------|
| Water Service Installation                             | \$57,348        |
| Lorne Park Water Treatment Plant Capital Improvements: |                 |
| MOE Mandated Plant Improvements                        | \$615,000.00    |
| Chemical Piping Upgrades (alum/hypochlorite/fluoride)  | \$14,700.00     |
| GAC Filter Media Replacement                           | \$2,100,000.00  |
| Meadowvale Reservoir Expansion                         | \$10,000,000.00 |
| Herridge Pumping Station Expansion                     | \$9,000,000.00  |

| Significant Repairs   | Expenditure |
|---|-------------|
| Watermain Break Repairs   | \$ 761,458  |
| Fire Hydrant Repairs  | \$ 223,330  |
| Water Service Repairs   | \$ 587,963  |
| Various Water Distribution System Pumps and Motor Refurbishment/Repairs | \$105,335   |
|   |             |

| Significant Replacements        | Expenditure |
|---------------------------------|-------------|
| Valve Installation/Replacements | \$ 16,051   |
| Fire Hydrant Replacements       | \$ 31,222   |

## Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

| Incident Date   | Parameter                                  | Result   | Unit of Measure | Corrective Action   | Corrective Action Date                         |
|---|--|--|-----------------|---|--|
| 07-Feb-06   | Filter Effluent Turbidity (Lorne Park WTP) | 2 samples taken 15 minutes apart > 1 (On-line) | NTU             | Backwashing was initiated for affected filters. Plant shutdown and filters backwashed with water from reservoir.  | 23-March-06<br><br>AWQI-63065                  |
| 12-June-06  | Filter Effluent Turbidity (Lorne Park WTP) | 2 samples taken 15 minutes apart > 1 (on-line) | NTU             | Filter flow was shut off and filter set to filter to waste. Program changes initiated to filter controls.   | 6-July-06<br><br>AWQI-65555                    |
| 15-June-06  | Fluoride Residual (Lorne Park WTP)         | 1.78   | mg/L            | Immediately re-sampled and monitored fluoride residuals. Fluoride flow stopped until plant stabilized. Backwashing of filters to reduce water in reservoir. Evaluation of fluoride application equipment. | 09-Jan. 07<br><br>AWQI-64995                   |
| 04-July-06  | Filter Effluent Turbidity (Lorne Park WTP) | 2 samples taken 15 minutes apart > 1 (on-line) | NTU             | Program changes initiated to filter controls.   | Nov. 27 <sup>th</sup> , 2006<br><br>AWQI-65675 |
| 03-Nov-06   | Total Coliforms (2661 Truscott Dr.)        | 16   | cfu/100 ml      | Flushed and re-sampled upstream, downstream and from the site of adverse.   | 07-Nov-06<br><br>AWQI- 68836                   |
| 30-Nov-06   | Total Coliforms (3565 Bala Dr., (Hydrant)) | 4  | cfu/100 ml      | Re-sampled upstream, downstream & at the reported location.   | Dec. 4, 2006<br><br>AWQI-69221                 |
| <p><b>Note:</b> <sup>1</sup> Notifications listed above include distribution locations primarily serviced by Lorne Park WTP on the western side of the distribution system.</p> <p><sup>2</sup> Incident date is represented by sampling date; corrective action date represents the date indicated as resolved date based on the notice of issue resolution.</p> |  |  |                 |   |  |

### Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

|                     | Number of Samples | Range of E.Coli Or Fecal Results (min #)-(max #) | Range of Total Coliform Results (min #)-(max #) | Number of HPC Samples | Range of HPC Results (min #)-(max #) |
|---------------------|-------------------|--|---|-----------------------|--------------------------------------|
| <b>Raw</b>          | 52                | 0-1  | 0 – 10  | 52                    | 0 – 130                              |
| <b>Treated</b>      | 156               | 0  | 0   | 52                    | 0                                    |
| <b>Distribution</b> | 1902*             | 0  | 0-20  | 1409*                 | 0 - 1000                             |

\*This value is 40% of the total distribution samples collected by the owner and operator (total samples collected 4754). It reflects the ratio of distribution pumping stations directly supplied by the Lorne Park WTP relative to those supplied by the Lakeview WTP.

**Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.**

|  | Number of Grab Samples | Range of Results (min #)-(max #) |
|--|------------------------|----------------------------------|
| <b>Turbidity</b>                                   | 8760                   | 0 - 1.99 NTU                     |
| <b>Chlorine</b>                                    | 8760                   | 0.56 – 1.7 mg/L                  |
| <b>Fluoride</b> (If the DWS provides fluoridation) | 8760                   | 0.24 –1.78 mg/L                  |

*NOTE: For continuous monitors use 8760 as the number of samples.*

*NOTE: Record the unit of measure if it is **not** milligrams per litre.*

**Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.**

| Date of legal instrument issued              | Parameter   | Date Sampled | Result | Unit of Measure |
|--|-------------|--------------|--------|-----------------|
| <b>Point of Entrance to the distribution</b> |             |              |        |                 |
| 31-Oct-05                                    | THMs        | 05-Jan-06    | 8.0    | ug/L            |
| 31-Oct-05                                    | THMs        | 02-Feb-06    | 20.7   | ug/L            |
| 31-Oct-05                                    | THMs        | 02-Mar-06    | 10.1   | ug/L            |
| 31-Oct-05                                    | THMs        | 06-April-06  | 26.2   | ug/L            |
| 31-Oct-05                                    | THMs        | 04-May-06    | 15.0   | ug/L            |
| 31-Oct-05                                    | THMs        | 01-June-06   | 4.4    | ug/L            |
| 31-Oct-05                                    | THMs        | 06-July-06   | 9.14   | ug/L            |
| 31-Oct-05                                    | THMs        | 03-Aug-06    | 6.12   | ug/L            |
| 31-Oct-05                                    | THMs        | 07-Sept-06   | 13.2   | ug/L            |
| 31-Oct-05                                    | THMs        | 05-Oct-06    | 5.8    | ug/L            |
| 31-Oct-05                                    | THMs        | 02-Nov-06    | 4.69   | ug/L            |
| 31-Oct-05                                    | THMs        | 07-Dec-06    | 6.95   | ug/L            |
| 31-Oct-05                                    | Sodium      | 05-Jan-06    | 25.4   | mg/L            |
| 31-Oct-05                                    | Sodium      | 06-April-06  | 18.8   | mg/L            |
| 31-Oct-05                                    | Sodium      | 06-July-06   | 16.0   | mg/L            |
| 31-Oct-05                                    | Sodium      | 05-Oct-06    | 17.8   | mg/L            |
| 31-Oct-05                                    | Chloramines | 02-Feb-06    | 0.12   | mg/L            |
| 31-Oct-05                                    | Chloramines | 05-April-06  | 0.16   | mg/L            |
| 31-Oct-05                                    | Chloramines | 06-July-06   | 0.12   | mg/L            |
| 31-Oct-05                                    | Chloramines | 05-Oct-06    | 0.15   | mg/L            |
| <b>Filter Influent</b>                       |             |              |        |                 |
| 31-Oct-05                                    | pH          | 19-Jan-06    | 7.01   | Standard Units  |
| 31-Oct-05                                    | pH          | 06-April-06  | 7.16   | Standard Units  |
| 31-Oct-05                                    | pH          | 04-May-06    | 6.99   | Standard Units  |
| 31-Oct-05                                    | pH          | 06-July-06   | 7.21   | Standard Units  |
| 31-Oct-05                                    | pH          | 06-Oct-06    | 6.98   | Standard Units  |
| <b>Filter Effluent</b>                       |             |              |        |                 |
| 31-Oct-05                                    | pH          | 19-Jan-2006  | 7.18   | Standard Units  |
| 31-Oct-05                                    | pH          | 06-April-06  | 7.19   | Standard Units  |
| 31-Oct-05                                    | pH          | 04-May-06    | 7.20   | Standard Units  |
| 31-Oct-05                                    | pH          | 06-July-06   | 7.16   | Standard Units  |
| 31-Oct-05                                    | pH          | 06-Oct-06    | 7.10   | Standard Units  |

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| Filter Influent |                |             |       |      |
|-----------------|----------------|-------------|-------|------|
| 31-Oct-05       | Free chlorine  | 19-Jan-2006 | 0.90  | mg/L |
| 31-Oct-05       | Free chlorine  | 06-April-06 | 0.81  | mg/L |
| 31-Oct-05       | Free chlorine  | 04-May-06   | 1.00  | mg/L |
| 31-Oct-05       | Free chlorine  | 06-July-06  | 1.21  | mg/L |
| 31-Oct-05       | Free chlorine  | 06-Oct-06   | 0.98  | mg/L |
| 31-Oct-05       | Total chlorine | 19-Jan-2006 | 1.13  | mg/L |
| 31-Oct-05       | Total chlorine | 06-April-06 | 0.96  | mg/L |
| 31-Oct-05       | Total chlorine | 04-May-06   | 1.10  | mg/L |
| 31-Oct-05       | Total chlorine | 06-July-06  | 1.49  | mg/L |
| 31-Oct-05       | Total chlorine | 06-Oct-06   | 1.25  | mg/L |
| Filter Effluent |                |             |       |      |
| 31-Oct-05       | Free chlorine  | 19-Jan-2006 | 0.04  | mg/L |
| 31-Oct-05       | Free chlorine  | 06-April-06 | 0.05  | mg/L |
| 31-Oct-05       | Free chlorine  | 04-May-06   | 0     | mg/L |
| 31-Oct-05       | Free chlorine  | 06-July-06  | 0.03  | mg/L |
| 31-Oct-05       | Free chlorine  | 06-Oct-06   | 0.01  | mg/L |
| 31-Oct-05       | Total chlorine | 19-Jan-2006 | 0.06  | mg/L |
| 31-Oct-05       | Total chlorine | 06-April-06 | 0.08  | mg/L |
| 31-Oct-05       | Total chlorine | 04-May-06   | 0     | mg/L |
| 31-Oct-05       | Total chlorine | 06-July-06  | 0.07  | mg/L |
| 31-Oct-05       | Total chlorine | 06-Oct-06   | 0.06  | mg/L |
| Filter Influent |                |             |       |      |
| 31-Oct-05       | MIB            | 05-Jan-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 02-Feb-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 06-April-06 | ND    | ng/L |
| 31-Oct-05       | MIB            | 04-May-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 01-June-06  | ND    | ng/L |
| 31-Oct-05       | MIB            | 06-July-06  | ND    | ng/L |
| 31-Oct-05       | MIB            | 12-July-06  | ND    | ng/L |
| 31-Oct-05       | MIB            | 03-Aug-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 22-Aug-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 23-Aug-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 24-Aug-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 07-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 13-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 14-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 15-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 18-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 19-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 25-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 26-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 27-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 28-Sep-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 02-Oct-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 05-Oct-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 02-Nov-06   | ND    | ng/L |
| 31-Oct-05       | MIB            | 21-Nov-06   | 6.52  | ng/L |
| 31-Oct-05       | MIB            | 22-Nov-06   | 1.7   | ng/L |
| 31-Oct-05       | MIB            | 23-Nov-06   | 3.78  | ng/L |
| 31-Oct-05       | MIB            | 24-Nov-06   | <1.47 | ng/L |

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|                        |         |             |       |      |
|------------------------|---------|-------------|-------|------|
| 31-Oct-05              | MIB     | 27-Nov-06   | 2.9   | ng/L |
| 31-Oct-05              | MIB     | 29-Nov-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 30-Nov-06   | <1.47 | ng/L |
| 31-Oct-05              | MIB     | 07-Dec-06   | ND    | ng/L |
| 31-Oct-05              | Geosmin | 05-Jan-06   | ND    | ng/L |
| 31-Oct-05              | Geosmin | 02-Feb-06   | ND    | ng/L |
| 31-Oct-05              | Geosmin | 06-April-06 | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 04-May-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 01-June-06  | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 06-July-06  | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 12-July-06  | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 03-Aug-06   | ND    | ng/L |
| 31-Oct-05              | Geosmin | 22-Aug-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 23-Aug-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 24-Aug-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 07-Sep-06   | 4.64  | ng/L |
| 31-Oct-05              | Geosmin | 13-Sep-06   | 4.52  | ng/L |
| 31-Oct-05              | Geosmin | 14-Sep-06   | 4.4   | ng/L |
| 31-Oct-05              | Geosmin | 15-Sep-06   | 3.41  | ng/L |
| 31-Oct-05              | Geosmin | 18-Sep-06   | 3.85  | ng/L |
| 31-Oct-05              | Geosmin | 19-Sep-06   | 2.38  | ng/L |
| 31-Oct-05              | Geosmin | 25-Sep-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 26-Sep-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 27-Sep-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 28-Sep-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 02-Oct-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 05-Oct-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 02-Nov-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 21-Nov-06   | 3.05  | ng/L |
| 31-Oct-05              | Geosmin | 22-Nov-06   | 1.83  | ng/L |
| 31-Oct-05              | Geosmin | 23-Nov-06   | <2.03 | ng/L |
| 31-Oct-05              | Geosmin | 24-Nov-06   | <2.11 | ng/L |
| 31-Oct-05              | Geosmin | 27-Nov-06   | 3.15  | ng/L |
| 31-Oct-05              | Geosmin | 29-Nov-06   | <1.75 | ng/L |
| 31-Oct-05              | Geosmin | 30-Nov-06   | 2.06  | ng/L |
| 31-Oct-05              | Geosmin | 07-Dec-06   | <1.75 | ng/L |
| <b>Filter Effluent</b> |         |             |       |      |
| 31-Oct-05              | MIB     | 05-Jan-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 02-Feb-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 06-April-06 | ND    | ng/L |
| 31-Oct-05              | MIB     | 04-May-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 01-June-06  | ND    | ng/L |
| 31-Oct-05              | MIB     | 06-July-06  | ND    | ng/L |
| 31-Oct-05              | MIB     | 12-July-06  | ND    | ng/L |
| 31-Oct-05              | MIB     | 03-Aug-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 22-Aug-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 23-Aug-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 24-Aug-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 07-Sep-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 13-Sep-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 14-Sep-06   | ND    | ng/L |
| 31-Oct-05              | MIB     | 15-Sep-06   | ND    | ng/L |

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|   |                  |             |       |      |
|---|------------------|-------------|-------|------|
| 31-Oct-05   | MIB              | 18-Sep-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 19-Sep-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 25-Sep-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 26-Sep-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 27-Sep-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 28-Sep-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 02-Oct-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 05-Oct-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 02-Nov-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 21-Nov-06   | <2.8  | ng/L |
| 31-Oct-05   | MIB              | 22-Nov-06   | <1.47 | ng/L |
| 31-Oct-05   | MIB              | 23-Nov-06   | <1.47 | ng/L |
| 31-Oct-05   | MIB              | 24-Nov-06   | <1.47 | ng/L |
| 31-Oct-05   | MIB              | 27-Nov-06   | <1.47 | ng/L |
| 31-Oct-05   | MIB              | 29-Nov-06   | ND    | ng/L |
| 31-Oct-05   | MIB              | 30-Nov-06   | <1.47 | ng/L |
| 31-Oct-05   | MIB              | 07-Dec-06   | ND    | ng/L |
| 31-Oct-05   | Geosmin          | 05-Jan-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 02-Feb-06   | ND    | ng/L |
| 31-Oct-05   | Geosmin          | 06-April-06 | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 04-May-06   | ND    | ng/L |
| 31-Oct-05   | Geosmin          | 01-June-06  | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 06-July-06  | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 12-July-06  | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 03-Aug-06   | ND    | ng/L |
| 31-Oct-05   | Geosmin          | 22-Aug-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 23-Aug-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 24-Aug-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 07-Sep-06   | 4.12  | ng/L |
| 31-Oct-05   | Geosmin          | 13-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 14-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 15-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 18-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 19-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 25-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 26-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 27-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 28-Sep-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 02-Oct-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 05-Oct-06   | 2.1   | ng/L |
| 31-Oct-05   | Geosmin          | 21-Nov-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 22-Nov-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 23-Nov-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 24-Nov-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 27-Nov-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 29-Nov-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 30-Nov-06   | <1.75 | ng/L |
| 31-Oct-05   | Geosmin          | 07-Dec-06   | <1.75 | ng/L |
| <b>Backwash/Wastewater Treatment Facilities' Effluent</b> |                  |             |       |      |
| 31-Oct-05   | Suspended Solids | 05-Jan-06   | 8.0   | mg/L |
| 31-Oct-05   | Suspended Solids | 02-Feb-06   | 13.2  | mg/L |
| 31-Oct-05   | Suspended Solids | 02-March-06 | 9.0   | mg/L |

|           |                                |             |        |      |
|-----------|--------------------------------|-------------|--------|------|
| 31-Oct-05 | Suspended Solids               | 06-April-06 | 8.0    | mg/L |
| 31-Oct-05 | Suspended Solids               | 04-May-06   | 8.0    | mg/L |
| 31-Oct-05 | Suspended Solids               | 01-June-06  | 4.67   | mg/L |
| 31-Oct-05 | Suspended Solids               | 06-July-06  | 9.67   | mg/L |
| 31-Oct-05 | Suspended Solids               | 03-Aug-06   | 8.3    | mg/L |
| 31-Oct-05 | Suspended Solids               | 07-Sept-06  | 4.0    | mg/L |
| 31-Oct-05 | Suspended Solids               | 05-Oct-06   | 8.0    | mg/L |
| 31-Oct-05 | Suspended Solids               | 02-Nov-06   | 6.67   | mg/L |
| 31-Oct-05 | Suspended Solids               | 06-Dec-06   | 2.67   | mg/L |
| 31-Oct-05 | Aluminum                       | 05-Jan-06   | 0.38   | mg/L |
| 31-Oct-05 | Aluminum                       | 06-April-06 | 0.009  | mg/L |
| 31-Oct-05 | Aluminum                       | 06-July-06  | 1.9    | mg/L |
| 31-Oct-05 | Aluminum                       | 05-Oct-06   | 1.81   | mg/L |
| 31-Oct-05 | Total Phosphorus               | 05-Jan-06   | <0.025 | mg/L |
| 31-Oct-05 | Total Phosphorus               | 06-April-06 | <0.025 | mg/L |
| 31-Oct-05 | Total Phosphorus               | 06-July-06  | <0.018 | mg/L |
| 31-Oct-05 | Total Phosphorus               | 05-Oct-06   | <0.018 | mg/L |
| 31-Oct-05 | Total Cl <sub>2</sub> residual | 03-Jan-06   | 0      | mg/L |
| 31-Oct-05 | Total Cl <sub>2</sub> residual | 06-April-06 | 0      | mg/L |
| 31-Oct-05 | Total Cl <sub>2</sub> residual | 06-July-05  | 0      | mg/L |
| 31-Oct-05 | Total Cl <sub>2</sub> residual | 06-Oct-05   | 0      | mg/L |

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

| Parameter       | Sample Date | Result Value              | Unit of Measure | Exceedance |
|-----------------|-------------|---------------------------|-----------------|------------|
| <b>Antimony</b> | 2-Nov-06    | ND                        | mg/L            | None       |
| <b>Arsenic</b>  | 2-Nov-06    | <0.823                    | ug/L            | None       |
| <b>Barium</b>   | 2-Nov-06    | 0.019                     | mg/L            | None       |
| <b>Boron</b>    | 2-Nov-06    | 0.015                     | mg/L            | None       |
| <b>Cadmium</b>  | 2-Nov-06    | ND                        | mg/L            | None       |
| <b>Chromium</b> | 2-Nov-06    | <0.002                    | mg/L            | None       |
| <b>Lead</b>     | 5-Oct-06    | <0.211<br>(Meadowvale PS) | ug/L            | None       |
| <b>Mercury</b>  | 2-Nov-06    | ND                        | mg/L            | None       |
| <b>Selenium</b> | 2-Nov-06    | <0.957                    | ug/L            | None       |
| <b>Sodium</b>   | 5-Oct-06    | 17.8                      | mg/L            | None       |
| <b>Uranium</b>  | 2-Nov-06    | 0.0002                    | mg/L            | None       |
| <b>Fluoride</b> | 31-Dec-06   | 0.69                      | mg/L            | None       |
| <b>Nitrite</b>  | 5-Oct-06    | <0.017                    | mg/L as N       | None       |
| <b>Nitrate</b>  | 5-Oct-06    | 0.524                     | mg/L as N       | None       |

ND indicates Not detectable, < indicates below Method Detection Limit. (MDL).

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

| Parameter   | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor  | 2-Nov-06    | ND           | ug/L            | None       |
| Aldicarb  | 2-Nov-06    | ND           | ug/L            | None       |
| Aldrin + Dieldrin                                   | 2-Nov-06    | ND           | ug/L            | None       |
| Atrazine + N-dealkylated metabolites                | 2-Nov-06    | ND           | ug/L            | None       |
| Azinphos-methyl                                     | 2-Nov-06    | ND           | ug/L            | None       |
| Bendiocarb  | 2-Nov-06    | ND           | ug/L            | None       |
| Benzene   | 2-Nov-06    | ND           | ug/L            | None       |
| Benzo(a)pyrene                                      | 2-Nov-06    | ND           | ug/L            | None       |
| Bromoxynil  | 2-Nov-06    | ND           | ug/L            | None       |
| Carbaryl  | 2-Nov-06    | ND           | ug/L            | None       |
| Carbofuran  | 2-Nov-06    | ND           | ug/L            | None       |
| Carbon Tetrachloride                                | 2-Nov-06    | ND           | ug/L            | None       |
| Chlordane (Total)                                   | 2-Nov-06    | ND           | ug/L            | None       |
| Chlorpyrifos  | 2-Nov-06    | ND           | ug/L            | None       |
| Cyanazine   | 2-Nov-06    | ND           | ug/L            | None       |
| Diazinon  | 2-Nov-06    | ND           | ug/L            | None       |
| Dicamba   | 2-Nov-06    | ND           | ug/L            | None       |
| 1,2-Dichlorobenzene                                 | 2-Nov-06    | ND           | ug/L            | None       |
| 1,4-Dichlorobenzene                                 | 2-Nov-06    | ND           | ug/L            | None       |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2-Nov-06    | ND           | ug/L            | None       |
| 1,2-Dichloroethane                                  | 2-Nov-06    | ND           | ug/L            | None       |
| 1,1-Dichloroethylene (vinylidene chloride)          | 2-Nov-06    | ND           | ug/L            | None       |
| Dichloromethane                                     | 2-Nov-06    | ND           | ug/L            | None       |
| 2,4 Dichlorophenol                                  | 2-Nov-06    | ND           | ug/L            | None       |
| 2,4-Dichlorophenoxy acetic acid (2,4-D)             | 2-Nov-06    | ND           | ug/L            | None       |
| Diclofop-methyl                                     | 2-Nov-06    | ND           | ug/L            | None       |
| Dimethoate  | 2-Nov-06    | ND           | ug/L            | None       |
| Dinoseb   | 2-Nov-06    | ND           | ug/L            | None       |
| Diquat  | 2-Nov-06    | ND           | ppb             | None       |
| Diuron  | 2-Nov-06    | ND           | ug/L            | None       |
| Glyphosate  | 2-Nov-06    | ND           | ug/L            | None       |
| Heptachlor + Heptachlor Epoxide                     | 2-Nov-06    | ND           | ug/L            | None       |
| Lindane (Total)                                     | 2-Nov-06    | ND           | ug/L            | None       |
| Malathion   | 2-Nov-06    | ND           | ug/L            | None       |
| Methoxychlor  | 2-Nov-06    | ND           | ug/L            | None       |
| Metolachlor   | 2-Nov-06    | ND           | ug/L            | None       |
| Metribuzin  | 2-Nov-06    | ND           | ug/L            | None       |
| Monochlorobenzene                                   | 2-Nov-06    | ND           | ug/L            | None       |
| Paraquat  | 2-Nov-06    | ND           | ppb             | None       |
| Parathion   | 2-Nov-06    | ND           | ug/L            | None       |
| Pentachlorophenol                                   | 2-Nov-06    | ND           | ug/L            | None       |
| Phorate   | 2-Nov-06    | ND           | ug/L            | None       |
| Picloram  | 2-Nov-06    | ND           | ug/L            | None       |
| Polychlorinated Biphenyls(PCB)                      | 2-Nov-06    | ND           | ug/L            | None       |
| Prometryne  | 2-Nov-06    | ND           | ug/L            | None       |
| Simazine  | 2-Nov-06    | ND           | ug/L            | None       |

|  |                        |       |      |      |
|--|------------------------|-------|------|------|
| <b>THM</b><br>(NOTE: show latest annual average)<br>(Western Distribution – Meadowvale P.S.) | Avg. as of<br>7-Dec-06 | 16.51 | ug/L | None |
| <b>Temephos</b>  | 2-Nov-06               | ND    | ug/L | None |
| <b>Terbufos</b>  | 2-Nov-06               | ND    | ug/L | None |
| <b>Tetrachloroethylene</b>   | 2-Nov-06               | ND    | ug/L | None |
| <b>2,3,4,6-Tetrachlorophenol</b>   | 2-Nov-06               | ND    | ug/L | None |
| <b>Triallate</b>   | 2-Nov-06               | ND    | ug/L | None |
| <b>Trichloroethylene</b>   | 2-Nov-06               | ND    | ug/L | None |
| <b>2,4,6-Trichlorophenol</b>   | 2-Nov-06               | ND    | ug/L | None |
| <b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>  | 2-Nov-06               | ND    | ug/L | None |
| <b>Trifluralin</b>   | 2-Nov-06               | ND    | ug/L | None |
| <b>Vinyl Chloride</b>  | 2-Nov-06               | ND    | ug/L | None |

ND indicates Not detectable, < indicates below Method Detection Limit. (MDL).

**List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.**

| Parameter | Result Value | Unit of Measure | Date of Sample |
|-----------|--------------|-----------------|----------------|
| None      | N/A          | N/A             | N/A            |
|           |              |                 |                |

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)