



2011
Annual Water Quality
Reports


Per: Ontario Regulation 170/03, s. 11 (1);
Ontario Regulation 247/06, s. 10 (1)



2011 Annual Water Quality Report

v.1.0

Reviewed by:



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Water Supervisor III

Feb 2 / 12

Date

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FEB 8 2012

Date



2011

Annual Water Quality Report

Table of Contents

| | |
|---|---------|
| Blezzard Valley/Capreol Drinking Water System | Page 4 |
| Sudbury Drinking Water System – David St. | Page 28 |
| Dowling Drinking Water System | Page 34 |
| Falconbridge Drinking Water System | Page 42 |
| Sudbury Drinking Water System - Garson | Page 48 |
| Onaping/Levack Drinking Water System | Page 56 |
| Vermillion Distribution System | Page 63 |
| Sudbury Drinking Water System - Wanapitei | Page 69 |

Part III Form 2

Section 11. ANNUAL REPORT.

| | |
|--|---------------------------------------|
| Drinking-Water System Number: | 210000737 |
| Drinking-Water System | Blezzard Valley - Capreol Well Supply |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|----------------------------|------------------------------|
| | |

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

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/Citizen Service Centre
- Public access/notice via other method

Describe your Drinking-Water System

The Blezzard Valley and Capreol Well systems were recognized as a single Drinking Water System in April 21, 2010. The system includes nine Blezzard Valley wells, which extend in a well field from Val Therese to Hanmer and two Capreol Wells adjacent to Greens Lake. All of the groundwater wells undergo primary treatment in the form of Ultra-Violet irradiation, secondary disinfection by chlorination, and fluoridation. The Capreol wells also include chemical addition for corrosion control. Continuous analyzers for free chlorine residual, fluoride, turbidity and UV equipment are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at several of the wells. In the event that the Capreol wells fail, the Valley wells can supply water to the Capreol Boosters located onsite. In the event that the entire system of wells and boosters fail, Capreol will continue to be supplied with water from the Valley Wells, but at a reduced pressure. Three water storage tanks are situated in Azilda, Chelmsford and Val Caron and all distribution piping completes the system. The Blezzard Valley distribution encompasses the communities of Chelmsford, Azilda, McCrea Heights, Blezzard Valley, Val Caron, Val Therese and Hanmer. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778, Polyphosphate

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

The roof at each of the Capreol wells, 'M' and 'J' were repaired at a cost of \$13,500.

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|----------------|--------|-----------------|-------------------|-------------------|
| 99673 | 2011/01/13 | Total Coliform | 1 | CFU | Resample/Re-test; | 2011/02/14 |
| 103071 | 2011/08/31 | Pressure | 15.3 | psi | none required | 2011/08/31 |
| 103908 | 2011/10/20 | Pressure | 10 | psi | none required | 2011/10/20 |
| 104448 | 2011/12/07 | Total Coliform | 1 | CFU | Resample/Re-test; | 2011/12/09 |

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 #) |
|-----------------------------------|-------------------|--|---|-----------------------|--------------------------------------|
| Raw: WELL A -DESCHENE WELL | | | | | |
| | 54 | 0 to 0 | 0 to 23 | | |
| Raw: WELL B- KENNETH WELL | | | | | |
| | 49 | 0 to 0 | 0 to 2 | | |
| Raw: WELL C -PHILIPPE WELL | | | | | |
| | 52 | 0 to 0 | 0 to 0 | | |
| Raw: WELL D -FROST WELL | | | | | |
| | 53 | 0 to 0 | 0 to 0 | | |
| Raw: WELL E -NOTRE DAME | | | | | |
| | 53 | 0 to 0 | 0 to 1 | | |
| Raw: WELL F -LINDEN WELL | | | | | |
| | 52 | 0 to 0 | 0 to 0 | | |
| Raw: WELL G -PHARAND WELL | | | | | |
| | 53 | 0 to 0 | 0 to 1 | | |
| Raw: WELL H -MICHELLE WELL | | | | | |
| | 53 | 0 to 0 | 0 to 5 | | |
| Raw: WELL I -I WELL | | | | | |
| | 51 | 0 to 0 | 0 to 63 | | |
| Raw: WELL J - GREEN LAKE | | | | | |
| | 50 | 0 to 0 | 0 to 1 | | |
| Raw: WELL M - GREEN LAKE | | | | | |
| | 50 | 0 to 0 | 0 to 1 | | |

| | | | | | |
|--|-----|--------|--------|-----|-----------|
| Treated: CAPREOL WELL SUPPLY - WELL M&J | | | | | |
| | 100 | 0 to 0 | 0 to 0 | 100 | 0 to 20 |
| Treated: WELL A - DESCHENE WELL | | | | | |
| | 52 | 0 to 0 | 0 to 0 | 45 | 0 to 780 |
| Treated: WELL B - KENNETH WELL | | | | | |
| | 48 | 0 to 0 | 0 to 0 | 47 | 0 to 10 |
| Treated: WELL C - PHILIPPE WELL | | | | | |
| | 53 | 0 to 0 | 0 to 0 | 53 | 0 to 10 |
| Treated: WELL D - FROST WELL | | | | | |
| | 52 | 0 to 0 | 0 to 1 | 52 | 0 to 10 |
| Treated: WELL E - NOTRE DAME WELL | | | | | |
| | 53 | 0 to 0 | 0 to 0 | 50 | 0 to 40 |
| Treated: WELL F - LINDEN WELL | | | | | |
| | 52 | 0 to 0 | 0 to 0 | 52 | 0 to 10 |
| Treated: WELL G - PHARAND WELL | | | | | |
| | 53 | 0 to 0 | 0 to 0 | 53 | 0 to 90 |
| Treated: WELL H - MICHELLE WELL | | | | | |
| | 53 | 0 to 0 | 0 to 0 | 51 | 0 to 50 |
| Treated: WELL I - I WELL | | | | | |
| | 51 | 0 to 0 | 0 to 0 | 51 | 0 to 1500 |
| Distribution | | | | | |
| | 603 | 0 to 0 | 0 to 1 | 143 | 0 to 70 |

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 #) |
|---------------------------------------|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.48 - 3.33 |

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

CAPREOL WELL SUPPLY - WELL M&J

| | | | |
|---|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 2.00 | NTU |
| Chlorine | 8,760 | 0.30 - 5.00 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.00 - 1.04 | mg/L |

WELL A - DESCHENE WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.02 - 2.00 | NTU |
| Chlorine | 8,760 | 0.90 - 4.55 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 0.99 | mg/L |

WELL B - KENNETH WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.05 - 2.00 | NTU |
| Chlorine | 8,760 | 0.55 - 3.96 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.21 | mg/L |

WELL C - PHILIPPE WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.02 - 1.10 | NTU |
| Chlorine | 8,760 | 0.74 - 3.43 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.34 | mg/L |

WELL D - FROST WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 0.55 | NTU |
| Chlorine | 8,760 | 0.75 - 2.79 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.13 | mg/L |

WELL E - NOTRE DAME WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 2.00 | NTU |
| Chlorine | 8,760 | 0.50 - 3.00 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.36 | mg/L |

WELL F - LINDEN WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 2.00 | NTU |
| Chlorine | 8,760 | 0.54 - 2.83 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.04 | mg/L |

WELL G - PHARAND WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 1.64 | NTU |
| Chlorine | 8,760 | 0.70 - 2.00 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.05 | mg/L |

WELL H - MICHELLE WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 2.00 | NTU |
| Chlorine | 8,760 | 0.30 - 1.90 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.27 | mg/L |

WELL I - I WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.04 - 2.00 | NTU |
| Chlorine | 8,760 | 0.49 - 3.50 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.00 - 1.42 | mg/L |

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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| | | | | |

WELL A - DESCHENE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/13 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/13 | 0.001 | mg/L | No |
| Barium | 2011/12/13 | 0.0159 | mg/L | No |
| Boron | 2011/12/13 | 0.006 | mg/L | No |
| Cadmium | 2011/12/13 | 0.0001 | mg/L | No |
| Chromium | 2011/12/13 | 0.0014 | mg/L | No |
| Mercury | 2011/12/13 | 0.00001 | mg/L | No |
| Selenium | 2011/12/13 | 0.001 | mg/L | No |
| Uranium | 2011/12/13 | 0.001 | mg/L | No |
| Nitrite | 2011/03/14 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/13 | 0.05 | mg/L | No |
| Nitrate | 2011/03/14 | 1.25 | mg/L | No |
| | 2011/06/14 | 1.42 | mg/L | No |
| | 2011/09/13 | 1.24 | mg/L | No |
| | 2011/12/13 | 1.25 | mg/L | No |
| Sodium | 2010/09/13 | 16.30 | mg/L | No |

WELL B - KENNETH WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.001 | mg/L | No |
| Barium | 2011/12/12 | 0.0489 | mg/L | No |
| Boron | 2011/12/12 | 0.0063 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|---------|------------|-------|------|----|
| Nitrite | 2011/03/14 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/14 | 0.31 | mg/L | No |
| | 2011/06/13 | 0.33 | mg/L | No |
| | 2011/12/12 | 0.16 | mg/L | No |
| Sodium | 2011/10/14 | 18.00 | mg/L | No |

WELL C - PHILIPPE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.0013 | mg/L | No |
| Barium | 2011/12/12 | 0.0103 | mg/L | No |
| Boron | 2011/12/12 | 0.002 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/14 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/14 | 0.13 | mg/L | No |
| | 2011/06/14 | 0.28 | mg/L | No |
| | 2011/09/13 | 0.22 | mg/L | No |
| | 2011/12/12 | 0.24 | mg/L | No |
| Sodium | 2010/09/21 | 22.20 | mg/L | Yes |

WELL D - FROST WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.0012 | mg/L | No |
| Barium | 2011/12/12 | 0.0314 | mg/L | No |
| Boron | 2011/12/12 | 0.011 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/14 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|----------------|------------|-------|------|----|
| Nitrate | 2011/03/14 | 0.35 | mg/L | No |
| | 2011/06/13 | 0.56 | mg/L | No |
| | 2011/09/13 | 0.61 | mg/L | No |
| | 2011/12/12 | 0.57 | mg/L | No |
| Sodium | 2010/09/13 | 16.20 | mg/L | No |

WELL E - NOTRE DAME WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.001 | mg/L | No |
| Barium | 2011/12/12 | 0.0144 | mg/L | No |
| Boron | 2011/12/12 | 0.0027 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.000012 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/15 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/09/16 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/15 | 0.67 | mg/L | No |
| | 2011/06/13 | 0.76 | mg/L | No |
| | 2011/09/16 | 0.72 | mg/L | No |
| | 2011/12/12 | 0.72 | mg/L | No |
| Sodium | 2010/09/14 | 12.60 | mg/L | No |

WELL F - LINDEN WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.0018 | mg/L | No |
| Barium | 2011/12/12 | 0.0242 | mg/L | No |
| Boron | 2011/12/12 | 0.002 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/15 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/09/14 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/15 | 0.15 | mg/L | No |
| | 2011/06/13 | 0.25 | mg/L | No |
| | 2011/09/14 | 0.25 | mg/L | No |
| | 2011/12/12 | 0.25 | mg/L | No |
| Sodium | 2010/09/16 | 12.90 | mg/L | No |

WELL G - PHARAND WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
|-----------|-------------|--------------|-----------------|------------|

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|----------|------------|---------|------|-----|
| Antimony | 2011/12/13 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/13 | 0.001 | mg/L | No |
| Barium | 2011/12/13 | 0.0437 | mg/L | No |
| Boron | 2011/12/13 | 0.014 | mg/L | No |
| Cadmium | 2011/12/13 | 0.0001 | mg/L | No |
| Chromium | 2011/12/13 | 0.001 | mg/L | No |
| Mercury | 2011/12/13 | 0.00001 | mg/L | No |
| Selenium | 2011/12/13 | 0.001 | mg/L | No |
| Uranium | 2011/12/13 | 0.001 | mg/L | No |
| Nitrite | 2011/03/15 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/09/19 | 0.05 | mg/L | No |
| | 2011/12/13 | 0.05 | mg/L | No |
| Nitrate | 2011/03/15 | 2.14 | mg/L | No |
| | 2011/06/13 | 2.57 | mg/L | No |
| | 2011/09/19 | 2.37 | mg/L | No |
| | 2011/12/13 | 2.3 | mg/L | No |
| Sodium | 2010/09/16 | 62.70 | mg/L | Yes |

WELL H - MICHELLE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.001 | mg/L | No |
| Barium | 2011/12/12 | 0.0166 | mg/L | No |
| Boron | 2011/12/12 | 0.0053 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/17 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/17 | 1.02 | mg/L | No |
| | 2011/06/14 | 1.37 | mg/L | No |
| | 2011/09/13 | 1.24 | mg/L | No |
| | 2011/12/12 | 1.23 | mg/L | No |
| Sodium | 2010/09/14 | 38.30 | mg/L | Yes |

WELL I - I WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.001 | mg/L | No |
| Barium | 2011/12/12 | 0.0135 | mg/L | No |
| Boron | 2011/12/12 | 0.002 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|----------------|------------|-------|------|----|
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/17 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/14 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/17 | 0.19 | mg/L | No |
| | 2011/06/14 | 0.1 | mg/L | No |
| | 2011/09/14 | 0.1 | mg/L | No |
| | 2011/12/12 | 0.1 | mg/L | No |
| Sodium | 2010/09/16 | 1.98 | mg/L | No |

WELL J - Capreol

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2010/12/15 | 0.0005 | mg/L | No |
| Arsenic | 2010/12/15 | 0.001 | mg/L | No |
| Barium | 2010/12/15 | 0.0164 | mg/L | No |
| Boron | 2010/12/15 | 0.0054 | mg/L | No |
| Cadmium | 2010/12/15 | 0.0001 | mg/L | No |
| Chromium | 2010/12/15 | 0.001 | mg/L | No |
| Mercury | 2010/12/15 | 0.00001 | mg/L | No |
| Selenium | 2010/12/15 | 0.001 | mg/L | No |
| Uranium | 2010/12/15 | 0.001 | mg/L | No |
| Nitrite | 2011/03/15 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/20 | 0.05 | mg/L | No |
| Nitrate | 2011/03/15 | 0.1 | mg/L | No |
| | 2011/06/14 | 0.1 | mg/L | No |
| | 2011/09/20 | 0.1 | mg/L | No |
| Sodium | 2010/09/16 | 16.90 | mg/L | No |

WELL M - Capreol

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/13 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/13 | 0.001 | mg/L | No |
| Barium | 2011/12/13 | 0.0396 | mg/L | No |
| Boron | 2011/12/13 | 0.002 | mg/L | No |
| Cadmium | 2011/12/13 | 0.0001 | mg/L | No |
| Chromium | 2011/12/13 | 0.001 | mg/L | No |
| Mercury | 2011/12/13 | 0.00001 | mg/L | No |
| Selenium | 2011/12/13 | 0.001 | mg/L | No |
| Uranium | 2011/12/13 | 0.001 | mg/L | No |
| Nitrite | 2011/03/15 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/20 | 0.05 | mg/L | No |
| | 2011/12/13 | 0.05 | mg/L | No |

| | | | | |
|----------------|------------|-------|------|----|
| Nitrate | 2011/03/15 | 0.1 | mg/L | No |
| | 2011/06/14 | 0.1 | mg/L | No |
| | 2011/09/20 | 0.1 | mg/L | No |
| | 2011/12/13 | 0.1 | mg/L | No |
| Sodium | 2010/09/16 | 13.50 | mg/L | No |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------------|-------------------|---------------------------------------|-----------------------|
| Plumbing | | mg/L | |
| Distribution | | mg/L | |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0187 | mg/L | No |

WELL A - DESCHENE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/13 | 0.00055 | mg/L | No |
| Aldicarb | 2011/12/13 | 0.00049 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/13 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/13 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/13 | 0.00041 | mg/L | No |
| Bendiocarb | 2011/12/13 | 0.00098 | mg/L | No |
| Benzene | 2011/12/13 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/13 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/13 | 0.0008 | mg/L | No |
| Carbaryl | 2011/12/13 | 0.00098 | mg/L | No |
| Carbofuran | 2011/12/13 | 0.00098 | mg/L | No |
| Carbon Tetrachloride | 2011/12/13 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/13 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/13 | 0.00041 | mg/L | No |
| Cyanazine | 2011/12/13 | 0.00041 | mg/L | No |
| Diazinon | 2011/12/13 | 0.00041 | mg/L | No |
| Dicamba | 2011/12/13 | 0.00032 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/13 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/13 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/13 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/13 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/13 | 0.000068 | mg/L | No |

| | | | | |
|--|------------|------------|------|----|
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/13 | 0.00032 | mg/L | No |
| Diclofop-methyl | 2011/12/13 | 0.00032 | mg/L | No |
| Dimethoate | 2011/12/13 | 0.00041 | mg/L | No |
| Dinoseb | 2011/12/13 | 0.00008 | mg/L | No |
| Diquat | 2011/12/13 | 0.007 | mg/L | No |
| Diuron | 2011/12/13 | 0.0049 | mg/L | No |
| Glyphosate | 2011/12/13 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/13 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/13 | 0.00000055 | mg/L | No |
| Malathion | 2011/12/13 | 0.00041 | mg/L | No |
| Methoxychlor | 2011/12/13 | 0.0000015 | mg/L | No |
| Metolachlor | 2011/12/13 | 0.00027 | mg/L | No |
| Metribuzin | 2011/12/13 | 0.00027 | mg/L | No |
| Monochlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/13 | 0.001 | mg/L | No |
| Parathion | 2011/12/13 | 0.00027 | mg/L | No |
| Pentachlorophenol | 2011/12/13 | 0.000068 | mg/L | No |
| Phorate | 2011/12/13 | 0.00041 | mg/L | No |
| Picloram | 2011/12/13 | 0.00008 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/13 | 0.0000046 | mg/L | No |
| Prometryne | 2011/12/13 | 0.00027 | mg/L | No |
| Simazine | 2011/12/13 | 0.00041 | mg/L | No |
| Temephos | 2011/12/13 | 0.014 | mg/L | No |
| Terbufos | 2011/12/13 | 0.00027 | mg/L | No |
| Tetrachloroethylene | 2011/12/13 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/13 | 0.000068 | mg/L | No |
| Triallate | 2011/12/13 | 0.00027 | mg/L | No |
| Trichloroethylene | 2011/12/13 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/13 | 0.000068 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/13 | 0.00008 | mg/L | No |
| Trifluralin | 2011/12/13 | 0.00027 | mg/L | No |
| Vinyl Chloride | 2011/12/13 | 0.00025 | mg/L | No |

WELL B - KENNETH WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00045 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00066 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00034 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0013 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00048 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0013 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0013 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00034 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00034 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00034 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00019 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.0001 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00019 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00019 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00034 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000048 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0066 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000066 | mg/L | No |
| Malathion | 2011/12/12 | 0.00034 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000018 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00023 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00023 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00023 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.0001 | mg/L | No |
| Phorate | 2011/12/12 | 0.00034 | mg/L | No |
| Picloram | 2011/12/12 | 0.000048 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000055 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00023 | mg/L | No |
| Simazine | 2011/12/12 | 0.00034 | mg/L | No |
| Temephos | 2011/12/12 | 0.018 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00023 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.0001 | mg/L | No |
| Triallate | 2011/12/12 | 0.00023 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.0001 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000048 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00023 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

WELL C - PHILIPPE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.0008 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00079 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.0006 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0016 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.0000094 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| Bromoxynil | 2011/12/12 | 0.00066 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0016 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0016 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.0006 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.0006 | mg/L | No |
| Diazinon | 2011/12/12 | 0.0006 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00026 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000055 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00026 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00026 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.0006 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000066 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0079 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000046 | mg/L | No |
| Malathion | 2011/12/12 | 0.0006 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000012 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.0004 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.0004 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.0004 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000055 | mg/L | No |
| Phorate | 2011/12/12 | 0.0006 | mg/L | No |
| Picloram | 2011/12/12 | 0.000066 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000038 | mg/L | No |
| Prometryne | 2011/12/12 | 0.0004 | mg/L | No |
| Simazine | 2011/12/12 | 0.0006 | mg/L | No |
| Temephos | 2011/12/12 | 0.022 | mg/L | No |
| Terbufos | 2011/12/12 | 0.0004 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000055 | mg/L | No |
| Triallate | 2011/12/12 | 0.0004 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000055 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000066 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.0004 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

WELL D - FROST WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00046 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00089 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00034 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0018 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00052 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0018 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0018 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00034 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00034 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00034 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00021 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000081 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00021 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00021 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00034 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000052 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0089 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000067 | mg/L | No |
| Malathion | 2011/12/12 | 0.00034 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000018 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00023 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00023 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00023 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000081 | mg/L | No |
| Phorate | 2011/12/12 | 0.00034 | mg/L | No |
| Picloram | 2011/12/12 | 0.000052 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000056 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00023 | mg/L | No |
| Simazine | 2011/12/12 | 0.00034 | mg/L | No |
| Temephos | 2011/12/12 | 0.025 | mg/L | No |

| | | | | |
|--|------------|----------|------|----|
| Terbufos | 2011/12/12 | 0.00023 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000081 | mg/L | No |
| Triallate | 2011/12/12 | 0.00023 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000081 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000052 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00023 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

WELL E - NOTRE DAME WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00044 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.0007 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00033 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0014 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00063 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0014 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0014 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00033 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00033 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00033 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00025 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00025 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00025 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00033 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000063 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.007 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.0000006 | mg/L | No |
| Malathion | 2011/12/12 | 0.00033 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000016 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00022 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00022 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |

| | | | | |
|--|------------|----------|------|----|
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00022 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| Phorate | 2011/12/12 | 0.00033 | mg/L | No |
| Picloram | 2011/12/12 | 0.000063 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.000005 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00022 | mg/L | No |
| Simazine | 2011/12/12 | 0.00033 | mg/L | No |
| Temephos | 2011/12/12 | 0.02 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00022 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| Triallate | 2011/12/12 | 0.00022 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000063 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00022 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

WELL F - LINDEN WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00048 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.0007 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00036 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0014 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00073 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0014 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0014 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00036 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00036 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00036 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00029 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000056 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00029 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00029 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00036 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000073 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |

| | | | | |
|--|------------|-----------|------|----|
| Diuron | 2011/12/12 | 0.007 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.0000053 | mg/L | No |
| Malathion | 2011/12/12 | 0.00036 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000014 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00024 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00024 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00024 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000056 | mg/L | No |
| Phorate | 2011/12/12 | 0.00036 | mg/L | No |
| Picloram | 2011/12/12 | 0.000073 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000044 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00024 | mg/L | No |
| Simazine | 2011/12/12 | 0.00036 | mg/L | No |
| Temephos | 2011/12/12 | 0.02 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00024 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000056 | mg/L | No |
| Triallate | 2011/12/12 | 0.00024 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000056 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000073 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00024 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

WELL G - PHARAND WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/13 | 0.00047 | mg/L | No |
| Aldicarb | 2011/12/13 | 0.00082 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/13 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/13 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/13 | 0.00035 | mg/L | No |
| Bendiocarb | 2011/12/13 | 0.0016 | mg/L | No |
| Benzene | 2011/12/13 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/13 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/13 | 0.00064 | mg/L | No |
| Carbaryl | 2011/12/13 | 0.0016 | mg/L | No |
| Carbofuran | 2011/12/13 | 0.0016 | mg/L | No |
| Carbon Tetrachloride | 2011/12/13 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/13 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/13 | 0.00035 | mg/L | No |
| Cyanazine | 2011/12/13 | 0.00035 | mg/L | No |
| Diazinon | 2011/12/13 | 0.00035 | mg/L | No |
| Dicamba | 2011/12/13 | 0.00026 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/13 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/13 | 0.00025 | mg/L | No |

| | | | | |
|--|------------|------------|------|----|
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/13 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/13 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/13 | 0.000061 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/13 | 0.00026 | mg/L | No |
| Diclofop-methyl | 2011/12/13 | 0.00026 | mg/L | No |
| Dimethoate | 2011/12/13 | 0.00035 | mg/L | No |
| Dinoseb | 2011/12/13 | 0.000064 | mg/L | No |
| Diquat | 2011/12/13 | 0.007 | mg/L | No |
| Diuron | 2011/12/13 | 0.0082 | mg/L | No |
| Glyphosate | 2011/12/13 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/13 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/13 | 0.00000054 | mg/L | No |
| Malathion | 2011/12/13 | 0.00035 | mg/L | No |
| Methoxychlor | 2011/12/13 | 0.0000014 | mg/L | No |
| Metolachlor | 2011/12/13 | 0.00023 | mg/L | No |
| Metribuzin | 2011/12/13 | 0.00023 | mg/L | No |
| Monochlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/13 | 0.001 | mg/L | No |
| Parathion | 2011/12/13 | 0.00023 | mg/L | No |
| Pentachlorophenol | 2011/12/13 | 0.000061 | mg/L | No |
| Phorate | 2011/12/13 | 0.00035 | mg/L | No |
| Picloram | 2011/12/13 | 0.000064 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/13 | 0.0000056 | mg/L | No |
| Prometryne | 2011/12/13 | 0.00023 | mg/L | No |
| Simazine | 2011/12/13 | 0.00035 | mg/L | No |
| Temephos | 2011/12/13 | 0.023 | mg/L | No |
| Terbufos | 2011/12/13 | 0.00023 | mg/L | No |
| Tetrachloroethylene | 2011/12/13 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/13 | 0.000061 | mg/L | No |
| Triallate | 2011/12/13 | 0.00023 | mg/L | No |
| Trichloroethylene | 2011/12/13 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/13 | 0.000061 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/13 | 0.000064 | mg/L | No |
| Trifluralin | 2011/12/13 | 0.00023 | mg/L | No |
| Vinyl Chloride | 2011/12/13 | 0.00025 | mg/L | No |

WELL H - MICHELLE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00049 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00063 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00037 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0013 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00057 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0013 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0013 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| Chlorpyrifos | 2011/12/12 | 0.00037 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00037 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00037 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00023 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.00005 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00023 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00023 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00037 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000057 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0063 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000068 | mg/L | No |
| Malathion | 2011/12/12 | 0.00037 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000018 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00024 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00024 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00024 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.00005 | mg/L | No |
| Phorate | 2011/12/12 | 0.00037 | mg/L | No |
| Picloram | 2011/12/12 | 0.000057 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000057 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00024 | mg/L | No |
| Simazine | 2011/12/12 | 0.00037 | mg/L | No |
| Temephos | 2011/12/12 | 0.018 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00024 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.00005 | mg/L | No |
| Triallate | 2011/12/12 | 0.00024 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.00005 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000057 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00024 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

WELL I - I WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00047 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00052 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| Azinphos-methyl | 2011/12/12 | 0.00035 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.001 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00052 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.001 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.001 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00035 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00035 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00035 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00021 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000066 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00021 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00021 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00035 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000052 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0052 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000067 | mg/L | No |
| Malathion | 2011/12/12 | 0.00035 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000018 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00024 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00024 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00024 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000066 | mg/L | No |
| Phorate | 2011/12/12 | 0.00035 | mg/L | No |
| Picloram | 2011/12/12 | 0.000052 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000056 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00024 | mg/L | No |
| Simazine | 2011/12/12 | 0.00035 | mg/L | No |
| Temephos | 2011/12/12 | 0.015 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00024 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000066 | mg/L | No |
| Triallate | 2011/12/12 | 0.00024 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000066 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000052 | mg/L | No |

| | | | | |
|----------------|------------|---------|------|----|
| Trifluralin | 2011/12/12 | 0.00024 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

WELL M - Capreol

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/13 | 0.00056 | mg/L | No |
| Aldicarb | 2011/12/13 | 0.00058 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/13 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/13 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/13 | 0.00042 | mg/L | No |
| Bendiocarb | 2011/12/13 | 0.0012 | mg/L | No |
| Benzene | 2011/12/13 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/13 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/13 | 0.00059 | mg/L | No |
| Carbaryl | 2011/12/13 | 0.0012 | mg/L | No |
| Carbofuran | 2011/12/13 | 0.0012 | mg/L | No |
| Carbon Tetrachloride | 2011/12/13 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/13 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/13 | 0.00042 | mg/L | No |
| Cyanazine | 2011/12/13 | 0.00042 | mg/L | No |
| Diazinon | 2011/12/13 | 0.00042 | mg/L | No |
| Dicamba | 2011/12/13 | 0.00023 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/13 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/13 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/13 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/13 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/13 | 0.00005 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/13 | 0.00023 | mg/L | No |
| Diclofop-methyl | 2011/12/13 | 0.00023 | mg/L | No |
| Dimethoate | 2011/12/13 | 0.00042 | mg/L | No |
| Dinoseb | 2011/12/13 | 0.000059 | mg/L | No |
| Diquat | 2011/12/13 | 0.007 | mg/L | No |
| Diuron | 2011/12/13 | 0.0058 | mg/L | No |
| Glyphosate | 2011/12/13 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/13 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/13 | 0.00000054 | mg/L | No |
| Malathion | 2011/12/13 | 0.00042 | mg/L | No |
| Methoxychlor | 2011/12/13 | 0.0000014 | mg/L | No |
| Metolachlor | 2011/12/13 | 0.00028 | mg/L | No |
| Metribuzin | 2011/12/13 | 0.00028 | mg/L | No |
| Monochlorobenzene | 2011/12/13 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/13 | 0.001 | mg/L | No |
| Parathion | 2011/12/13 | 0.00028 | mg/L | No |
| Pentachlorophenol | 2011/12/13 | 0.00005 | mg/L | No |
| Phorate | 2011/12/13 | 0.00042 | mg/L | No |
| Picloram | 2011/12/13 | 0.000059 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/13 | 0.0000045 | mg/L | No |
| Prometryne | 2011/12/13 | 0.00028 | mg/L | No |

| | | | | |
|--|------------|----------|------|----|
| Simazine | 2011/12/13 | 0.00042 | mg/L | No |
| Temephos | 2011/12/13 | 0.016 | mg/L | No |
| Terbufos | 2011/12/13 | 0.00028 | mg/L | No |
| Tetrachloroethylene | 2011/12/13 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/13 | 0.00005 | mg/L | No |
| Triallate | 2011/12/13 | 0.00028 | mg/L | No |
| Trichloroethylene | 2011/12/13 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/13 | 0.00005 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/13 | 0.000059 | mg/L | No |
| Trifluralin | 2011/12/13 | 0.00028 | mg/L | No |
| Vinyl Chloride | 2011/12/13 | 0.00025 | mg/L | No |

WELL J - Capreol

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2010/12/15 | 0.00048 | mg/L | No |
| Aldicarb | 2010/12/15 | 0.00051 | mg/L | No |
| Aldrin + Dieldrin | 2010/12/15 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2010/12/15 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2010/12/15 | 0.00036 | mg/L | No |
| Bendiocarb | 2010/12/15 | 0.001 | mg/L | No |
| Benzene | 2010/12/15 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2010/12/15 | 0.0000061 | mg/L | No |
| Bromoxynil | 2010/12/15 | 0.00073 | mg/L | No |
| Carbaryl | 2010/12/15 | 0.001 | mg/L | No |
| Carbofuran | 2010/12/15 | 0.001 | mg/L | No |
| Carbon Tetrachloride | 2010/12/15 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2010/12/15 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2010/12/15 | 0.00036 | mg/L | No |
| Cyanazine | 2010/12/15 | 0.00036 | mg/L | No |
| Diazinon | 2010/12/15 | 0.00036 | mg/L | No |
| Dicamba | 2010/12/15 | 0.00029 | mg/L | No |
| 1,2-Dichlorobenzene | 2010/12/15 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2010/12/15 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2010/12/15 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2010/12/15 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2010/12/15 | 0.00025 | mg/L | No |
| Dichloromethane | 2010/12/15 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2010/12/15 | 0.000059 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2010/12/15 | 0.00029 | mg/L | No |
| Diclofop-methyl | 2010/12/15 | 0.00029 | mg/L | No |
| Dimethoate | 2010/12/15 | 0.00036 | mg/L | No |
| Dinoseb | 2010/12/15 | 0.000073 | mg/L | No |
| Diquat | 2010/12/15 | 0.007 | mg/L | No |
| Diuron | 2010/12/15 | 0.0051 | mg/L | No |
| Glyphosate | 2010/12/15 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2010/12/15 | 0.000004 | mg/L | No |
| Linadane (Total) | 2010/12/15 | 0.00000058 | mg/L | No |
| Malathion | 2010/12/15 | 0.00036 | mg/L | No |
| Methoxychlor | 2010/12/15 | 0.0000015 | mg/L | No |
| Metolachlor | 2010/12/15 | 0.00024 | mg/L | No |

| | | | | |
|--|------------|-----------|------|----|
| Metribuzin | 2010/12/15 | 0.00024 | mg/L | No |
| Monochlorobenzene | 2010/12/15 | 0.00025 | mg/L | No |
| Paraquat | 2010/12/15 | 0.001 | mg/L | No |
| Parathion | 2010/12/15 | 0.00024 | mg/L | No |
| Pentachlorophenol | 2010/12/15 | 0.000059 | mg/L | No |
| Phorate | 2010/12/15 | 0.00036 | mg/L | No |
| Picloram | 2010/12/15 | 0.000073 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2010/12/15 | 0.0000048 | mg/L | No |
| Prometryne | 2010/12/15 | 0.00024 | mg/L | No |
| Simazine | 2010/12/15 | 0.00036 | mg/L | No |
| Temephos | 2010/12/15 | 0.014 | mg/L | No |
| Terbufos | 2010/12/15 | 0.00024 | mg/L | No |
| Tetrachloroethylene | 2010/12/15 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2010/12/15 | 0.000059 | mg/L | No |
| Triallate | 2010/12/15 | 0.00024 | mg/L | No |
| Trichloroethylene | 2010/12/15 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2010/12/15 | 0.000059 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2010/12/15 | 0.000073 | mg/L | No |
| Trifluralin | 2010/12/15 | 0.00024 | mg/L | No |
| Vinyl Chloride | 2010/12/15 | 0.00025 | mg/L | No |

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 | UOM | Date of Sample | Location |
|----------------|--------------|------|----------------|--------------------------|
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/13 | WELL A - DESCHENE WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | WELL B - KENNETH WELL |
| Benzo(a)pyrene | 0.0000094 | mg/L | 2011/12/12 | WELL C - PHILIPPE WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | WELL D - FROST WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | WELL E - NOTRE DAME WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | WELL F - LINDEN WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/13 | WELL G - PHARAND WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | WELL H - MICHELLE WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | WELL I - I WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/13 | WELL M - Capreol |

(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)

Part III Form 2

Section 11. ANNUAL REPORT.

| | |
|--|---|
| Drinking-Water System Number: | 220003537 |
| Drinking-Water System | Sudbury Drinking Water System - David St. |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|---|------------------------------|
| Sudbury Drinking Water System - Wanapitei | 210001111 |

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

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/Citizen Service Centre
 - Public access/notice via other method
-

Describe your Drinking-Water System

The David St. Water Treatment Plant is a surface water plant which draws water from Ramsey Lake. Proportionally, the plant services approximately 40% of Sudbury, however, most of the water produced at the David St. WTP is normally delivered to the south, west and downtown areas of Sudbury as well as supplying water to the Ellis reservoir. The plant is over 100 years old but has undergone numerous upgrades to meet changing needs and regulations. Treatment incorporated is in the form of membrane ultrafiltration, disinfection by chlorination, Ultra-Violet irradiation, fluoridation, pH adjustment and corrosion control with a polyphosphate. The plant is in full treatment compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite UN#1791, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Hydroxide UN#1824, Sodium Bisulfate UN#2693, Citric Acid UN#3625, Sodium Permanganate UN#3214

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

Replace 96 Zenon 1000 ultrafiltration modules at a cost of \$87,330.

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|-------------------------|--------|--------------------|----------------------------------|-------------------|
| 101624 | 2011/06/27 | UV | 0 | mJ/cm ² | Disinfectant restored/increased; | 2011/06/27 |
| 101969 | 2011/07/13 | Pressure | | psi | Resample/Re-test; | 2011/07/13 |
| 102202 | 2011/07/23 | Total coliform | 1 | CFU | Resample/Re-test; | 2011/07/25 |
| 102887 | 2011/08/21 | Chlorine residual | 0.05 | mg/L | no further action required | 2011/08/21 |
| 103400 | 2011/09/20 | E-Coli / Total coliform | 9 / 17 | CFU | Resample/Re-test; | 2011/09/21 |
| 104334 | 2011/11/27 | Pressure | | psi | Resample/Re-test; | 2011/12/02 |

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 #) |
|--|-------------------|--|---|-----------------------|--------------------------------------|
| Raw: RAMSEY LAKE | | | | | |
| | 53 | 0 to 80 | 0 to 1000 | | |
| Treated: SUDBURY (DAVID ST) Water Treatment Plant | | | | | |
| | 55 | 0 to 9 | 0 to 17 | 53 | 0 to 80 |
| Distribution | | | | | |
| | 1,412 | 0 to 0 | 0 to 1 | 325 | 0 to 100 |

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 #) |
|---------------------------------------|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.39 - 3.73 |

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

SUDBURY (DAVID ST) Water Treatment Plant

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.01 - 5.01 | NTU |
| Chlorine | 8,760 | 0.20 - 5.04 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.03 - 1.15 | mg/L |

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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| | | | | |

SUDBURY (DAVID ST) Water Treatment Plant

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.0014 | mg/L | No |
| Barium | 2011/12/12 | 0.0143 | mg/L | No |
| Boron | 2011/12/12 | 0.0037 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/15 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/12 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/15 | 0.1 | mg/L | No |
| | 2011/06/14 | 0.1 | mg/L | No |
| | 2011/09/12 | 0.1 | mg/L | No |
| | 2011/12/12 | 0.1 | mg/L | No |
| Sodium | 2010/10/25 | 55.10 | mg/L | Yes |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------|-------------------|---------------------------------------|-----------------------|
| Plumbing | 45 | 0.001 - 0.0077 mg/L | 0 |
| Distribution | 9 | 0.001 - 0.001 mg/L | 0 |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0753 | mg/L | No |

SUDBURY (DAVID ST) Water Treatment Plant

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00042 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00081 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00032 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0016 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00051 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0016 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0016 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00032 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00032 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00032 | mg/L | No |
| Dicamba | 2011/12/12 | 0.0002 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000052 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.0002 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.0002 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00032 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000051 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0081 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000049 | mg/L | No |
| Malathion | 2011/12/12 | 0.00032 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000013 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00021 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00021 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00021 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000052 | mg/L | No |
| Phorate | 2011/12/12 | 0.00032 | mg/L | No |
| Picloram | 2011/12/12 | 0.000051 | mg/L | No |

| | | | | |
|--|------------|-----------|------|----|
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000041 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00021 | mg/L | No |
| Simazine | 2011/12/12 | 0.00032 | mg/L | No |
| Temephos | 2011/12/12 | 0.023 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00021 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000052 | mg/L | No |
| Triallate | 2011/12/12 | 0.00021 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000052 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000051 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00021 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

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 | UOM | Date of Sample | Location |
|----------------|--------------|------|----------------|--|
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | SUDBURY (DAVID ST) Water Treatment Plant |

(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)

Part III Form 2

Section 11. ANNUAL REPORT.

| | |
|--|-------------------------------|
| Drinking-Water System Number: | 210001665 |
| Drinking-Water System | Dowling Drinking Water System |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|----------------------------|------------------------------|
| | |

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

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/Citizen Service Centre
- Public access/notice via other method _____

Describe your Drinking-Water System

The Dowling Drinking Water System encompasses all municipal water distribution within Dowling. The system includes Dowling Well #1 (Riverside) located on Riverside Dr., Dowling Well #2 (Lionel) located on Lionel Avenue and the Dowling Tank located off of Hwy. 144. Each of the wells is housed in individual structures. The wells pump water from an unconfined aquifer within a primarily sand and gravel formation. The discharge at each well site undergoes primary treatment in the form of Ultra-Violet irradiation, secondary disinfection by chlorination, and fluoridation before it enters the distribution system. Continuous analyzers for free chlorine residual, fluoride, turbidity and UV equipment are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at Lionel well and supplies power to both wells. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778

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

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|-----------|--------|-----------------|-------------------|-------------------|
| | | | | | | |

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 #) |
|--------------------------------|-------------------|--|---|-----------------------|--------------------------------------|
| Raw: LIONEL WELL#2 | | | | | |
| | 52 | 0 to 0 | 0 to 1 | | |
| Raw: RIVERSIDE WELL#1 | | | | | |
| | 51 | 0 to 0 | 0 to 0 | | |
| Treated: LIONEL WELL | | | | | |
| | 51 | 0 to 0 | 0 to 0 | 51 | 0 to 20 |
| Treated: RIVERSIDE WELL | | | | | |
| | 51 | 0 to 0 | 0 to 0 | 51 | 0 to 10 |
| Distribution | | | | | |
| | 152 | 0 to 0 | 0 to 0 | 36 | 0 to 2000 |

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 #) |
|--|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.30 - 3.39 |

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

LIONEL WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.00 - 2.00 | NTU |
| Chlorine | 8,760 | 0.44 - 5.00 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.04 | mg/L |

RIVERSIDE WELL

| | | | |
|--|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 1.99 | NTU |
| Chlorine | 8,760 | 0.44 - 1.98 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.30 | mg/L |

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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| | | | | |

LIONEL WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/16 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/16 | 0.001 | mg/L | No |
| Barium | 2011/12/16 | 0.0147 | mg/L | No |
| Boron | 2011/12/16 | 0.013 | mg/L | No |
| Cadmium | 2011/12/16 | 0.0001 | mg/L | No |
| Chromium | 2011/12/16 | 0.0011 | mg/L | No |
| Mercury | 2011/12/16 | 0.00001 | mg/L | No |
| Selenium | 2011/12/16 | 0.001 | mg/L | No |
| Uranium | 2011/12/16 | 0.001 | mg/L | No |
| Nitrite | 2011/03/16 | 0.05 | mg/L | No |
| | 2011/06/15 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/16 | 0.05 | mg/L | No |
| Nitrate | 2011/03/16 | 0.37 | mg/L | No |
| | 2011/06/15 | 0.56 | mg/L | No |
| | 2011/09/13 | 0.45 | mg/L | No |
| | 2011/12/16 | 0.4 | mg/L | No |
| Sodium | 2010/09/30 | 20.00 | mg/L | No |

RIVERSIDE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| | | | | |

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|----------|------------|---------|------|-----|
| Antimony | 2011/12/16 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/16 | 0.001 | mg/L | No |
| Barium | 2011/12/16 | 0.0117 | mg/L | No |
| Boron | 2011/12/16 | 0.0054 | mg/L | No |
| Cadmium | 2011/12/16 | 0.0001 | mg/L | No |
| Chromium | 2011/12/16 | 0.001 | mg/L | No |
| Mercury | 2011/12/16 | 0.00001 | mg/L | No |
| Selenium | 2011/12/16 | 0.001 | mg/L | No |
| Uranium | 2011/12/16 | 0.001 | mg/L | No |
| Nitrite | 2011/03/16 | 0.05 | mg/L | No |
| | 2011/06/15 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/16 | 0.05 | mg/L | No |
| Nitrate | 2011/03/16 | 0.54 | mg/L | No |
| | 2011/06/15 | 0.68 | mg/L | No |
| | 2011/09/13 | 0.66 | mg/L | No |
| | 2011/12/16 | 0.31 | mg/L | No |
| Sodium | 2010/09/29 | 31.40 | mg/L | Yes |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------|-------------------|---------------------------------------|-----------------------|
| Plumbing | | mg/L | |
| Distribution | | mg/L | |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0060 | mg/L | No |

LIONEL WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/16 | 0.00043 | mg/L | No |
| Aldicarb | 2011/12/16 | 0.00058 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/16 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/16 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/16 | 0.00033 | mg/L | No |
| Bendiocarb | 2011/12/16 | 0.0012 | mg/L | No |
| Benzene | 2011/12/16 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/16 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/16 | 0.00056 | mg/L | No |
| Carbaryl | 2011/12/16 | 0.0012 | mg/L | No |
| Carbofuran | 2011/12/16 | 0.0012 | mg/L | No |
| Carbon Tetrachloride | 2011/12/16 | 0.00025 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| Chlordane (Total) | 2011/12/16 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/16 | 0.00033 | mg/L | No |
| Cyanazine | 2011/12/16 | 0.00033 | mg/L | No |
| Diazinon | 2011/12/16 | 0.00033 | mg/L | No |
| Dicamba | 2011/12/16 | 0.00022 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/16 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/16 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/16 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/16 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/16 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/16 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/16 | 0.00005 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/16 | 0.00022 | mg/L | No |
| Diclofop-methyl | 2011/12/16 | 0.00022 | mg/L | No |
| Dimethoate | 2011/12/16 | 0.00033 | mg/L | No |
| Dinoseb | 2011/12/16 | 0.000056 | mg/L | No |
| Diquat | 2011/12/16 | 0.007 | mg/L | No |
| Diuron | 2011/12/16 | 0.0058 | mg/L | No |
| Glyphosate | 2011/12/16 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/16 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/16 | 0.00000044 | mg/L | No |
| Malathion | 2011/12/16 | 0.00033 | mg/L | No |
| Methoxychlor | 2011/12/16 | 0.0000012 | mg/L | No |
| Metolachlor | 2011/12/16 | 0.00022 | mg/L | No |
| Metribuzin | 2011/12/16 | 0.00022 | mg/L | No |
| Monochlorobenzene | 2011/12/16 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/16 | 0.001 | mg/L | No |
| Parathion | 2011/12/16 | 0.00022 | mg/L | No |
| Pentachlorophenol | 2011/12/16 | 0.00005 | mg/L | No |
| Phorate | 2011/12/16 | 0.00033 | mg/L | No |
| Picloram | 2011/12/16 | 0.000056 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/16 | 0.0000036 | mg/L | No |
| Prometryne | 2011/12/16 | 0.00022 | mg/L | No |
| Simazine | 2011/12/16 | 0.00033 | mg/L | No |
| Temephos | 2011/12/16 | 0.016 | mg/L | No |
| Terbufos | 2011/12/16 | 0.00022 | mg/L | No |
| Tetrachloroethylene | 2011/12/16 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/16 | 0.00005 | mg/L | No |
| Triallate | 2011/12/16 | 0.00022 | mg/L | No |
| Trichloroethylene | 2011/12/16 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/16 | 0.00005 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/16 | 0.000056 | mg/L | No |
| Trifluralin | 2011/12/16 | 0.00022 | mg/L | No |
| Vinyl Chloride | 2011/12/16 | 0.00025 | mg/L | No |

RIVERSIDE WELL

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/16 | 0.00057 | mg/L | No |
| Aldicarb | 2011/12/16 | 0.00052 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/16 | 0.000004 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| Atrazine + N-dealkylated metabolites | 2011/12/16 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/16 | 0.00043 | mg/L | No |
| Bendiocarb | 2011/12/16 | 0.001 | mg/L | No |
| Benzene | 2011/12/16 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/16 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/16 | 0.00053 | mg/L | No |
| Carbaryl | 2011/12/16 | 0.001 | mg/L | No |
| Carbofuran | 2011/12/16 | 0.001 | mg/L | No |
| Carbon Tetrachloride | 2011/12/16 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/16 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/16 | 0.00043 | mg/L | No |
| Cyanazine | 2011/12/16 | 0.00043 | mg/L | No |
| Diazinon | 2011/12/16 | 0.00043 | mg/L | No |
| Dicamba | 2011/12/16 | 0.00021 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/16 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/16 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/16 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/16 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/16 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/16 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/16 | 0.00005 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/16 | 0.00021 | mg/L | No |
| Diclofop-methyl | 2011/12/16 | 0.00021 | mg/L | No |
| Dimethoate | 2011/12/16 | 0.00043 | mg/L | No |
| Dinoseb | 2011/12/16 | 0.000053 | mg/L | No |
| Diquat | 2011/12/16 | 0.007 | mg/L | No |
| Diuron | 2011/12/16 | 0.0052 | mg/L | No |
| Glyphosate | 2011/12/16 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/16 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/16 | 0.00000048 | mg/L | No |
| Malathion | 2011/12/16 | 0.00043 | mg/L | No |
| Methoxychlor | 2011/12/16 | 0.0000013 | mg/L | No |
| Metolachlor | 2011/12/16 | 0.00028 | mg/L | No |
| Metribuzin | 2011/12/16 | 0.00028 | mg/L | No |
| Monochlorobenzene | 2011/12/16 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/16 | 0.001 | mg/L | No |
| Parathion | 2011/12/16 | 0.00028 | mg/L | No |
| Pentachlorophenol | 2011/12/16 | 0.00005 | mg/L | No |
| Phorate | 2011/12/16 | 0.00043 | mg/L | No |
| Picloram | 2011/12/16 | 0.000053 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/16 | 0.000004 | mg/L | No |
| Prometryne | 2011/12/16 | 0.00028 | mg/L | No |
| Simazine | 2011/12/16 | 0.00043 | mg/L | No |
| Temephos | 2011/12/16 | 0.015 | mg/L | No |
| Terbufos | 2011/12/16 | 0.00028 | mg/L | No |
| Tetrachloroethylene | 2011/12/16 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/16 | 0.00005 | mg/L | No |
| Triallate | 2011/12/16 | 0.00028 | mg/L | No |
| Trichloroethylene | 2011/12/16 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/16 | 0.00005 | mg/L | No |

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|--|------------|----------|------|----|
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/16 | 0.000053 | mg/L | No |
| Trifluralin | 2011/12/16 | 0.00028 | mg/L | No |
| Vinyl Chloride | 2011/12/16 | 0.00025 | mg/L | No |

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 | UOM | Date of Sample | Location |
|----------------|--------------|------|----------------|----------------|
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/16 | LIONEL WELL |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/16 | RIVERSIDE WELL |

(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)

Part III Form 2

Section 11. ANNUAL REPORT.

| | |
|--|-------------------------------|
| Drinking-Water System Number: | 240000020 |
| Drinking-Water System | Falconbridge Well Supply |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|----------------------------|------------------------------|
| | |

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

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/Citizen Service Centre
- Public access/notice via other method _____

Describe your Drinking-Water System

In April 2009, the City of Greater Sudbury purchased the Falconbridge Wells and Storage Tank from Xstrata. The Falconbridge system consists of three drilled wells, Numbers 5, 6, and 7, located north of the Sudbury Airport. All three wells share a common treatment building that includes a stand-by power generator, chlorine gas for disinfection and chemical addition for corrosion control. Continuous analyzers for free chlorine residual and turbidity are monitored by an onsite PLC. Water is supplied south to the Town of Falconbridge and north to the Nickel Rim Mine reservoir and the Sudbury Airport. The remainder of the system consists of an Elevated Storage Tank, a Fluoridation building, Booster Pumping Station and a Pressure Regulating Valve, all located within the town of Falconbridge. The City sells water to Xstrata and two industrial clients along the South transmission line and fluoridates the water before it enters the Falconbridge Municipal distribution system. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Phosphate, Hydrofluosilicic Acid UN#1778

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

Drinking-Water Systems Regulation O. Reg. 170/03

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|-----------|--------|-----------------|-------------------|-------------------|
| 100206 | 2011/03/14 | Sodium | | mg/L | Resample/Re-test; | 2011/03/14 |
| 104361 | 2011/11/29 | Fluoride | 2 | mg/L | Resample/Re-test; | 2011/11/29 |

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 #) |
|--|-------------------|--|---|-----------------------|--------------------------------------|
| Raw: FALCONBRIDGE WELL #5 | | | | | |
| | 52 | 0 to 0 | 0 to 0 | | |
| Raw: FALCONBRIDGE WELL #6 | | | | | |
| | 52 | 0 to 0 | 0 to 17 | | |
| Raw: FALCONBRIDGE WELL #7 | | | | | |
| | 52 | 0 to 0 | 0 to 0 | | |
| Treated: FALCONBRIDGE WELLS TREATED | | | | | |
| | 156 | 0 to 0 | 0 to 0 | 156 | 0 to 20 |
| Distribution | | | | | |
| | 210 | 0 to 0 | 0 to 0 | 52 | 0 to 190 |

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 #) |
|---------------------------------------|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.18 - 3.74 |

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

FALCONBRIDGE WELLS TREATED

| | | | |
|---|-------|-------------|------|
| Turbidity | 8,760 | 0.01 - 5.01 | NTU |
| Chlorine | 8,760 | 0.29 - 3.89 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 2.00 | mg/L |

*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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| | | | | |

FALCONBRIDGE WELLS TREATED

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/11 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/11 | 0.0018 | mg/L | No |
| Barium | 2011/12/11 | 0.0059 | mg/L | No |
| Boron | 2011/12/11 | 0.002 | mg/L | No |
| Cadmium | 2011/12/11 | 0.0001 | mg/L | No |
| Chromium | 2011/12/11 | 0.001 | mg/L | No |
| Mercury | 2011/12/11 | 0.00001 | mg/L | No |
| Selenium | 2011/12/11 | 0.001 | mg/L | No |
| Uranium | 2011/12/11 | 0.001 | mg/L | No |
| Nitrite | 2011/03/21 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/09/12 | 0.05 | mg/L | No |
| | 2011/12/11 | 0.05 | mg/L | No |
| Nitrate | 2011/03/21 | 0.15 | mg/L | No |
| | 2011/06/13 | 0.19 | mg/L | No |
| | 2011/09/12 | 0.2 | mg/L | No |
| | 2011/12/11 | 0.28 | mg/L | No |
| Sodium | 2010/09/29 | 21.50 | mg/L | Yes |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------|-------------------|---------------------------------------|-----------------------|
| Plumbing | | mg/L | |
| Distribution | | mg/L | |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0027 | mg/L | No |

FALCONBRIDGE WELLS TREATED

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/11 | 0.00065 | mg/L | No |
| Aldicarb | 2011/12/11 | 0.00062 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/11 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/11 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/11 | 0.00049 | mg/L | No |
| Bendiocarb | 2011/12/11 | 0.0012 | mg/L | No |
| Benzene | 2011/12/11 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/11 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/11 | 0.00065 | mg/L | No |
| Carbaryl | 2011/12/11 | 0.0012 | mg/L | No |
| Carbofuran | 2011/12/11 | 0.0012 | mg/L | No |
| Carbon Tetrachloride | 2011/12/11 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/11 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/11 | 0.00049 | mg/L | No |
| Cyanazine | 2011/12/11 | 0.00049 | mg/L | No |
| Diazinon | 2011/12/11 | 0.00049 | mg/L | No |
| Dicamba | 2011/12/11 | 0.00026 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/11 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/11 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/11 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/11 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/11 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/11 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/11 | 0.000056 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/11 | 0.00026 | mg/L | No |
| Diclofop-methyl | 2011/12/11 | 0.00026 | mg/L | No |
| Dimethoate | 2011/12/11 | 0.00049 | mg/L | No |
| Dinoseb | 2011/12/11 | 0.000065 | mg/L | No |
| Diquat | 2011/12/11 | 0.007 | mg/L | No |
| Diuron | 2011/12/11 | 0.0062 | mg/L | No |

| | | | | |
|--|------------|------------|------|----|
| Glyphosate | 2011/12/11 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/11 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/11 | 0.00000044 | mg/L | No |
| Malathion | 2011/12/11 | 0.00049 | mg/L | No |
| Methoxychlor | 2011/12/11 | 0.0000012 | mg/L | No |
| Metolachlor | 2011/12/11 | 0.00032 | mg/L | No |
| Metribuzin | 2011/12/11 | 0.00032 | mg/L | No |
| Monochlorobenzene | 2011/12/11 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/11 | 0.001 | mg/L | No |
| Parathion | 2011/12/11 | 0.00032 | mg/L | No |
| Pentachlorophenol | 2011/12/11 | 0.000056 | mg/L | No |
| Phorate | 2011/12/11 | 0.00049 | mg/L | No |
| Picloram | 2011/12/11 | 0.000065 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/11 | 0.0000037 | mg/L | No |
| Prometryne | 2011/12/11 | 0.00032 | mg/L | No |
| Simazine | 2011/12/11 | 0.00049 | mg/L | No |
| Temephos | 2011/12/11 | 0.017 | mg/L | No |
| Terbufos | 2011/12/11 | 0.00032 | mg/L | No |
| Tetrachloroethylene | 2011/12/11 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/11 | 0.000056 | mg/L | No |
| Triallate | 2011/12/11 | 0.00032 | mg/L | No |
| Trichloroethylene | 2011/12/11 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/11 | 0.000056 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/11 | 0.000065 | mg/L | No |
| Trifluralin | 2011/12/11 | 0.00032 | mg/L | No |
| Vinyl Chloride | 2011/12/11 | 0.00025 | mg/L | No |

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 | UOM | Date of Sample | Location |
|----------------|--------------|------|----------------|----------------------------|
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/11 | FALCONBRIDGE WELLS TREATED |

(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)

Part III Form 2
Section 11. ANNUAL REPORT.

| | |
|--|---------------------------------------|
| Drinking-Water System Number: | 220003485 |
| Drinking-Water System | Sudbury Drinking Water System -Garson |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|----------------------------|------------------------------|
| | |

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

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/Citizen Service Centre**
- Public access/notice via other method**

Describe your Drinking-Water System

The Garson system includes three wells, Garson Well #2 located near the intersection of Spruce St. and Falconbridge Hwy., plus Garson Wells #1 & 3 located on Falconbridge Hwy. The system's wells take water from an unconfined aquifer in a sand and gravel formation at Garson Well #2, and a sand, gravel, boulder formation at Garson #1 & 3. All the well groundwater is disinfected by chlorination and fluoridated at the well sites before it enters the distribution system. A common chemical room and a chlorine contact chamber is installed at the Garson #1 & 3 site. Garson Well #2 includes an oversized pipe on discharge that provides chlorine contact time. Continuous analyzers for free chlorine residual, fluoride and turbidity are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at the Garson #1 & 3 site. The Garson Distribution System encompasses all municipal distribution in the north east part of Garson, east of the intersection of O'Neil Drive W. and Falconbridge Road and North to include the Old Skead Rd. area of Garson. In the case of a complete system failure, a pressure sustaining valve, at the corner of O'Neil Drive W. and Falconbridge Hwy, ensures a water supply to Garson by connecting the Garson and Sudbury/Wanapitei Systems. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite UN#1791, Hydrofluosilicic Acid UN#1778

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

An additional \$13,000 was spent to complete remaining works for the 2010 standby power upgrades at the Garson #1 & 3 well site.

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|-----------|--------|-----------------|-------------------|-------------------|
| 100218 | 2011/03/15 | Free Cl2 | 0.03 | mg/L | Resample/Re-test; | 2011/03/21 |

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 #) |
|--|-------------------|--|---|-----------------------|--------------------------------------|
| Raw: GARSON WELL #1 | | | | | |
| | 52 | 0 to 0 | 0 to 0 | | |
| Raw: GARSON WELL #2 | | | | | |
| | 52 | 0 to 0 | 0 to 0 | | |
| Raw: GARSON WELL #3 | | | | | |
| | 52 | 0 to 0 | 0 to 2 | | |
| Treated: GARSON #1 & #3 WELL SUPPLY | | | | | |
| | 52 | 0 to 0 | 0 to 0 | 52 | 0 to 10 |
| Treated: GARSON #2 WELL TREATED | | | | | |
| | 52 | 0 to 0 | 0 to 0 | 52 | 0 to 10 |
| Distribution | | | | | |
| | 218 | 0 to 0 | 0 to 0 | 54 | 0 to 20 |

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 #) |
|---------------------------------------|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.13 - 3.70 |

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

GARSON #1 & #3 WELL SUPPLY

| | | | |
|---|-------|-------------|------|
| Turbidity | 8,760 | 0.02 - 1.98 | NTU |
| Chlorine | 8,760 | 0.40 - 1.86 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.09 | mg/L |

GARSON # 2 WELL TREATED

| | | | |
|---|-------|-------------|------|
| Turbidity | 8,760 | 0.03 - 2.00 | NTU |
| Chlorine | 8,760 | 0.49 - 3.05 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.20 - 1.11 | mg/L |

*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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| | | | | |

GARSON #1 & #3 WELL SUPPLY

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.0032 | mg/L | No |
| Barium | 2011/12/12 | 0.0418 | mg/L | No |
| Boron | 2011/12/12 | 0.002 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.0013 | mg/L | No |
| Nitrite | 2011/03/22 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|----------------|------------|-------|------|-----|
| Nitrate | 2011/03/22 | 0.53 | mg/L | No |
| | 2011/06/13 | 0.62 | mg/L | No |
| | 2011/09/13 | 0.63 | mg/L | No |
| | 2011/12/12 | 0.67 | mg/L | No |
| Sodium | 2010/09/29 | 24.10 | mg/L | Yes |

GARSON #2 WELL TREATED

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.0028 | mg/L | No |
| Barium | 2011/12/12 | 0.045 | mg/L | No |
| Boron | 2011/12/12 | 0.0085 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.00001 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.0011 | mg/L | No |
| Nitrite | 2011/03/22 | 0.05 | mg/L | No |
| | 2011/06/13 | 0.05 | mg/L | No |
| | 2011/09/12 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/22 | 0.78 | mg/L | No |
| | 2011/06/13 | 0.94 | mg/L | No |
| | 2011/09/12 | 0.93 | mg/L | No |
| | 2011/12/12 | 0.92 | mg/L | No |
| Sodium | 2010/09/29 | 60.30 | mg/L | Yes |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------------|-------------------|---------------------------------------|-----------------------|
| Plumbing | | mg/L | |
| Distribution | | mg/L | |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0043 | mg/L | No |

GARSON #2 WELL TREATED

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00089 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00079 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00066 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0016 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00051 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0016 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0016 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00066 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00066 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00066 | mg/L | No |
| Dicamba | 2011/12/12 | 0.0002 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000058 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.0002 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.0002 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00066 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000051 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0079 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000046 | mg/L | No |
| Malathion | 2011/12/12 | 0.00066 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000012 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00044 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00044 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00044 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000058 | mg/L | No |
| Phorate | 2011/12/12 | 0.00066 | mg/L | No |
| Picloram | 2011/12/12 | 0.000051 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000038 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00044 | mg/L | No |
| Simazine | 2011/12/12 | 0.00066 | mg/L | No |
| Temephos | 2011/12/12 | 0.022 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00044 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000058 | mg/L | No |
| Triallate | 2011/12/12 | 0.00044 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000058 | mg/L | No |

| | | | | |
|--|------------|----------|------|----|
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000051 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00044 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

GARSON #1 & #3 WELL SUPPLY

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00042 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.00073 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00032 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0015 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00054 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0015 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0015 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00032 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00032 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00032 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00021 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00021 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00021 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00032 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000054 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.0073 | mg/L | No |
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.00000046 | mg/L | No |
| Malathion | 2011/12/12 | 0.00032 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000012 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00021 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00021 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00021 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| Phorate | 2011/12/12 | 0.00032 | mg/L | No |
| Picloram | 2011/12/12 | 0.000054 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000039 | mg/L | No |

| | | | | |
|--|------------|----------|------|----|
| Prometryne | 2011/12/12 | 0.00021 | mg/L | No |
| Simazine | 2011/12/12 | 0.00032 | mg/L | No |
| Temephos | 2011/12/12 | 0.02 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00021 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00297 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| Triallate | 2011/12/12 | 0.00021 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000054 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000054 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00021 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

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 | UOM | Date of Sample | Location |
|----------------|--------------|------|----------------|----------------------------|
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | GARSON #1 & #3 WELL SUPPLY |
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | GARSON #2 WELL TREATED |

(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)

Part III Form 2
Section 11. ANNUAL REPORT.

| | |
|--|-------------------------------|
| Drinking-Water System Number: | 220003519 |
| Drinking-Water System | Onaping-Levack Well Supply |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|----------------------------|------------------------------|
| | |

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

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/Citizen Service Centre
- Public access/notice via other method _____

Describe your Drinking-Water System

The Onaping Potable Water System was constructed in 1971 and owned by Xstrata. In 2009, the City of Greater Sudbury purchased the system from Xstrata in order to supply potable water to the communities of Onaping and Levack. The City of Greater Sudbury completed all major upgrades required to join the previously separate Onaping and Levack distribution systems. The system was commissioned in November of 2009. The new Onaping/Levack system includes three drilled wells, Numbers 3, 4 and 5 with a common treatment building. Well pumps 3 and 4 are housed in a separate building while well pump 5 is situated in the treatment building. The treatment building provides chlorine gas injection for disinfection, fluoridation, chemical addition for corrosion control, Sodium Hydroxide for pH control and a stand-by power generator. Continuous analyzers for free chlorine residual, fluoride, turbidity and pH are monitored by an onsite PLC. An elevated storage tank with re-chlorination capabilities, a Pressure Control /Booster building with stand-by power and the distribution piping complete the system. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Hydroxide UN#1824

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

Installed a Sodium Hydroxide storage tank and dosing system at a cost of \$15,000.

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|-----------|--------|-----------------|-------------------|-------------------|
| | | | | | | |

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 #) |
|---|-------------------|--|---|-----------------------|--------------------------------------|
| Raw: WICKWAS WELL #3 | | | | | |
| | 52 | 0 to 0 | 0 to 0 | | |
| Raw: WICKWAS WELL #4 | | | | | |
| | 52 | 0 to 0 | 0 to 1 | | |
| Raw: WICKWAS WELL #5 | | | | | |
| | 52 | 0 to 0 | 0 to 4 | | |
| Treated: WICKWAS TREATED PUMPHOUSE | | | | | |
| | 52 | 0 to 0 | 0 to 0 | 52 | 0 to 20 |
| Distribution | | | | | |
| | 152 | 0 to 0 | 0 to 0 | 39 | 0 to 50 |

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 #) |
|---------------------------------------|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.52 - 2.89 |

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

WICKWAS TREATED PUMPHOUSE

| | | | |
|---|-------|-------------|------|
| Turbidity | 8,760 | 0.02 - 8.62 | NTU |
| Chlorine | 8,760 | 0.70 - 3.15 | mg/L |
| Fluoride (If the DWS provides fluoridation) | 8,760 | 0.05 - 1.17 | mg/L |

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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| 2011/09/14 | Sodium | 2011/01/05 | 67.6 | mg/L |
| 2011/09/14 | Sodium | 2011/01/05 | 57.7 | mg/L |
| 2011/09/14 | Sodium | 2011/01/05 | 91.9 | mg/L |
| 2011/09/14 | Sodium | 2011/02/08 | 66.7 | mg/L |
| 2011/09/14 | Sodium | 2011/02/08 | 75.1 | mg/L |
| 2011/09/14 | Sodium | 2011/02/08 | 57.1 | mg/L |
| 2011/09/14 | Sodium | 2011/03/02 | 56.7 | mg/L |
| 2011/09/14 | Sodium | 2011/03/02 | 51.9 | mg/L |
| 2011/09/14 | Sodium | 2011/03/02 | 82.2 | mg/L |
| 2011/09/14 | Sodium | 2011/04/07 | 73 | mg/L |
| 2011/09/14 | Sodium | 2011/04/07 | 80.1 | mg/L |
| 2011/09/14 | Sodium | 2011/04/07 | 62.7 | mg/L |
| 2011/09/14 | Sodium | 2011/05/04 | 69.7 | mg/L |
| 2011/09/14 | Sodium | 2011/05/04 | 71.5 | mg/L |
| 2011/09/14 | Sodium | 2011/05/04 | 55.2 | mg/L |
| 2011/09/14 | Sodium | 2011/06/09 | 66.1 | mg/L |
| 2011/09/14 | Sodium | 2011/06/09 | 74.8 | mg/L |
| 2011/09/14 | Sodium | 2011/06/09 | 79.2 | mg/L |
| 2011/09/14 | Sodium | 2011/07/06 | 64.7 | mg/L |
| 2011/09/14 | Sodium | 2011/07/06 | 89.5 | mg/L |
| 2011/09/14 | Sodium | 2011/07/06 | 70.6 | mg/L |
| 2011/09/14 | Sodium | 2011/08/03 | 62.6 | mg/L |
| 2011/09/14 | Sodium | 2011/08/03 | 82.5 | mg/L |
| 2011/09/14 | Sodium | 2011/08/03 | 71.5 | mg/L |
| 2011/09/14 | Sodium | 2011/09/08 | 69.4 | mg/L |
| 2011/09/14 | Sodium | 2011/09/08 | 77.1 | mg/L |
| 2011/09/14 | Sodium | 2011/09/08 | 94.6 | mg/L |
| 2011/09/14 | Sodium | 2011/10/04 | 87.9 | mg/L |
| 2011/09/14 | Sodium | 2011/10/04 | 90.7 | mg/L |
| 2011/09/14 | Sodium | 2011/10/04 | 56.8 | mg/L |
| 2011/09/14 | Sodium | 2011/11/01 | 54.9 | mg/L |
| 2011/09/14 | Sodium | 2011/11/01 | 59.8 | mg/L |
| 2011/09/14 | Sodium | 2011/11/01 | 67.7 | mg/L |
| 2011/09/14 | Sodium | 2011/12/14 | 47.5 | mg/L |
| 2011/09/14 | Sodium | 2011/12/14 | 44 | mg/L |
| 2011/09/14 | Sodium | 2011/12/14 | 58.8 | mg/L |

WICKWAS TREATED PUMPHOUSE

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
|-----------|-------------|--------------|-----------------|------------|

Drinking-Water Systems Regulation O. Reg. 170/03

| | | | | |
|----------|------------|---------|------|-----|
| Antimony | 2011/12/14 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/14 | 0.001 | mg/L | No |
| Barium | 2011/12/14 | 0.0856 | mg/L | No |
| Boron | 2011/12/14 | 0.0076 | mg/L | No |
| Cadmium | 2011/12/14 | 0.0001 | mg/L | No |
| Chromium | 2011/12/14 | 0.001 | mg/L | No |
| Mercury | 2011/12/14 | 0.00001 | mg/L | No |
| Selenium | 2011/12/14 | 0.001 | mg/L | No |
| Uranium | 2011/12/14 | 0.001 | mg/L | No |
| Nitrite | 2011/03/16 | 0.05 | mg/L | No |
| | 2011/06/15 | 0.05 | mg/L | No |
| | 2011/09/13 | 0.05 | mg/L | No |
| | 2011/12/14 | 0.05 | mg/L | No |
| Nitrate | 2011/03/16 | 0.71 | mg/L | No |
| | 2011/06/15 | 0.71 | mg/L | No |
| | 2011/09/13 | 0.7 | mg/L | No |
| | 2011/12/14 | 1.25 | mg/L | No |
| Sodium | 2010/09/29 | 61.00 | mg/L | Yes |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------|-------------------|---------------------------------------|-----------------------|
| Plumbing | 65 | 0.001 - 0.041 mg/L | 13 |
| Distribution | 17 | 0.001 - 0.006 mg/L | 0 |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0036 | mg/L | No |

WICKWAS TREATED PUMPHOUSE

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/14 | 0.00044 | mg/L | No |
| Aldicarb | 2011/12/14 | 0.00056 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/14 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/14 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/14 | 0.00033 | mg/L | No |
| Bendiocarb | 2011/12/14 | 0.0011 | mg/L | No |
| Benzene | 2011/12/14 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/14 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/14 | 0.00046 | mg/L | No |
| Carbaryl | 2011/12/14 | 0.0011 | mg/L | No |
| Carbofuran | 2011/12/14 | 0.0011 | mg/L | No |
| Carbon Tetrachloride | 2011/12/14 | 0.00025 | mg/L | No |

| | | | | |
|---|------------|------------|------|----|
| Chlordane (Total) | 2011/12/14 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/14 | 0.00033 | mg/L | No |
| Cyanazine | 2011/12/14 | 0.00033 | mg/L | No |
| Diazinon | 2011/12/14 | 0.00033 | mg/L | No |
| Dicamba | 2011/12/14 | 0.00018 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/14 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/14 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/14 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/14 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/14 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/14 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/14 | 0.00005 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/14 | 0.00018 | mg/L | No |
| Diclofop-methyl | 2011/12/14 | 0.00018 | mg/L | No |
| Dimethoate | 2011/12/14 | 0.00033 | mg/L | No |
| Dinoseb | 2011/12/14 | 0.000046 | mg/L | No |
| Diquat | 2011/12/14 | 0.007 | mg/L | No |
| Diuron | 2011/12/14 | 0.0056 | mg/L | No |
| Glyphosate | 2011/12/14 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/14 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/14 | 0.00000072 | mg/L | No |
| Malathion | 2011/12/14 | 0.00033 | mg/L | No |
| Methoxychlor | 2011/12/14 | 0.0000019 | mg/L | No |
| Metolachlor | 2011/12/14 | 0.00022 | mg/L | No |
| Metribuzin | 2011/12/14 | 0.00022 | mg/L | No |
| Monochlorobenzene | 2011/12/14 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/14 | 0.001 | mg/L | No |
| Parathion | 2011/12/14 | 0.00022 | mg/L | No |
| Pentachlorophenol | 2011/12/14 | 0.00005 | mg/L | No |
| Phorate | 2011/12/14 | 0.00033 | mg/L | No |
| Picloram | 2011/12/14 | 0.000046 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/14 | 0.000006 | mg/L | No |
| Prometryne | 2011/12/14 | 0.00022 | mg/L | No |
| Simazine | 2011/12/14 | 0.00033 | mg/L | No |
| Temephos | 2011/12/14 | 0.016 | mg/L | No |
| Terbufos | 2011/12/14 | 0.00022 | mg/L | No |
| Tetrachloroethylene | 2011/12/14 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/14 | 0.00005 | mg/L | No |
| Triallate | 2011/12/14 | 0.00022 | mg/L | No |
| Trichloroethylene | 2011/12/14 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/14 | 0.00005 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/14 | 0.000045 | mg/L | No |
| Trifluralin | 2011/12/14 | 0.00022 | mg/L | No |
| Vinyl Chloride | 2011/12/14 | 0.00025 | mg/L | No |

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 | UOM | Date of Sample | Location |
|----------------|--------------|------|----------------|---------------------------|
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/14 | WICKWAS TREATED PUMPHOUSE |

(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)

Part III Form 2
Section 11. ANNUAL REPORT.

| | |
|--|--------------------------------|
| Drinking-Water System Number: | 260006789 |
| Drinking-Water System | Vermillion Distribution System |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|----------------------------|------------------------------|
| Atikameksheng Anishnawbek | |

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

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/Citizen Service Centre
- Public access/notice via other method

Describe your Drinking-Water System

The City of Greater Sudbury purchases water from Vale (the Vermillion Water Treatment Plant) to supply the Vermillion Distribution System. The City owned distribution system supplies the communities of Lively, Naughton, Whitefish and Copper Cliff. Additional service was provided in 2005 to supply Atikameksheng Anishnawbek, formerly known as the Whitefish First Nations Reserve. Water is treated at the Vale Vermillion Water Treatment Plant to comply with O. Reg. 170/03 and pumped to the distribution. The monitoring of the quality of water in the Vermillion Distribution is the responsibility of the City of Greater Sudbury. The Vermillion Distribution System includes the Walden water storage tank and Walden metering chamber, both located in the Walden Industrial Park.

List all water treatment chemicals used over this reporting period

No chemical addition. Distribution system only.

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

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|-----------|--------|-----------------|-------------------|-------------------|
| | | | | | | |

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 #) |
|---------------------|-------------------|--|---|-----------------------|--------------------------------------|
| Distribution | 281 | 0 to 0 | 0 to 0 | 65 | 0 to 2000 |

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 #) |
|--|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.15 - 3.97 |

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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| | | | | |

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
|-----------|-------------|--------------|-----------------|------------|

| | | | | |
|----------|--|--|--|--|
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Chromium | | | | |
| Mercury | | | | |
| Selenium | | | | |
| Uranium | | | | |
| Nitrite | | | | |
| Nitrate | | | | |
| Sodium | | | | |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------|-------------------|--|-----------------------|
| Plumbing | | mg/L | |
| Distribution | | mg/L | |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0829 | mg/L | No |

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | | | | |
| Aldicarb | | | | |
| Aldrin + Dieldrin | | | | |
| Atrazine + N-dealkylated metabolites | | | | |
| Azinphos-methyl | | | | |
| Bendiocarb | | | | |
| Benzene | | | | |
| Benzo(a)pyrene | | | | |
| Bromoxynil | | | | |
| Carbaryl | | | | |
| Carbofuran | | | | |
| Carbon Tetrachloride | | | | |

| | | | | |
|---|--|--|--|--|
| Chlordane (Total) | | | | |
| Chlorpyrifos | | | | |
| Cyanazine | | | | |
| Diazinon | | | | |
| Dicamba | | | | |
| 1,2-Dichlorobenzene | | | | |
| 1,4-Dichlorobenzene | | | | |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | | | | |
| 1,2-Dichloroethane | | | | |
| 1,1-Dichloroethylene (vinylidene chloride) | | | | |
| Dichloromethane | | | | |
| 2-4 Dichlorophenol | | | | |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | | | | |
| Diclofop-methyl | | | | |
| Dimethoate | | | | |
| Dinoseb | | | | |
| Diquat | | | | |
| Diuron | | | | |
| Glyphosate | | | | |
| Heptachlor + Heptachlor Epoxide | | | | |
| Linadane (Total) | | | | |
| Malathion | | | | |
| Methoxychlor | | | | |
| Metolachlor | | | | |
| Metribuzin | | | | |
| Monochlorobenzene | | | | |
| Paraquat | | | | |
| Parathion | | | | |
| Pentachlorophenol | | | | |
| Phorate | | | | |
| Picloram | | | | |
| Polychlorinated Biphenyls(PCB) | | | | |
| Prometryne | | | | |
| Simazine | | | | |
| Temephos | | | | |
| Terbufos | | | | |
| Tetrachloroethylene | | | | |
| 2,3,4,6-Tetrachlorophenol | | | | |
| Triallate | | | | |
| Trichloroethylene | | | | |
| 2,4,6-Trichlorophenol | | | | |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | | | | |
| Trifluralin | | | | |
| Vinyl Chloride | | | | |

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 | UOM | Date of Sample | Location |
|-----------|--------------|-----|----------------|----------|
| | | | | |

(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)

Part III Form 2

Section 11. ANNUAL REPORT.

| | |
|--|---|
| Drinking-Water System Number: | 210001111 |
| Drinking-Water System | Sudbury Drinking Water System - Wanapitei |
| Drinking-Water System Owner: | City of Greater Sudbury |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | From 2011-01-01 To 2011-12-31 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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 |
|---|------------------------------|
| Markstay-Warren | 220013606 |
| Sudbury Drinking Water System - Garson | 220003485 |
| Sudbury Drinking Water System - David St. | 220003537 |

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

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/Citizen Service Centre
- Public access/notice via other method _____

Describe your Drinking-Water System

The Wanapitei Water Treatment Plant is a surface water plant which draws water from the Wanapitei River. Proportionally, the plant services approximately 60% of Sudbury, with the water being produced supplying the northeastern and northwestern areas of the City but includes Markstay, Coniston and parts of Garson (west of Falconbridge Road at O'Neil Drive) as well as supplying water to the Ellis Reservoir. The raw water is pumped from the Wanapitei River via the Wanapitei intake, a concrete intake structure that protrudes into the Wanapitei River. The raw intake pumphouse is situated north of Hwy. 17, in the community of Wahnapiatae. The raw water passes through a coarse aluminum bar screen then through two finer stainless steel screens inside the station before being pumped to the treatment plant to the west. The Wanapitei WTP utilizes a conventional water treatment process complete with Coagulation / Flocculation, Sedimentation and Filtration by dual media filters. Ultra-Violet irradiation was added to the end of the process in 2010. The plant is in full treatment compliance with O. Reg. 170/03.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Chlorite UN#1908, PAS-Aluminum Sulfate UN#3264, Hydrated Lime, Polyelectrolyte, Chlorine Dioxide (generated onsite)

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

Replacement of TP3 High Lift pump and motor at a cost of \$83,700.

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

| AWQI # | Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action |
|--------|---------------|-----------------|--------|--------------------|----------------------------------|-------------------|
| 99631 | 2011/01/08 | Total Coliform | 3 | CFU | Resample/Re-test; | 2011/01/11 |
| 99805 | 2011/01/26 | UV | 0 | mJ/cm ² | Disinfectant restored/increased; | 2011/01/26 |
| 99882 | 2011/02/03 | UV | 0 | mJ/cm ² | Disinfectant restored/increased; | 2011/02/03 |
| 100138 | 2011/03/07 | UV | 0 | mJ/cm ² | Disinfectant restored/increased; | 2011/03/07 |
| 100570 | 2011/03/17 | Watermain break | | | Flushing mains/pipes; | 2011/08/29 |
| 100458 | 2011/04/08 | UV | 0 | mJ/cm ² | Disinfectant restored/increased; | 2011/04/08 |
| 100993 | 2011/05/23 | Security Hatch | | | | 2011/05/30 |
| 101090 | 2011/05/30 | Hose Bib | | | Flushing mains/pipes; | 2011/06/01 |
| 103841 | 2011/10/16 | UV | 0 | mJ/cm ² | Disinfectant restored/increased; | 2011/10/16 |
| 104331 | 2011/11/26 | Total Coliform | 3 | CFU | Resample/Re-test; | 2011/12/02 |

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 #) |
|--|-------------------|--|---|-----------------------|--------------------------------------|
| Raw: WANAPITEI RIVER | | | | | |
| | 52 | 0 to 40 | 0 to 720 | | |
| Treated: HL PUMP STATION, Sudbury (Wanapitei) WTP | | | | | |
| | 52 | 0 to 0 | 0 to 0 | 52 | 0 to 430 |
| Distribution | | | | | |
| | 1,412 | 0 to 0 | 0 to 3 | 325 | 0 to 40 |

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 #) |
|---------------------------------------|------------------------|------------------------------------|
| Chlorine Residual Distribution System | 8,760 | 0.39 - 3.73 |

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

HL PUMP STATION, Sudbury (Wanapitei) WTP

| | | | |
|---|-------|-------------|------|
| Turbidity | | 0.08 - 0.50 | NTU |
| Chlorine | 8,760 | 0.64 - 3.25 | mg/L |
| Fluoride (If the DWS provides fluoridation) | | 0.05 - 0.85 | mg/L |

*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 or order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
| | | | | |

HL PUMP STATION, Sudbury (Wanapitei) WTP

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 2011/12/12 | 0.0005 | mg/L | No |
| Arsenic | 2011/12/12 | 0.001 | mg/L | No |
| Barium | 2011/12/12 | 0.0124 | mg/L | No |
| Boron | 2011/12/12 | 0.002 | mg/L | No |
| Cadmium | 2011/12/12 | 0.0001 | mg/L | No |
| Chromium | 2011/12/12 | 0.001 | mg/L | No |
| Mercury | 2011/12/12 | 0.000015 | mg/L | No |
| Selenium | 2011/12/12 | 0.001 | mg/L | No |
| Uranium | 2011/12/12 | 0.001 | mg/L | No |
| Nitrite | 2011/03/14 | 0.05 | mg/L | No |
| | 2011/06/14 | 0.05 | mg/L | No |
| | 2011/09/12 | 0.05 | mg/L | No |
| | 2011/12/12 | 0.05 | mg/L | No |
| Nitrate | 2011/03/14 | 0.1 | mg/L | No |
| | 2011/06/14 | 0.11 | mg/L | No |
| | 2011/09/12 | 0.1 | mg/L | No |
| | 2011/12/12 | 0.14 | mg/L | No |
| Sodium | 2010/09/13 | 1.53 | mg/L | No |

Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results (min#) - (max#) | Number of Exceedances |
|---------------|-------------------|---------------------------------------|-----------------------|
| Plumbing | 44 | 0.001 - 0.0015 mg/L | 0 |
| Distribution | 9 | 0.001 - 0.001 mg/L | 0 |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | 2011 | 0.0754 | mg/L | No |

HL PUMP STATION, Sudbury (Wanapitei) WTP

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|---|-------------|--------------|-----------------|------------|
| Alachlor | 2011/12/12 | 0.00043 | mg/L | No |
| Aldicarb | 2011/12/12 | 0.0006 | mg/L | No |
| Aldrin + Dieldrin | 2011/12/12 | 0.000004 | mg/L | No |
| Atrazine + N-dealkylated metabolites | 2011/12/12 | 0.0009 | mg/L | No |
| Azinphos-methyl | 2011/12/12 | 0.00032 | mg/L | No |
| Bendiocarb | 2011/12/12 | 0.0012 | mg/L | No |
| Benzene | 2011/12/12 | 0.00025 | mg/L | No |
| Benzo(a)pyrene | 2011/12/12 | 0.000009 | mg/L | No |
| Bromoxynil | 2011/12/12 | 0.00056 | mg/L | No |
| Carbaryl | 2011/12/12 | 0.0012 | mg/L | No |
| Carbofuran | 2011/12/12 | 0.0012 | mg/L | No |
| Carbon Tetrachloride | 2011/12/12 | 0.00025 | mg/L | No |
| Chlordane (Total) | 2011/12/12 | 0.000004 | mg/L | No |
| Chlorpyrifos | 2011/12/12 | 0.00032 | mg/L | No |
| Cyanazine | 2011/12/12 | 0.00032 | mg/L | No |
| Diazinon | 2011/12/12 | 0.00032 | mg/L | No |
| Dicamba | 2011/12/12 | 0.00022 | mg/L | No |
| 1,2-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| 1,4-Dichlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 2011/12/12 | 0.000005 | mg/L | No |
| 1,2-Dichloroethane | 2011/12/12 | 0.00025 | mg/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2011/12/12 | 0.00025 | mg/L | No |
| Dichloromethane | 2011/12/12 | 0.00025 | mg/L | No |
| 2-4 Dichlorophenol | 2011/12/12 | 0.000057 | mg/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2011/12/12 | 0.00022 | mg/L | No |
| Diclofop-methyl | 2011/12/12 | 0.00022 | mg/L | No |
| Dimethoate | 2011/12/12 | 0.00032 | mg/L | No |
| Dinoseb | 2011/12/12 | 0.000056 | mg/L | No |
| Diquat | 2011/12/12 | 0.007 | mg/L | No |
| Diuron | 2011/12/12 | 0.006 | mg/L | No |

| | | | | |
|--|------------|-----------|------|----|
| Glyphosate | 2011/12/12 | 0.02 | mg/L | No |
| Heptachlor + Heptachlor Epoxide | 2011/12/12 | 0.000004 | mg/L | No |
| Linadane (Total) | 2011/12/12 | 0.0000067 | mg/L | No |
| Malathion | 2011/12/12 | 0.00032 | mg/L | No |
| Methoxychlor | 2011/12/12 | 0.0000018 | mg/L | No |
| Metolachlor | 2011/12/12 | 0.00022 | mg/L | No |
| Metribuzin | 2011/12/12 | 0.00022 | mg/L | No |
| Monochlorobenzene | 2011/12/12 | 0.00025 | mg/L | No |
| Paraquat | 2011/12/12 | 0.001 | mg/L | No |
| Parathion | 2011/12/12 | 0.00022 | mg/L | No |
| Pentachlorophenol | 2011/12/12 | 0.000057 | mg/L | No |
| Phorate | 2011/12/12 | 0.00032 | mg/L | No |
| Picloram | 2011/12/12 | 0.000056 | mg/L | No |
| Polychlorinated Biphenyls(PCB) | 2011/12/12 | 0.0000058 | mg/L | No |
| Prometryne | 2011/12/12 | 0.00022 | mg/L | No |
| Simazine | 2011/12/12 | 0.00032 | mg/L | No |
| Temephos | 2011/12/12 | 0.017 | mg/L | No |
| Terbufos | 2011/12/12 | 0.00022 | mg/L | No |
| Tetrachloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,3,4,6-Tetrachlorophenol | 2011/12/12 | 0.000057 | mg/L | No |
| Triallate | 2011/12/12 | 0.00022 | mg/L | No |
| Trichloroethylene | 2011/12/12 | 0.00025 | mg/L | No |
| 2,4,6-Trichlorophenol | 2011/12/12 | 0.000057 | mg/L | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 2011/12/12 | 0.000056 | mg/L | No |
| Trifluralin | 2011/12/12 | 0.00022 | mg/L | No |
| Vinyl Chloride | 2011/12/12 | 0.00025 | mg/L | No |

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 | UOM | Date of Sample | Location |
|----------------|--------------|------|----------------|--|
| Benzo(a)pyrene | 0.000009 | mg/L | 2011/12/12 | HL PUMP STATION, Sudbury (Wanapitei) WTP |

(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)