The Belgrave Water System – 2010 Compliance Summary

March 22, 2011

This is a summary of the Belgrave well supply's regulatory compliance. A complete summary of flows, chemical use, laboratory analysis and activities on the system was forwarded earlier.

System Description
The Belgrave water system is characterized as a "secure ground water" system and is classified as a large municipally owned water system. The well house and its equipment have a daily maximum capacity to deliver 501 cubic metres of potable water per day to the Belgrave community in Morris Turnberry and the Humphrey subdivision in North Huron. The current water sources are two secure deep bed rock wells. The Jane St. production well is located at 32 Hamilton St. and the McCrae well is located at 23 McCrea St. Both are connected to the treatment plant at 28 McCrea St. via dedicated raw water mains.

The treatment plant is equipped with high lift pumps, backup diesel generator set, chlorinators, a chlorine contact reservoir, green sand filtration for iron removal and online monitoring. The system is controlled and monitored by an on site PLC.

The Belgrave well supply was put in service May 1, 2007 and replaces the former Jane St, McCrea St. and Humphrey subdivision water systems. The Jane St. and McCrea St. wells were upgraded and retained as sources. The Humphrey subdivision well was abandoned. The Humphrey well house was retained and acts as a sample station and houses an on line chlorine analyzer for the distribution system.

The distribution system in the Morris Turnberry side of Belgrave was constructed in 2008 and is constructed of PVC with polyethylene services. There is a connection to the Humphrey subdivision on the North Huron side. This distribution system is polyethylene and was constructed in the 1980's. The old Humphrey well house has been utilized as a sample station and houses the online chlorine analyzer for the distribution system.

There is no elevated storage to maintain pressure and the system pressure is maintained using pressure tanks and the well pumps.

The system has no hydrants and lacks the capacity to provide fire flows.

Chemicals Fed
Disinfectant
Disinfection was achieved on the Belgrave well supply through the use of 6% sodium hypochlorite.

In the well house this chemical was added prior to the water entering the chlorine contact chambers at dosages high enough to achieve both primary and secondary disinfection objectives. The free chlorine residual was monitored at the point of entry to the distribution system with a target residual of > 0.65 mg/l and < 1.25 mg/l which is typical of the treated water in other municipal water systems.
Iron Removal
The well water at Belgrave has iron levels higher than what is considered aesthetically acceptable. The well house provides chemically assisted iron filtration through green sand pressurized filters. The chemical used in 2008 was potassium permanganate. This chemical was fed to the raw water prior to the filters.

Flows
The Belgrave water system had 1 permit to take water # 02-P-1209 which allows 501 cubic metres per day from the combined wells. This limit was not exceeded in 2010. A full summary of the 2010 flows is attached.

The Belgrave treatment system has maximum flows as specified in C of A # 1790-7AWPLV. The maximum flow allowed is 6.9 litres per second. The limiting factor regarding flow is chlorine contact time in the chlorine contact reservoir. In order to meet the regulatory CT requirements increased flows beyond 6.9 litres per second must have an increased free chlorine residual to counter the decreased retention time in the chlorine contact main. The combination of maximum flows through the chlorine contact main and minimum free chlorine residuals exiting the contact main did not exceed the C of A limitations in 2010 as recorded by the flow meters and on line chlorine analyzer. The maximum daily flow in 2010 was 165 cubic meters or 33% of capacity. The average daily flow in 2010 was 76.6 cubic meters or 15% of capacity.

Precautionary Boil Water Notices
No precautionary boil water notices were placed on the Belgrave system in 2010.

Boil Water Advisory
There were no Boil Water Advisories issued by the Huron County MOH on the Belgrave water system in 2010.

Adverse Water Quality Indicators AWQI
There were no AWQI's in 2010. There is an ongoing exceedence of the fluoride MAC (1.5 mg/l). Fluoride is a naturally occurring element in the Belgrave well water and was present at the level of 1.66 mg/l on February 24, 2009. The Huron County Health Unit was notified as was the Sarnia District MOE.

Annual Ontario Ministry of the Environment Inspection
Jill Wales, MOE Drinking Water Inspector, inspected the water system and examined the water quality and operational records on November 9, 2010. She issued a report of her findings in December of 2010. She found no water quality related non compliant issues. The inspection report noted that although the chlorine analyzers at Belgrave were maintained on a regular basis the frequency did not match the manufacturer's recommendations. Procedures have been put in place to increase the frequency of the regular maintenance.
**Exceedences**

**Fluoride**
O. Reg. 169/03 (the Ontario Drinking Water Standard) has a MAC (maximum allowable concentration) of 1.5 mg/l for fluoride. The water from the Belgrave wells is monitored every 3 years for fluoride. They have naturally occurring levels that can exceed 1.5 mg/l.

As required by O. Reg. 170/03 schedule 13 section 13.8 an AWQI (adverse water quality indicator) is filed every 60 months. This was done in February 2009.

The results reported are as follows: 1.66 mg/l.

**Accreditation**

The 21 point Drinking Water Management System for the Belgrave water system was completed and submitted to the MOE in March of 2010.

An onsite audit of the DWQMS was conducted by an external auditor in February. In the closing interview the auditor indicated there were no major corrective actions required. She did indicate there was room for improvement and that she would be detailing one minor corrective action in her written report.

The auditor has advised that the report is complete and has been submitted to her superiors. Once the external audit report is issued and any corrective actions requested are resolved Veolia Water Canada will become the accredited operating authority for the Belgrave water system.

Laurie Cox – VWC Manager
<table>
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<tr>
<th>Month</th>
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<th>Fecal Coliform / Escherichia Coli</th>
<th>HPC or MF</th>
<th>BKG</th>
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<td>No. of Samples <em>Unsafe</em></td>
<td>No. of Samples <em>Deteriorating</em></td>
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**INDICATORS OF UNSAFE DRINKING WATER QUALITY:**

If any of the following conditions exist, the drinking water is judged unsafe:

1. *Escherichia coli* and/or fecal coliforms are detected in any distribution sample by any analytical method;
2. Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system;
3. In communal drinking water supplies, more than 10% of the samples (based on a minimum of 10 samples per month) show the presence of coliform organisms.

**INDICATORS OF DETERIORATING DRINKING WATER QUALITY**

Any of the following conditions indicate a deterioration in drinking water quality:

a) total coliforms detected as a single occurrence (but not *Escherichia coli* or other fecal coliforms);

b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;

c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;

d) *Aeromonas* spp., *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Clostridium* spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

If these conditions occur, the MOEE Dist. Mng. Should be notified.
### Belgrave Well Supply

**Treated Water**

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<th>BKU</th>
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<th>No. of Samples &quot;Safe&quot;</th>
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<tr>
<th>Month</th>
<th>Total Coliform</th>
<th>Fecal Coliform / Escherichia Coli</th>
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Water Works Name: Belgrave Well Supply
Well No. (if applicable):
Year: 2010
Serviced Population: 376
Water Works Number: 22007588
Veolia Water Canada

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<th>Treated Disinfectant</th>
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Disinfectant Used: Sodium Hypochlorite (EG. Chlorine Gas, NaOCl, etc.)
Form of Residual Displayed on above table: Free
Quantity of Disinfectant used during the year (kg): 37.18
Distribution system target residual (mg/L): > 0.20
Maximum Amount to be Taken per Day (m³/D): 362
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<th>Chlorine (gas)</th>
<th>Carbon</th>
<th>Fluoride</th>
<th>Sodium Hypochlorite</th>
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*Belgrave Well Supply*
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<th>Month</th>
<th>Treated Water Flow</th>
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<th>Treated Water Turbidity</th>
<th>Treated Disinfectant</th>
<th>Dist. System Disinfectant</th>
<th>Raw Water Turbidity</th>
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<tr>
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<td>Average Daily (m³)</td>
<td>Maximum</td>
<td>Monthly Total (m³)</td>
<td>No. of Samples Collected</td>
<td>No. of Samples &gt; 1 NTU</td>
<td>Average Turbidity (mg/L)</td>
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<td></td>
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<td>(m³)</td>
<td>(1000 m³)</td>
<td>(NTU)</td>
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Disinfectant Compound Used
(Sodium Hypochlorite)

Form of Residual Displayed on above table:
Free

Quantity of Disinfectant used during the year (kg):
60.13

Distribution system target residual (mg/L)
= 0.20

Maximum Amount To be Taken per Day (m³/ld)
138
<table>
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<th>Parameter</th>
<th>Analysis Date (MM/DD/YY)</th>
<th>TW Entry Point (ug/L)</th>
<th>Maximum Allowable Level (ug/L)</th>
<th>TW Entry Point (Mg/L)</th>
<th>Maximum Allowable Level (Mg/L)</th>
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<td>Iron</td>
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<td>2,4,5-trichlorophenoxyacetic acid</td>
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<td>Picloram</td>
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**OPTIONAL ANNUAL REPORT TEMPLATE**

**Drinking-Water System Number:** 220008257  
**Drinking-Water System Name:** Belgrave Well Supply  
**Drinking-Water System Owner:** Municipality of Morris Turnberry  
**Drinking-Water System Category:** Small Municipal Residential  
**Period being reported:** January 1, 2010 – December 31/2010

<table>
<thead>
<tr>
<th>Complete if your Category is Large Municipal Residential or Small Municipal Residential</th>
<th>Complete for all other Categories</th>
</tr>
</thead>
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<tr>
<td>Does your Drinking-Water System serve more than 10,000 people?  Yes [ ] No [X ]</td>
<td>Number of Designated Facilities served: N/A</td>
</tr>
<tr>
<td>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X ] No [ ]</td>
<td>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</td>
</tr>
<tr>
<td>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</td>
<td>Number of Interested Authorities you report to: N/A</td>
</tr>
</tbody>
</table>

Veolia Water Canada, 100 Cove Rd., Goderich, ON N7A 3Z2  
Municipality of Morris Turnberry, RR#4, 41342 Morris Road, Brussels, ON N0G 1H0

| Did you provide a copy of your annual report to each Interested Authority you report to for each Designated Facility? Yes [ ] No [ ] |

---

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:

<table>
<thead>
<tr>
<th>Drinking Water System Name</th>
<th>Drinking Water System Number</th>
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</thead>
<tbody>
<tr>
<td>Humphrey Water System</td>
<td>260082134</td>
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On April 20/2010, the Municipality of Morris-Turnberry and the Township of North Huron agreed to a transfer of ownership and the Humphrey System became part of the Belgrave System.
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 [X] 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
   [X] Public access/notice via other method – Supplied to the Municipality to display for residents.

Describe your Drinking-Water System

A new pumphouse located approx. 100 m. northeast of existing McCrea Well, housing treatment & control facilities including – a 38 mm diameter Jane well raw water discharge header, including a flow meter and flow control valve to limit the flow to the permitted rate. A 50 mm diameter McCrea well raw water discharge header and appurtenances, connected to the combined raw water discharge header, including a flow meter and flow control valve to limit the flow to the permitted rate. A 75 mm diameter combined Jane and McCrea raw water discharge header and appurtenances, connected to the Green sand filter influent header, complete with potassium permanganate chemical injections points, static mixer and decant recycle injection points, connected to the Green sand Filters.
A Potassium permanganate chemical feed system, consisting of two 200 L potassium permanganate solution tanks complete with secondary containment, on duty and one standby chemical metering pumps each rated at 0.47 L/hr for the Jane well and 1.11 L/hr for the McCrea well, complete with flow detection on the duty metering pump discharge lines, discharging into the respective well discharge headers, upstream of the greensand filters.
A 75 mm diameter filter effluent collection header and appurtenances, including chlorine injection points, discharging to the reservoir.
A primary disinfection system utilizing sodium hypochlorite, consisting of two 200 L solution tanks complete with secondary containment, and one duty and one standby flow-paced chemical metering pumps each rated at 0.79 L/hr, complete with flow detection on the metering pump discharge lines and automatic switch-over, discharging into the filter effluent collection header, upstream of the reservoir.
An online free chlorine residual analyzer to ensure continuous disinfection, including alarms on low/high parameter set points
All associated mechanical and electrical controls and appurtenances.
A two cell, one pump chamber, in-ground storage reservoir located below the proposed building, with a total working volume of approximately 156 m³ including hydraulic
interconnection between the reservoir cells and pump chamber, reservoir vents, overflows and access hatches;
A high lift pumping system located within the pump chamber of the proposed reservoir, consisting of three submersible constant speed high lift pumps and associated appurtenances, to provide lead/lag/standby operation, each high lift pump rate at 3.45 L/s at 58.8 m TDH, connected to the treated discharge water header; and six hydropneumatic pressure tanks with a total working volume of approx. 630 L, connected to the treated water discharge header, to supply pressure to the distribution system.
A 60kW (Prime) standby diesel generator with automatic transfer switch located within the proposed pumphouse to power the water treatment plant during emergency.
On April 20/2010, the Municipality of Morris-Turnberry and the Township of North Huron agreed on a transfer of ownership and the Humphrey System became part of the Belgrave System.
Maximum Amount of Water Taken at Jane St Well - 138,240 L/d
Maximum Amount of Water Taken at McCrae St Well - 362,880 L/d

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite
Potassium Permanganate

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

N/A

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

<table>
<thead>
<tr>
<th>Incident Date</th>
<th>Parameter</th>
<th>Result</th>
<th>Unit of Measure</th>
<th>Corrective Action</th>
<th>Corrective Action Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Number of Samples</th>
<th>Range of E.Coli Or Fecal Results (min #)-(max #)</th>
<th>Range of Total Coliform Results (min #)-(max #)</th>
<th>Number of HPC Samples</th>
<th>Range of HPC Results (min #)-(max #)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw-McCrea</td>
<td>52</td>
<td>0-(max #)</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Number of Grab Samples</th>
<th>Range of Results (min #)-(max #)</th>
<th>NOTE: For continuous monitors use 8760 as the number of samples.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw Turbidity-McCrea</td>
<td>48</td>
<td>0.11 – 2.34 NTU</td>
<td></td>
</tr>
<tr>
<td>Raw Turbidity-Jan</td>
<td>51</td>
<td>0.13 – 1.84 NTU</td>
<td></td>
</tr>
<tr>
<td>Chlorine Plant Online</td>
<td>8760</td>
<td>0.44 – 2.46 mg/L</td>
<td></td>
</tr>
<tr>
<td>Chlorine Plant Grab</td>
<td>362</td>
<td>0.72 – 2.70 mg/L</td>
<td></td>
</tr>
<tr>
<td>Distribution Chlorine Online</td>
<td>8760</td>
<td>0.67 – 2.34 mg/L</td>
<td></td>
</tr>
<tr>
<td>Distribution Chlorine Grab</td>
<td>362</td>
<td>0.74 – 2.70 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Date of legal instrument issued</th>
<th>Parameter</th>
<th>Date Sampled</th>
<th>Result</th>
<th>Unit of Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summary of Inorganic parameters tested during this reporting period or the most recent sample results- See Attachment

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems
Summary of lead testing under Schedule 15.1 during this reporting period
(applicable to the following drinking water systems; large municipal residential systems, small
municipal residential systems, and non-municipal year-round residential systems)

<table>
<thead>
<tr>
<th>Location Type</th>
<th>Number of Samples</th>
<th>Range of Lead Results (min#) – (max #)</th>
<th>Number of Exceedances</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summary of Organic parameters sampled during this reporting period or the most
recent sample results- See Attachment

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result Value</th>
<th>Unit of Measure</th>
<th>Date of Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoride</td>
<td>1.52 – 1.60</td>
<td>Mg/L</td>
<td>11/9/2010 12/22/10</td>
</tr>
</tbody>
</table>