



Water and Waste Department • Service des eaux et des déchets

November 30, 2010

Our Files: 040-17-08-29-00
040-17-08-15-00
040-17-08-35-00

Siobhan Burland-Ross
Environmental Assessment and Licensing Branch
Manitoba Conservation
Suite 160 – 123 Main Street
Winnipeg, Manitoba
R3C 1A5

Dear Ms. Burland-Ross:

RE: OCTOBER 2010 MONITORING REPORTS FOR THE WEST END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2669 E RR, THE NORTH END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2684 RRR AND THE SOUTH END WATER POLLUTION CONTROL CENTRE LICENCE NO. 2716 R

Attached please find the October 2010 Monitoring Reports for Licence No. 2669 E RR issued for the City of Winnipeg West End Water Pollution Control Centre (WEWPCC), Licence No. 2684 RRR issued for the City of Winnipeg North End Water Pollution Control Centre (NEWPCC) and Licence No. 2716 R issued for the City of Winnipeg South End Water Pollution Control Centre (SEWPCC).

Please note the following respecting the report for Licence #2669 E RR:

1. We are pleased to report that the ammonia results have met the limit set in the licence. The total nitrogen thirty-day rolling average met the limit set in the licence in October. The total phosphorus thirty-day rolling average did not meet the limit set in the licence in October. We have found that for most of October, the total phosphorus results met the limit set in the licence coming out of the treatment plant but the levels increase through the polishing cells. The City is continuing to investigate this issue.
2. There was no TSS result on October 29 due to a technician error. The TSS results met the limit set in the licence in October.
3. The cBOD5 results met the limit set in the licence in October.
4. We are pleased to report that during the month of October the fecal coliform and E. coli results met the limits set in the licence.

Please note the following respecting the report for Licence #2684 RRR:

1. The TSS results were in excess of the 30 mg/L limit in the licence on 3 days in October. The high TSS values were due to high flows and bypass events which contributed to the increased turbidity results. Although the flow exceeded 380 ML/day in accordance with the licence on October 26 and 27, the values from those days are included in the average result calculation. The TSS average result for October met the limit set in the licence.
2. The BOD5 results were in excess of the 30 mg/L limit in the licence on 5 days in October. The high BOD5 values on October 25 and 26 may have been caused by high flows due to rainfall events. Although the flow exceeded 380 ML/day in accordance with the licence on October 26, the value from that day is included in the average result calculation. The cause for the other high values is unknown. As indicated in earlier monitoring submissions, the cBOD5 and TOC results have been consistently low, and through testing we have shown that these high results may be due to nitrification occurring. The BOD5 average result for October met the limit set in the licence.
3. On October 26 and 27, the flow exceeded 380 ML/day in accordance with the licence; therefore the values from those days were not included in the geometric mean calculation. On October 28, the plant flow was beyond bypass levels at the time of sampling and the value from that day was not included in the geometric mean calculation. We are pleased to report that during the month of October the fecal coliform and E. coli results met the limits set in the licence.

Please note the following respecting the report for Licence #2716 R:

1. On October 6, there was no grab sample due to maintenance activities.
2. On October 26, the TSS result was in excess of the 30 mg/L limit in the licence. The high TSS value was due to high flows and bypass events which contributed to the increased turbidity result. Although the flow exceeded 98.6 ML/day in accordance with the licence on October 26, the value from that day is included in the average result calculation. The TSS average result for October met the limit set in the licence.
3. The BOD5 results were in excess of the 30 mg/L limit in the licence on 19 days in October. The high BOD5 values may have been caused by high flows due to rainfall events. As indicated in earlier monitoring submissions, the cBOD5 and TOC results have been consistently low, and through testing we have shown that these high results may also be due to nitrification occurring. The BOD5 average result for October did not meet the limit set in the licence.
4. On October 26, 27, and 28, the flow exceeded 98.6 ML/day in accordance with the licence; therefore the values from those days were not included in the geometric mean calculation. We are pleased to report that during the month of October the fecal coliform and E. coli results met the limits set in the licence.

As mentioned in previous submissions, the City has requested that the Province change the present "daily not to exceed" BOD5 and TSS limits in the licences to monthly or running 30 day average limits. This request is under consideration by Manitoba Conservation.

The city has also requested that the Province eliminate the BOD5 test. This test is not a valid test procedure for final effluent and should not be used for compliance assessment purposes. It is important to recognize that under certain conditions, the City of Winnipeg's wastewater treatment plants experience nitrifying activity. Under such conditions the BOD5 will continue to exceed the limits from time to time. The city has requested that the BOD5 test be replaced with the carbonaceous BOD5 test.

Please let me know of any concerns or questions respecting this submission. I may be reached at the below address, by telephone at 986-4807 or by email at kkjartanson@winnipeg.ca.

Thanks for your ongoing cooperation and understanding in this matter.

Yours sincerely,

Original signed by :

K.J.T. Kjartanson, P.Eng.
Manager of Environmental Standards

KJTK/RG
Attachments

c: Randy Webber, Regional Supervisor, Manitoba Conservation
B.D. MacBride, P.Eng.
W.J. Borlase, P.Eng.
M.A. Shkolny, P.Eng.

N:\Compliance Reporting\WPCC Monthly\2010 Submittal Letters WPCC\Submittal Letter WPCC Monitoring Oct 2010.doc

Embrace the Spirit • Vivez l'esprit

Environmental Standards Division • Division des normes environnementales
2230 Main Street • 2230, Rue Main • Winnipeg • Manitoba R2V 4T8
tel/tél. (204) 986-4684 • fax/télec. (204) 339-2147 • www.winnipeg.ca