



Water and Waste Department • Service des eaux et des déchets

October 29, 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: SEPTEMBER 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 September 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 September. The total phosphorus thirty-day rolling average did not meet the limit set in the licence in September. We have found that for most of September, 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 will be investigating this issue.
2. The TSS values exceeded the limit set in the licence on 8 days in September. This is likely due to seasonal algae growth in the polishing cells. The TSS average result met the limit set in the licence in September.
3. The cBOD5 results met the limit set in the licence in September.
4. We are pleased to report that during the month of September 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 6 days in September. 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 September 2 and 10, the values from those days are included in the average result calculation. The TSS average result for September met the limit set in the licence.
2. The BOD5 results were in excess of the 30 mg/L limit in the licence on 7 days in September. The high BOD5 values were caused by high flows due to rainfall events. Although the flow exceeded 380 ML/day in accordance with the licence on September 2 and 10, the values from

those days are included in the average result calculation. The BOD5 average result for September met the limit set in the licence.

3. On September 2, 3, 10 and 24, 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. As of September 13, we have had one UV disinfection channel out of service for repair which has contributed to the higher than normal coliform values. During the month of September, the geometric mean for the E. coli results met the limit set in the licence. The fecal coliform value did not meet the licence limit this month.

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

1. The TSS results were in excess of the 30 mg/L limit in the licence on 2 days in September. The high TSS values were due to high flows and bypass events which contributed to the increased turbidity results. Although the flow exceeded 98.6 ML/day in accordance with the licence on September 10, the value from that day is included in the average result calculation. The TSS average result for September met the limit set in the licence.
2. The BOD5 results were in excess of the 30 mg/L limit in the licence on 6 days in September. 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 September met the limit set in the licence
3. On September 2, 3, 10, 11 and 24 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. On September 1, 29 and 30 the plant flows were beyond bypass levels at the time of sampling and the values from those days were not included in the geometric mean. We are pleased to report that during the month of September 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 above 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.