



Water and Waste Department • Service des eaux et des déchets

April 28, 2011

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

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

Dear Ms. Burland-Ross:

RE: MARCH 2011 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 March 2011 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. On March 17, there was no 24 hour composite effluent sample due a sampler malfunction.
2. 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 March. The total phosphorus thirty-day rolling average met the limit set in the licence on the first day in March. 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.
3. The TSS results met the limit set in the licence in March.
4. There was no cBOD5 result on March 27 due to a quality control failure. The cBOD5 results met the limit set in the licence in March.
5. The fecal coliform and E. coli geometric means did not meet the limits set in the licence in March. The high values on some days were a result of bypassing into the ice covered polishing cells resulting in short-circuiting.

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 8 days in March. The high TSS values were due to intermittent high flows and bypass events which contributed to the increased turbidity results. The TSS average result for March met the limit set in the licence.

2. There were no results for BOD5 and cBOD5 on March 27 due to a quality control failure. The BOD5 results were in excess of the 30 mg/L limit in the licence on 15 days in March. On March 15, 16, 20, 30 and 31, the high BOD5 values were due to intermittent high flows and bypass events. 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 March did not meet the limit set in the licence.
3. We are pleased to report that during the month of March 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 March 16, there was no result for pH due to a technician error.
2. The TSS results were in excess of the 30 mg/L limit in the licence on 2 days in March. The high TSS values were due to intermittent high flows and bypass events which contributed to the increased turbidity results. The TSS average result for March met the limit set in the licence.
3. There were no results for BOD5 and cBOD5 on March 27 due to a quality control failure. On March 21, the BOD5 was in excess of the 30 mg/L limit due to intermittent high flows and bypass events. The BOD5 average result met the limit set in the licence in March.
4. We are pleased to report that during the month of March 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: Mark Stephens, Manitoba Conservation
B.D. MacBride, P.Eng.
W.J. Borlase, P.Eng.
M.A. Shkolny, P.Eng.