



Water and Waste Department • Service des eaux et des déchets

June 30, 2010

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

Ryan Coulter
Environmental Assessment and Licensing Branch
Manitoba Conservation
Suite 160 – 123 Main Street
Winnipeg, Manitoba
R3C 1A5

Dear Mr. Coulter:

RE: MAY 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 May 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 May. The total phosphorus thirty-day rolling average did not meet the limit set in the licence as of May 17. In May, we experienced process issues with our secondary which resulted in by-passing.
2. There were no results for temperature on May 12 and 13 due to an instrument error.
3. On May 27, there were no results for ammonia, ortho-phosphorus, total phosphorus and nitrogen due to a sample preparation error.
4. On May 25, the TSS value exceeded the limit set in the licence. This may be due to seasonal algae growth in the polishing cells. The TSS average result met the limit set in the licence in May.
5. There was no result for cBOD5 on May 15 due to quality control failure. The cBOD5 licence limit was met in May.
6. We are pleased to report that during the month of May 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 7 days in May. 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 May 5, and 28 to 31, the values from those days are included in the average result calculation. The TSS average result for May met the limit set in the licence.
2. There were no results for cBOD5 and BOD5 on May 15 due to quality control failure. The BOD5 results were in excess of the 30 mg/L limit in the licence on 9 days in May. On May 4 and 24, the high BOD5 values were due to intermittent high flows due to rainfall events. Although the flow exceeded 380 ML/day in accordance with the licence on May 5, 28, and 29, the values from those days are included in the average result calculation. The cause for the other high values is unknown. As indicated in earlier monitoring submissions, we have shown that these high results may be due to nitrification occurring. The BOD5 average result for May met the limit set in the licence.
3. On May 2 and 10, the plant flows were beyond bypass levels at the time of sampling and the values from that day were not included in the geometric mean calculation. On May 5, 25, and 28 to 31, the flow exceeded 380 ML/day in accordance with the licence therefore the values from that day were not included in the geometric mean calculation. We are pleased to report that during the month of May 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. There were no results for temperature on May 7 due to an instrument error.
2. There were no grab samples on May 4, 13, 19 and 21 due to scheduled maintenance activities.
3. The TSS results were in excess of the 30 mg/L limit in the licence on 18 days in May. The high TSS values were due to secondary bulking during high flows due to wet weather and scheduled maintenance events. Although the flow exceeded 98.6 ML/day in accordance with the licence on May 25, and 28 to 30, the values from those days are included in the average result calculation. The TSS average result for May did not meet the limit set in the licence.
4. There were no results for cBOD5 and BOD5 on May 15 due to quality control failure. The BOD5 result was in excess of the 30 mg/L limit in the licence on 15 days in May. Although the flow exceeded 98.6 ML/day in accordance with the licence on May 25, 28, and 29, the values from those days are included in the average result calculation. As mentioned above, high flows and maintenance activities may have contributed to the high values. The BOD5 average result for May did not meet the limit set in the licence.
5. On May 6 and 7, the plant flows were beyond bypass levels at the time of sampling and the values from that day were not included in the geometric mean calculation. On May 5, 25, and 28 to 31, the flow exceeded 98.6 ML/day in accordance with the licence therefore the values from that day were not included in the geometric mean calculation. We are pleased to report that during the month of May 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

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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: Cliff Lee, P.Eng., Assistant Director of Red River Region
 B.D. MacBride, P.Eng. W.J. Borlase, P.Eng. M.A. Shkolny, P.Eng.

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