



Water and Waste Department • Service des eaux et des déchets

January 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: DECEMBER 2009 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 December 2009 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. As mentioned in the previous submission, we have been experiencing issues with our nitrogen and phosphorus analysis. We have corrected the problems and re-analyzed available samples. On December 1, 11, 15, 19, and 29 there were no results for total nitrogen due to a laboratory error. Although some samples were re-analyzed when we had enough sample volume, the results were not representative. There were no results for ammonia, total nitrogen and ortho-phosphorus on December 5 due to a sample preparation error. 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 December. The total phosphorus thirty-day rolling average met the limit set in the licence in December.
2. There were no results for temperature on December 15 and from December 17 to 31 due to a technician error.
3. There were no results for cBOD5 on December 22 due to a quality control failure. There were no results on December 27 for cBOD5 due to an instrument error. The 24 hour composite samples were not analyzed for cBOD5 from December 10 to December 17 and December 19 to December 21 due to a technician error. The cBOD5 licence limit was met in December.
4. The TSS results met the limit set in the licence in December.
5. We are pleased to report that during the month of December the fecal coliform and E. coli results met the limits set in the licence.

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

1. On December 3, there was no result for total phosphorus due to a laboratory error. On December 12, 13, and 22, there were no results for total nitrogen due to a laboratory error. The samples were re-analyzed and the results were not representative.
2. There were no results for temperature on December 25 and December 26 due to a technician error.
3. On December 22, there were no results for cBOD5 and BOD5 due to a quality control failure. On December 27, there were no results for cBOD5 and BOD5 due to an instrument error. The BOD5 result was in excess of the 30 mg/L limit in the licence on 5 days in December. The cause for these 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 are due to nitrification occurring. The BOD5 average result for December met the limit set in the licence.
4. The TSS results for December met the limit set in the licence.
5. There were no grab samples on December 29 and 30 because the sampling building could not be accessed due to adverse weather conditions.
6. During the month of December, 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. The plant has been experiencing some operational issues and we hope to have them resolved in the near future.

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

1. On December 8, 9, 10, 11, 13, 14, 15, 22, and 28 there were no results for total nitrogen due to a laboratory error. The samples were re-analyzed and the results were not representative.
2. There were no results for temperature on December 15, 25, 26, and 31 due to a technician error.
3. On December 22, there were no results for cBOD5 and BOD5 due to a quality control failure. On December 27, there were no results for cBOD5 and BOD5 due to an instrument error. The BOD5 results exceeded the licence limit on 5 days in the month of December. In December, we were performing annual primary clarifier inspections and maintenance which contributed to the higher than normal values. The BOD5 average result for December met the limit set in the licence.
4. On December 1, the TSS result exceeded the licence limit. We were performing annual primary clarifier inspections and maintenance which contributed to the higher than normal value. We are pleased to report that the TSS average result for December met the limit set in the licence.
5. We are pleased to report that during the month of December 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: 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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