



Water and Waste Department • Service des eaux et des déchets

October 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: SEPTEMBER 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 September 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. From September 9 to 15, there were no 24 hour final effluent samples due to an equipment failure. We also had difficulty obtaining parts for the repair.
2. On September 3 and 4, there were no results for total phosphorus due to a technician error. We are pleased to report that the ammonia results have met the limit set in the licence. The total nitrogen and phosphorus thirty-day rolling averages met the limits set in the licence in September.
3. The TSS results met the limit set in the licence in September.
4. There were no results for cBOD5 on September 2 and 3, due to quality control failures. The cBOD5 results met the limit set in the licence in September.
5. During the month of September the fecal coliform and E. coli results did not meet the limits set in the licence. The cause for the high coliform values is unknown.

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

1. On September 2 and 20, the TSS results were in excess of the 30 mg/L limit in the licence. The high TSS value on September 20 was due to intermittent high flows and bypass events which contributed to the increased turbidity result. The cause for the high value on September 2 is unknown. The TSS average result for September met the limit set in the licence.

2. There were no results for BOD5 and cBOD5 on September 2, 3, and 14 due to quality control failures. The BOD5 results were in excess of the 30 mg/L limit in the licence on 21 days in September. The high BOD5 values on some days were due to intermittent high flows and bypass 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 be due to nitrification occurring. The BOD5 average result for September did not meet the limit set in the licence.
3. On September 3 and 20, 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 September 1, the flow exceeded 380 ML/day at the time of sampling therefore the values from that day were not included in the geometric mean calculation. During the month of September, the geometric mean for the fecal coliform and E. coli results did not meet the limits set in the licence. As mentioned in the previous submission, we suspect a possible sampling issue may be causing the high results. We are continuing to investigate and hope to have this resolved in the near future.

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

1. On September 7 and 22, there were no grab samples collected due to lack of flow during maintenance activities.
2. On September 1, 3, and 20, the TSS results were in excess of the 30 mg/L limit in the licence. The high TSS values on September 1 and 20 were due to intermittent high flows and bypass events which contributed to the increased turbidity results. The cause for the high result on September 3 is unknown. The TSS average result for September met the limit set in the licence.
3. There were no results for BOD5 and cBOD5 on September 2, 3, and 14 due to quality control failures. The BOD5 results were in excess of the 30 mg/L limit in the licence on 5 days in September. The high BOD5 values on some days were due to intermittent high flows and bypass 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 be due to nitrification occurring. The BOD5 average result 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.

NOTE: We would like to advise the Province that we have been experiencing some difficulties in meeting licence limits at the South End plant in the month of October. We suspect the plant performance may have been impacted by a substance that entered the plant and caused a major plant upset. We are investigating and are developing operational strategies to help mitigate the problem.

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
M.A. Shkolny, P.Eng.
W.J. Borlase, P.Eng.

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