

## **2016 Compliance Maintenance Annual Report (CMAR)**

The annual CMAR is a permit required document put together to assist municipalities and the DNR in determining the strengths and weaknesses of the wastewater treatment facility, land application program, finances, and the sanitary collection system and lift stations. This mandatory report has been submitted for many years at the Manitowoc Wastewater Treatment Facility

The WWTF had good treatment throughout the 2016 calendar year. The effluent discharged from the WWTF met all weekly and monthly permit requirements. Also, all toxicity tests came back negative indicating no levels of toxins present in the wastewater to kill the simplest of life forms (minnow, daphnia).

Biosolids land application had 2 Zinc exceedances of High Quality Limit (Sept & Nov) (-10pts) Also, we did not track cumulative loadings of exceedance on each field site (-10pts) A spreadsheet has been developed and will assist with all metal including zinc concentrations and track cumulative loadings for future land application.

Overall the Biosolids Land Application program is in good shape with an abundance of farm land to accommodate rotating crops to haul to various fields to satisfy nutrient management programs for farmers.

Preventive and responsive maintenance in the collection system and lift stations is contributing to minimal repairs and sewer backups, along with a reduction in inflow and infiltration during rainfall events.

Proper management of finances continues to ensure repairs of essential equipment are completed and revenue is adequate to cover costs of running an efficient WWTF.

Overall, the report is good news and shows our commitment to meeting and exceeding effluent permit requirements. The WWTF continues to age and as equipment fails or becomes obsolete we will attempt to repair or replace controls and equipment to maintain plant reliability and permit required removal efficiency.

The CMAR was reviewed and approved by the WWTF Board at their last meeting July 11<sup>th</sup> 2017. The next step is for Public Infrastructure Committee to review and approve the report. The last step in the submittal process is to have a resolution number placed on it so I can e-file the report. The City Common Council needs to accept the report and "place on file" so I can report the resolution number on the last page of the document and validate the report.

If you have any questions do not hesitate to contact me.

Mike Jaeger

Superintendent – Manitowoc WWTF