STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

NOTICE OF FINAL DETERMINATION TO REISSUE

A WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM (WPDES) PERMIT No. WI-0023370-09-0

Permittee: BELOIT CITY, 555 Willowbrook Road, BELOIT, WI, 53511

Facility Where Discharge Occurs: Beloit Wastewater Treatment Facility, 555 Willowbrook Road

Receiving Water and Location: Rock River (Turtle Creek Watershed, LR01, Lower Rock River Basin) in Rock County (SW ¼ of SE ¼ of Section 35, T1N_R12E - Lat: 42.4964 – Lon: -89.0415).

Brief Facility Description: The City of Beloit operates a wastewater treatment facility (WWTF) providing secondary treatment to a combination of domestic, commercial and industrial wastewater. The WWTF serves a total population of approximately 36,100 in the City of Beloit and portions of several small surrounding communities. Treatment units include preliminary influent screening press, grit removal, primary settling, anoxic selector, advanced activated sludge with ammonia and biological phosphorus removal, final clarification, and seasonal effluent chlorine (sodium hypochlorite) contact disinfection and dechlorination (sodium bisulfite). Biosolids are thickened and/or dewatered using a gravity belt thickener and belt filter press, anaerobically digested and stored prior to land application or landfilling.

Beloit administers a local industrial pretreatment program approved by the Department on October 14, 1983. The collection system for the City of Beloit is a 100% separate sewer system with no constructed overflow points. The City is also covered under a "no exposure certification" for storm water. The Department has found the City to be in substantial compliance with its current permit.

Permit Drafter's Name, Address and Phone: Phillip Spranger, DNR, SCR Headquarters, 3911 Fish Hatchery Rd, Fitchburg, WI, 53711, (608) 273-5969

Basin Engineer's Name, Address, and Phone: Amy Garbe, 3911 Fish Hatchery Road, Fitchburg, WI 53711, (608) 275-3258

Date Permit Signed/Issued:
Date of Effectiveness: July 1, 2015
Date of Expiration: June 30, 2020

Following the public notice period the Department has made a final determination to reissue the WPDES permit for the above-named permittee for this existing discharge. The permit application information from the WPDES permit file, comments received on the proposed permit and applicable Wis. Adm. Codes were used as a basis for this final determination.

The Department has the authority to issue, modify, suspend, or revoke WPDES permits and to establish effluent limitations and permit conditions under ch. 283, Stats.

Following is a summary of significant comments and any significant changes which have been made in the terms and conditions set forth in the draft permit:

<u>Comments Received from the Applicant, Individuals or Groups and Any Permit Changes as Applicable</u>
Harry Mathos, Director of Water Resources for the City of Beloit, submitted the following comment on March 18, 2015 during the public comment period.

Beloit Comment #1: Page 5 of the Permit lists our daily maximum ammonia limit as 17 mg/L and requires a daily sample frequency. Using the last five years of data we calculated our 1-day P99 for ammonia to be 6 mg/L. Based on this, there does not appear to be the potential to exceed the 17 mg/L limit and we ask that it be removed from the permit. If this is not possible, we request the sample frequency be reduced to quarterly, similar to the sample frequency for parameters that are "monitor only" such as other nitrogen series and metals parameters.

> **WDNR's Response to Comment #1:** The Department has reviewed Ammonia data that has been reported during the previous permit term. Using detected values, the 1-day P99 value was calculated at 3.0 mg/L. Because there is no reasonable potential the effluent will exceed the daily maximum limit, the Department will reduce the sampling frequency. However, in 2013 there were Ammonia violations and for a facility of this size, the sampling frequency should be more than quarterly. In response to this comment, the Department will reduce the Ammonia sampling frequency from daily to 3x/week.

<u>Comments Received from EPA or Other Government Agencies and Any Permit Changes as Applicable</u>
The Beloit permit was selected by EPA for detailed review during Federal Fiscal Year 2015. Department staff held a conference call with EPA permit reviewer Michael Davis on March 10, 2015 to discuss EPA comments and questions

regarding Beloit's proposed permit, fact sheet, WQBEL memo and permit application. Department staff resolved most of EPA's comments and questions during the conference call. The Department also made numerous small narrative changes to the fact sheet and permit for clarification purposes in response to EPA's comments.

WDNR made the following changes to subsection 3.2.1 of Beloit's public noticed permit to clarify one table note and to correct the "Sample Type" for several parameters:

- The permit table note for $CBOD_5$ with a limit type of Monthly Avg was changed from "See standard requirement 6.4.6 below for percent removal requirements for CBOD and Suspended Solids" to "See subsection 6.4.7 in permit for percent removal requirements for CBOD and Suspended Solids."
- The sample type for Total Suspended Solids mass limits in units of lbs/day were changed from "24-Hr Flow Prop Comp" to "Calculated".
- The Sample Type for the Total Phosphorus concentration limit in units of mg/L was changed from "24-Hr Comp" to "24-Hr Flow Prop Comp".
- The Sample Type for Total Phosphorus mass monitoring in units of lbs/day was changed from "24-Hr Comp" to "Calculated".

As provided by s. 283.63, Stats., and ch. 203, Wis. Adm. Code, persons desiring further adjudicative review of this final determination may request a public adjudicatory hearing. A request shall be made by filing a verified petition for review with the Secretary of the Department of Natural Resources within 60 days of the date the permit was signed (see permit signature date above). Further information regarding the conduct and nature of public adjudicatory hearings may be found by reviewing ch. NR 203, Wis. Adm. Code, s. 283.63 Stats., and other applicable law, including s. 227.42, Stats.

Information on file for this permit action may be inspected and copied at either the above named permit drafter's address or the above named basin engineer's address, Monday through Friday (except holidays), between 9:00 a.m. and 3:30 p.m. Information on this permit action may also be obtained by calling the permit drafter at (608) 273-5969 or by writing to the Department. Reasonable costs (usually 20 cents per page) will be charged for copies of information in the file other than the public notice and fact sheet. Pursuant to the Americans with Disabilities Act, reasonable accommodation, including the provision of informational material in an alternative format, will be made to qualified individuals upon request.