

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PUBLIC NOTICE OF INTENT TO REISSUE A WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM (WPDES) PERMIT No. WI-0020141-10-0

Permittee: City of Kiel, PO Box 98, Kiel, WI, 53042

Facility Where Discharge Occurs: Kiel Wastewater Treatment Facility, 100 E Park Ave, Kiel, Wisconsin

Receiving Water and Location: Sheboygan River (Water Body Identification Code number 50700) at Rockville Flowage in the Sheboygan River Watershed (SH03) of the Sheboygan River Drainage Basin in Manitowoc County and groundwater via land application in Calumet and Manitowoc Counties.

Brief Facility Description and Summary of Proposed Changes: The City of Kiel owns and operates the Kiel Wastewater Treatment Facility that treats residential and commercial domestic wastewater, industrial wastewaters, and hauled waste from the hauled waste receiving stations. The wastewater treatment facility consists of fine screening, grit removal, primary clarification, aeration basins, secondary clarifications, tertiary filtration, chlorine disinfection, and post aeration. The final effluent flows by gravity through a submerged outfall structure to the Sheboygan River via Outfall 001. The annual average design flow of the wastewater treatment facility is 1.43 million gallons per day. Class A, exceptional quality (EQ) sludge is generated from the wastewater treatment facility. The sludge treatment includes anaerobic digestors, aerated sludge holding tank, screw presses, dryer, and sludge storage structure. The Class A EQ sludge is either immediately land applied or distributed to the public via Outfall 005 or if stored for a certain length of time retested for Class A pathogen requirements either land applied or distributed to the public via Outfall 006. The permittee has the ability to use an existing belt press to thicken the sludge prior to the dryer in case the screw press is not available. Additionally, the permittee has the ability to collect cake sludge from the belt filter press and serves as emergency backup in case Class A sludge cannot be produced. The pressed cake sludge can be land applied as Class B sludge on department approved sites via Outfall 007. The facility recently went through a large facility upgrade during the previous permit term. These facility upgrades included: new aeration basins, new blowers and aerators for existing aeration basins, two new secondary clarifiers, new mechanisms for existing clarifiers, replacing the existing sand filters with disk filters for phosphorus removal, new sludge pumps, new sludge screw presses, and sludge Class A dryer replacing the Class A sludge pasteurization process.

The major changes from the previous permit include the addition of Sampling Point 105 for tracking bypasses of the tertiary filtration system prior to disinfection; BOD concentration limits have been lowered for August and September; total maximum daily load derived TSS mass effluent limitations and monitoring has been added; the daily minimum oxygen limit has been increased to 7.0 mg/L; fecal coliform monitoring and limits have been replaced with Escherichia coli (E. coli) monitoring and limits; total residual chlorine limits have been lowered; total maximum daily load derived total phosphorus mass effluent limitations and monitoring has been added; bimonthly effluent PFOA and PFOS monitoring has been added; a chronic whole effluent toxicity monthly average limit of 1.1 TU_c has been added; Outfall 004 has been removed as the facility longer uses the pasteurization process to produce Class A sludge; Outfall 005 was added to track the compliance and distribution of Class A, exceptional quality sludge produced from the new sludge dryer process; Outfall 006 was added to track the compliance of retesting for Class A pathogen control requirements if land application or distribution will occur at a later time; Outfall 007 was added as an emergency in case producing Class A sludge is not available; and annual PFAS monitoring has been added for each sludge outfall.

For specific information and explanation about the proposed conditions of the permit and proposed changes from the previous permit, please see the permit fact sheet.

Permit Drafter's and Basin Engineer's Name, Address, Phone and Email: Trevor Moen, 625 E County Road Y, Suite 700, Oshkosh, WI 54901, (920) 410-5192, Trevor.Moen@wisconsin.gov

The department has tentatively decided that the above-specified WPDES permit should be reissued.

Limitations and conditions which the department believes adequately protect the receiving water are included in the proposed permit. Land application of waste shall be done in accordance with permit conditions and applicable codes. All land application sites shall be approved prior to their use. To receive a list of approved sites, or to be notified of potential approvals, contact the above-named basin engineer.

Dissipative Cooling: The department may account for dissipative cooling of the permittee's treated domestic sewage effluent in determining the need for sub-lethal temperature limits pursuant to s. NR 106.59, Wis. Adm. Code. Based on the department's evaluation it has been determined that sub-lethal effluent limits for temperature are not necessary because the permittee's effluent thermal load is adequately dissipated. Comments on this determination are requested.

Persons wishing to comment on or object to the proposed permit action, or to request a public hearing, may write to the Department of Natural Resources at the above-named permit drafter's address. All comments or suggestions received no later than 30 days after the publication date of this public notice will be considered along with other

information on file in making a final decision regarding the permit. Anyone providing comments in response to this public notice will receive a notification of the department's final decision when the permit is issued. Where designated as a reviewable surface water discharge permit, the U.S. Environmental Protection Agency is allowed up to 90 days to submit comments or objections regarding this permit determination. If no comments are received on the proposed permit from anyone, including U.S. EPA, the permit will be issued as proposed.

The department may schedule a public informational hearing if requested by any person and shall schedule a public informational hearing if a petition requesting a hearing is received from 5 or more persons or if response to this notice indicates significant public interest pursuant to s. 283.49, Wis. Stats. Requests for a public informational hearing shall state the following: the name and address of the person(s) requesting the hearing; the interest in the proposed permit of the person(s) requesting the hearing; the reasons for the request; and the issues proposed to be considered at the hearing.

Information on file for this permit action, including the draft permit, fact sheet and permit application, may be inspected and copied at either the above-named permit drafter's office or the above-named basin engineer's office, Monday through Friday (except holidays), between 9:00 a.m. and 3:30 p.m. Please call the permit drafter or basin engineer for directions to their office location, if necessary. Information on this permit action may also be obtained by calling the permit drafter at (920) 410-5192 or by writing to the department. Reasonable costs (15 cents per page for copies and 7 cents per page for scanning) will be charged for information in the file other than the public notice, permit and fact sheet. Permit information is also available on the internet at: <http://dnr.wi.gov/topic/wastewater/PublicNotices.html>. 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.

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