

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PUBLIC NOTICE OF INTENT TO REISSUE A WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM (WPDES) PERMIT No.WI-0038296-09-0

Permittee: UW MADISON CHARTER STREET HEATING PLANT, 117 N Charter St, MADISON, WI, 53715

Facility Where Discharge Occurs: UW Madison Charter Street Heating Plant, 117 N CHARTER STREET

Receiving Water And Location: Lake Monona via City of Madison storm sewers at the northwest bank of Monona Bay in Brittingham Park (Yahara River and Lake Monona Watershed, LR08 – Lower Rock River Basin) in Dane County

Brief Facility Description and Summary of Proposed Changes: The Charter Street Heating Plant (CSHP) is located between the intersections of N Charter St, W Dayton St, N Mills St, and Spring St in Madison, Wisconsin. The plant produces electricity, chilled water for cooling, and steam used for heating for the University of Wisconsin-Madison. The original plant consisted of three coal-fired boilers constructed in the late 1950's. Between the early 1960's and the mid 1990's an additional coal-fired boiler, a natural gas boiler, and the current steam turbine generator were added to the facility. Then, between 2011 and 2013 the coal-fired boilers were replaced by gas-fired boilers. CSHP can currently produce 1,200,000 pounds of steam per hour, 26,000 tons of chilled water, 7,080 standard cubic feet of compressed air per minute, and 9.8 megawatts of electricity per hour. The plant operates 24 hours a day 7 days a week year-round.

Intake water is withdrawn from Lake Mendota for use by CSHP as well as the Walnut Street Heating Plant (WSHP) and the West Campus Cogeneration Facility (WCCF) operated by MG&E. CSHP uses intake water for boiler makeup water, cooling tower makeup water, non-contact cooling water, and for additional cooling of the non-contact cooling water discharge in April and October. WSHP uses intake water for cooling tower makeup water and non-contact cooling water, and the WCCF uses intake water for cooling tower makeup water. The cooling water intake structure (CWIS) is located north of the Water Science and Engineering Laboratory in an area near multiple piers and a sailboat mooring field. The CWIS consists of three upturned pipes with 31-inch diameter cylindrical screens attached to the ends. The total design intake flow (DIF) is 10.61 million gallons per day (MGD) and the actual intake flow (AIF) is 1.27 MGD. CSHP is able to use city water as a backup water source.

CSHP Outfall 001 is an optional outfall, for emergency backup use. From 2014 to 2022, Outfall 001 has not been used and no flow has been observed. Outfall 004 and Outfall 001 combine on facility property west of N Mills St, and discharge to the Monona Bay via the Municipal Separate Storm Sewer System outfall owned by the city of Madison.

Permit Drafter's Name, Address, Phone and Email: Jennifer Jerich, DNR, N7725 Hwy 28, Horicon, WI, 53032, (920) 450-4078, Jennifer.Jerich@wisconsin.gov

Basin Engineer's Name, Address, Phone and Email: Kenzie Ostien, 3911 Fish Hatchery Road, Fitchburg, WI 53711, (608) 516-6487, kenzie.ostien@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.

Cooling Water Intake Structure: The proposed permit contains a determination regarding use of the best technologies available for minimizing impingement mortality and entrainment at the permittee's cooling water intake structure, subject to ch. NR 111, Wis. Adm. Code, and section 316(b) of the federal Clean Water Act.

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) 450-4078 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.

NAME OF PUBLISHING NEWSPAPER: Wisconsin State Journal

ADDRESS OF PUBLISHING NEWSPAPER: PO Box 8056, Madison, WI 53708-8056

Date Notice Issued: Thursday, December 19, 2024