

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PUBLIC NOTICE OF INTENT TO REISSUE A WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM (WPDES) PERMIT No.WI-0031232-10-0

Permittee: HEART OF THE VALLEY METRO SEW DIST, 801 Thilmany Rd, Kaukauna, WI, 54130-1642

Facility Where Discharge Occurs: Heart of the Valley Metro Sewerage District, 801 Thilmany Road

Receiving Water And Location: Fox River in Fox River/Appleton of Fox River (lower) in Outagamie County

Brief Facility Description and Summary of Proposed Changes: The Heart of the Valley Metropolitan Sewerage District (HOV) Wastewater Treatment Facility (WWTF) provides treatment of domestic, commercial and industrial wastewater from the municipalities of Combined Locks, Kaukauna, Kimberly, Little Chute and Darboy. The sanitary sewer collection system is separate from the storm sewer system in the HOV's WWTF's service area.

All influent raw wastewater arrives at the facility through "Special Manhole-#1", which contains a motorized weir gate. Influent flows in excess of 25 MGD are diverted around the "Normal Flow Headworks" and into the "Peak Flow Headworks", which has a 35 MGD design. The Normal Headworks contains dual, automatic mechanical bar screens, and the Peak Headworks has a single bar screen. Both Headworks are equipped with 36" Parshall flumes and all influent flow measurement, sampling and screening is conducted at the two locations. Influent samples are collected at the normal flow headworks location.

Flows exiting the Normal Headworks and Peak Headworks are pumped separately to a splitter box, which feeds dual, 30 MGD Vortex-grit removal systems. All grit is processed through a lone, Coanda grit washer, and all grit removal effluent flows to the influent channel of the Actiflo Ballasted Sedimentation System. Two Actiflo treatment trains exist which include coagulation, injection, maturation and settling. Ferric sulfate, polymer and ballast-sand are adding to the Actiflo influent. These addition rates are increased if influent flows are greater than 15.6 MGD. Hydro-cyclones separate the ballast-sand and primary sludge from the solids collected by the Actiflo system, and the sand is reused. The primary sludge is discharged to the Gravity Thickener tank.

An Actiflo effluent flow of 26.4 MGD is allowed to enter the Biostyr Biological Aerated Filter system (BAF). Flows in excess of 26.4 MGD are automatically diverted to the Peak Flow Chlorine Contact Tanks. The BAF system is an up-flow biological aerated filter technology which removes suspended solids, BOD and Ammonia nitrogen, with eight cells available. Under normal flow the BAF cells are backwashed every approximately every 30 hours. Flow to the secondary treatment (BAF) system is measured by a magnetic meter.

BAF effluent flows by gravity to the Normal Flow Chlorine Contact Tank. Sodium-hypochlorite disinfectant is introduced just ahead of both the Normal Flow and Peak Flow Contact Tanks, and sodium-bisulfite is added downstream of each tank to destroy residual chlorine. Effluent flow from the Normal Flow Contact Tank is measured by a 7 foot wide by 9 inch tall, rectangular weir. Peak Flow Contact Tank discharge and emergency bypass flows are measured by a Flow Velocity meter located at manhole #3. All effluent is combined and discharged through the 48-inch outfall 001, to a backwater segment of the Fox River, which is just downstream from the Kaukauna Govt. Lock #5.

All HOV biosolids removal, treatment and disposal includes: Actiflo scum and primary sludge settling, gravity thickening of primary sludge, mechanical Dissolved Air Floatation Thickening (DAFT) of Primary and BAF solids, Auto-Thermal Thermophilic Aerobic Digestion (ATAD) of thickened sludge and Post-ATAD nitrification.

The Class A liquid biosolids are stored onsite in two fiberglass coated steel tank (2.35 MG or 1.6 MG). A contractor performs the seasonal hauling and land application injection of the stabilized liquid on department approved farm fields. Class A liquid biosolids are not currently distributed.

Permit Drafter's Name, Address, Phone and Email: Jennifer Jerich, DNR, Mailing address Lisa Creegan 3911 Fish Hatchery Road, Fitchburg, WI 53711, (920) 450-4078, Jennifer.Jerich@wisconsin.gov

Basin Engineer's Name, Address, Phone and Email: Barti Oumarou, 625 E County Road Y, Suite 700, Oshkosh, WI 54901, (920) 424-4013, Barti.Oumarou@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.

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: Post Crescent

ADDRESS OF PUBLISHING NEWSPAPER: 306 W Washington St., Appleton, WI 54911-4745

Date Notice Issued: October 24, 2025