

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES
PUBLIC NOTICE OF INTENT TO REISSUE A WISCONSIN POLLUTANT DISCHARGE ELIMINATION
SYSTEM (WPDES) PERMIT No. WI-0001040-08-0

Permittee: Tyco Fire Protection Products LP, One Stanton Street, Marinette, WI 54143

Facility Where Discharge Occurs: Tyco Fire Protection Products LP, One Stanton Street

Receiving Water and Location: Menominee River in Marinette, Wisconsin

Brief Facility Description: Tyco Fire Protection Products (FPP) manufactures fire extinguishers and fire suppression packets. Metal finishing process wastewater (0.047 MGD) is treated at internal sample point 101 and combined in the industrial sewer with noncontact cooling water (0.059 MGD), boiler house wastewater (0.022 MGD), groundwater infiltration (0.066 MGD), and roof drain runoff (0.08 MGD) prior to discharging to the Menominee River through Outfall 001. The average discharge flows through outfall 001 have been reduced about 44% over the last several years due to water saving projects in the facility and lining the industrial sewers to reduce groundwater inflow. Limits and monitoring requirements for the metal finishing wastewater treatment system (in-plant sample point 101) and for the combined discharge through Outfall 001 are included in Tyco's WPDES permit.

Tyco's processes include metal turning of CO₂ cylinders, metal finishing of fabricated steel shells and cartridges, and machining of aluminum parts for the fire extinguishers. Metal finishing processes include acid and alkaline cleaning, deep draw phosphatizing, and spray cleaning. Counter current rinsing is used throughout the metal finishing process. Tyco's metal finishing wastewater treatment system (monitored at sample point 101) includes lime precipitation/ coagulation, clarification with a micro-filter membrane and sludge dewatering in a filter press. The micro filter permeate is de-chlorinated with sodium meta-bisulfite and then passed through a reverse osmosis (RO) unit to provide clear water permeate for reuse in the plant. The reverse osmosis concentrate is discharged via sample point 101.

Previous manufacture of arsenical herbicides by Ansul Corp. resulted in arsenic contamination of groundwater in the plant area where an arsenic salt storage pile was located. Infiltration of groundwater into the industrial sewer discharging through Outfall 001 has resulted in periodic elevated arsenic concentrations in the effluent which has been addressed by locating and sealing leaks to reduce infiltration. Arsenic remedial actions at the plant site have been implemented through agreements between U.S. EPA, the Department and Tyco under RCRA. Limitations for discharge of treated remedial action groundwater (with reverse osmosis treatment) are specified under outfall 003. Dredging of arsenic contaminated sediment from the river is continuing in the area of the 8th Street Slip and the turning basin. The wastewater discharges from the river dredging project are regulated under a separate General WPDES permit.

Permit Drafter: Jeffrey Brauer, DNR, 101 S. Webster St., PO Box 7921, Madison, WI 53707-7921, (608) 267-7643, jeff.brauer@wisconsin.gov

Basin Engineer: Bruce Oman, DNR 101 N Ogden Road Ste. A, Peshtigo, WI 54157-1734, (715) 582-5012, Bruce.Oman@Wisconsin.gov

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

Proposed Mercury Variance: The Department has determined that a water quality-based effluent limitation (WQBEL) of **1.3 ng/L** for mercury is needed to protect wildlife and human health in the above-named receiving water. The permittee has submitted an application for an alternative mercury effluent limitation (AMEL). The application included a pollutant minimization program plan for mercury as required under s. NR 106.145(8), Wis. Adm. Code. The Department concludes that the permittee has qualified for a variance based on the information submitted, information on file and the findings provided in s. NR 106.145(1), Wis. Adm. Code. The Department and the permittee have mutually agreed upon a daily maximum alternative mercury limit of **15 ng/L**, continued influent and effluent mercury monitoring, and a required Pollutant Minimization Plan. The Department proposes to grant the AMEL, which represents a variance to the water quality standard used to derive the WQBEL, as provided for under s. NR 106.145(6), Wis. Adm. Code. The designated use of the receiving water will not change as a result of the variance.

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 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, 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 (if required), and permit application, may be inspected and copied at the permit drafter's or 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 (608) 267-7643 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. 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.

PUBLISHING NEWSPAPER: EagleHerald, PO Box 77, Marinette, WI 54143-0077
Date Notice Issued: November 7, 2013