

January 30, 2017

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FEB - 1 2017

Ms. Julia Stephenson
Wisconsin Department of Natural Resources
3550 Mormon Coulee Road
La Crosse, WI 54601

WT/3 - WY/3 - OGB/3

Subject: City of Tomah
Adaptive Management Plan Submittal

Dear Ms. Stephenson:

On behalf of the City of Tomah, please find enclosed one copy of an Adaptive Management Plan following the 2012 WPDES permit phosphorus compliance schedule. This plan outlines the method of how the City will work to achieve adaptive management in the Lemonweir River, which is the receiving water for the facility. This plan covers the first 5-year permit term, and will be supplemented as necessary in the future.

We would be more than happy to meet with you to discuss the plan and attempt to answer any questions you may have.

If you have any questions, please feel free to call me at (608) 273-3350.

Very truly yours,
TOWN & COUNTRY ENGINEERING, INC.

Gregory J. Droessler, P.E.
Vice President

cc: ✓ Ms. Amanda Minks, Wisconsin Department of Natural Resources, (101 South Webster Street, Madison WI, 53703) (2 copies of report)

Mr. Kirk Arity, City of Tomah (819 Superior Avenue, Tomah WI 54660)
(2 copies of report)

Mr. Bob Micheel, Monroe County Land Conservation Department (820 Industrial Drive, Suite 3, Sparta, WI 54565)

GJD

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State of Wisconsin
Department of Natural Resources
Bureau of Watershed Management
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

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Watershed Adaptive Management Request

Form 3200-139 (R 01/12)

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Notice: Pursuant to s. NR 217.18, Wis. Adm. Code, this form must be completed and submitted to the Department at the time of the reissuance of an existing WPDES (Wisconsin pollutant discharge elimination system) permit to request adaptive management for phosphorus water quality based effluent limits (WQBEL). Failure to provide all requested information may result in denial of your request. Personal information collected will be used for administrative purposes and may be provided to requestors to the extent required by Wisconsin Open Records law [ss. 19.31-19.39, Wis. Stats.].

Type of Request: <input checked="" type="radio"/> This is the formal adaptive management request as required in s. NR 217.18(2) <input type="radio"/> This is a preliminary adaptive management request (to be submitted as part of facility planning.)

Facility and Permit Information

Facility Name City of Tomah WWTF		WPDES Permit No. WI- 0 0 2 1 3 1 1 8	
Facility Address 520 Industrial Avenue	City Tomah	State WI	ZIP Code 54660
Receiving Water South Fork of the Lemonweir River (Little Lemonweir River)			

Owner Contact Information

Last Name Arity	First Kirk	MI	Phone No. (incl. area code) (608) 374-7453
Street Address 819 Superior Avenue			FAX Number (608) 374-7444
City Tomah	State WI	ZIP Code 54660	E-mail address karity@tomahonline.com

Facility Information

Required for AM Request	Wis. Administrative code Reference	Conclusion	Evidence/Source of information (attach as needed)
1. NPS contribute at least 50% of total P contribution	s. NR 217.18(2)(b)	<input checked="" type="radio"/> NPS contributes at least 50% <input type="radio"/> NPS DOES NOT contribute at least 50%	
2. WQBEL Requires Filtration	s. NR 217.18(2)(c)	<input checked="" type="radio"/> Filtration required <input type="radio"/> Filtration NOT required	
3. AM Plan	s. NR 217.18(2)(d)	<input checked="" type="radio"/> Plan is Included - Page 3 <input type="radio"/> Plan is NOT Included <i>For a preliminary adaptive management request, AM plan not required</i>	

Facility Operation and Performance

- Current P removal capability** – If the facility is currently required by a WPDES permit to monitor effluent phosphorus (P) provide a summary of the influent and effluent annual average P concentrations for each of the past three (3) years. If permit required P data is not available, the applicant should provide any other P data that may be applicable and available. If no data is available, the Department may estimate the P effluent concentration by based on data from other similar facilities
 2013 Average Influent / Effluent Phosphorus Concentration= 5.47 / 0.30 mg/L
 2014 Average Influent / Effluent Phosphorus Concentration= 6.29 / 0.24 mg/L
 2015 Average Influent / Effluent Phosphorus Concentration= 7.30 / 0.33 mg/L

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2. **Facility Operation** - Provide a summary description of overall facility operation. If not a continuously discharging facility, describe storage procedures and the time periods when effluent discharge occurs
 The WWTF, constructed in 1998, includes preliminary treatment (influent screening, flow metering, and sampling), an activated sludge oxidation ditch with enhanced biological phosphorus removal, final clarification, UV disinfection, reoxygenation, and effluent flow metering and sampling. Waste activated sludge (WAS) is fed to a belt filter press for dewatering, and treated through lime stabilization to produce Class A exceptional quality biosolids. Filtrate from the belt filter press is equalized prior to pumping to the head of the WWTF. Refer to AM Plan Section 1.2.
3. **Previous Studies** - Reference or attach any facility planning or evaluation study that evaluated facility performance capabilities (Note - Only include studies that are recent, within 5 years, or otherwise applicable for the evaluation of the existing facility and current conditions).
 No facilities planning or evaluation study in the last 5 years.

Adaptive Management Plan (s. NR 217.18(d))9.25

This section should summarize the Adaptive Management Plan for internal and external review. A complete Adaptive Management Plan should be attached. Note: If this is a preliminary adaptive management request, this section is not required.

Watershed	Percent Contribution of Applicant Discharge
Little Lemonweir River	2%

Action Area (include map)

The initial action area is located within HUC 12# 070700031501. Refer to AM Plan Section 2.1.

Watershed Characteristics and Timeline Justification

The watershed has a drainage area of 48.5 square miles. Land use in the watershed is dominated by agricultural (41% of total), forested lands (23% of total), and pasture/hay land (14% of total) Refer to AM Plan Section 5.10 for implementation schedule.

Key Proposed Actions

Barnyard improvement and conversion of pasture to a grass buffer initially. Subsequent projects will likely include streambank restoration and nutrient management. Refer to AM Plan Section 4.2.

Key Goals and Measures for Determining Effectiveness

For the first permit term, the City plans to target at least 497 pounds of phosphorus per year. Load reductions from each management measure will be modeled using SNAP-Plus, and other modeling software as necessary. Management measures will be verified once per permit term after initial establishment has been verified. Refer to AM Plan Section 5.

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Partner(s)

Monroe County Land Conservation Department. Refer to AM Plan Section 4.1.

Funding Sources

The City of Tomah will assume financial responsibility for adaptive management, but additional funding sources will be explored. Refer to AM Plan Section 6.2.

Adaptive Management Request and Certification

Based on the information provided, I am requesting the Watershed Adaptive Management option to achieve compliance with phosphorus water quality standards in accordance with s. NR 217.19, Wis. Adm. Code.

I certify that the information provided with this request is true, accurate and complete to the best of my knowledge.


Print or type name of person submitting request*

Kirk Arity

Title

Director of Public Works

Signature of Official



Date Signed

1/24/19