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:
- ☐ This is the formal adaptive management request as required in s. NR 217.18(2)
- ☐ This is a preliminary adaptive management request (to be submitted as part of facility planning.)

Facility and Permit Information

Facility Name: Dane Iowa Wastewater Commission Wastewater Treatment Facility

WPDES Permit No: WI-010419181116

Facility Address: 5745 Mahocker Road
City: Mazomanie
State: WI
ZIP Code: 53560

Receiving Water
Black Earth Creek in Black Earth Creek Watershed (LW17) of the Lower Wisconsin River Basin

Owner Contact Information

Last Name: Sroda
First Name: Brian
MI: 
Phone No. (incl. area code): (608) 795-0024
FAX Number: (608) 795-0051

Street Address: 5745 Mahocker Road
City: Mazomanie
State: WI
ZIP Code: 53560
E-mail address: bsroda@centurytel.net

Facility Information

<table>
<thead>
<tr>
<th>Required for AM Request</th>
<th>Wis. Administrative code Reference</th>
<th>Conclusion</th>
<th>Evidence/Source of Information (attach as needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. NPS contribute at least 50% of total P contribution</td>
<td>s. NR 217.18(2)(d)</td>
<td>☐ NPS contributes at least 50%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ NPS DOES NOT contribute at least 50%</td>
<td></td>
</tr>
<tr>
<td>2. WQBEL Requires Filtration</td>
<td>s. NR 217.18(2)(c)</td>
<td>☐ Filtration required</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Filtration NOT required</td>
<td></td>
</tr>
<tr>
<td>3. AM Plan</td>
<td>s. NR 217.18(2)(d)</td>
<td>☐ Plan is Included - Page 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>☐ Plan is NOT Included For a preliminary adaptive management request, AM plan not required</td>
<td></td>
</tr>
</tbody>
</table>

Facility Operation and Performance

1. 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 Phosphorus Concentration= 6.78 mg/L
2014 Average Influent Phosphorus Concentration= 6.03 mg/L
2015 Average Influent Phosphorus Concentration= 6.97 mg/L

2013 Average Effluent Phosphorus Concentration= 0.54 mg/L
2014 Average Effluent Phosphorus Concentration= 0.27 mg/L
2015 Average Effluent Phosphorus Concentration= 0.72 mg/L
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 combined with hauled sludge from Cross Plains in sludge holding tanks, 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.

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

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.

<table>
<thead>
<tr>
<th>Watershed</th>
<th>Percent Contribution of Applicant Discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Earth Creek Watershed</td>
<td>4.3%</td>
</tr>
</tbody>
</table>

Action Area (include map)

The initial action area is located within HUC 12# 070700050504, but may expand outside this HUC #12 in the future to target additional phosphorus reductions. Refer to AM Plan Section 2.1.

**Watershed Characteristics and Timeline Justification**

The BEC watershed has a drainage area of 103 square miles with 75 total stream miles. Land use is the watershed is dominated by agricultural (43% of total) and forested lands (37% of total.) Refer to AM Plan Section 5.10 for implementation schedule.

**Key Proposed Actions**

Stream bank restoration and harvestable buffer. Refer to AM Plan Section 4.2.

**Key Goals and Measures for Determining Effectiveness**

For the first permit term, the Dane Iowa Commission plans to target at least 81 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.
Partner(s)
Dane County Land and Water Resources Department. Refer to AM Plan Section 4.1.

Funding Sources
The Dane Iowa Wastewater Commission will assume sole 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.

<table>
<thead>
<tr>
<th>Print or type name of person submitting request*</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Sroda</td>
<td>WWTP Superintendent</td>
</tr>
</tbody>
</table>

Signature of Official: [Signature]

Date Signed: 1/18/17