



Minnesota Pollution Control Agency

STATE OF MINNESOTA

Minnesota Pollution Control Agency

MUNICIPAL DIVISION

PUBLIC NOTICE OF INTENT TO MAJOR MODIFY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)/ STATE DISPOSAL SYSTEM (SDS) PERMIT MN0020168

Public Comment Period Begins: December 26, 2012
Public Comment Period Ends: January 25, 2013

Current Permit Issued: June 29, 2011
Current Permit Expiration Date: May 31, 2016

Name and Address of Permittee:

City of Paynesville
221 Washburne Avenue
Paynesville, MN 56362

Facility Name and Location:

Paynesville Wastewater Treatment Facility
18578 County Road 33
T122N, R32W, Sections 3 and 10
Paynesville, Stearns County, Minnesota

Receiving Water: North Fork of the Crow River (Class 2B, 3C, 4A, 4B, 5, 6 Water)

Description of Permitted Facility:

The Paynesville Wastewater Treatment Facility (Facility) is located in the NE 1/4 of SW 1/4 of Section 3, Township 122 North, Range 32 West, Paynesville Township, Stearns County, Minnesota. This is a Class B Facility.

Major components of the Facility include:

Influent Lift Station (proposed)
Influent Lift Station (existing to be eliminated)
1 Bar Screen – manual (proposed)
1 Bar Screen – mechanical (proposed)
1 Bar Screen – mechanical (existing to be eliminated)
1 Grit Removal System (proposed)
1 Grit Removal System (existing to be eliminated)
Influent Flow Meter (proposed 9" Parshall Flume)
1 Aerated Pond - more than two hours detention time (existing, proposed rehab)
3 Primary Stabilization Ponds (existing)

- 2 Intermediate Stabilization Ponds (existing)
- 2 Secondary Stabilization Ponds (existing)
- 1 Flow Equalization Basin (existing retention basin prior to micro-screen)
- 1 Effluent Screen (existing micro-screen)
- Effluent Pumping (existing, proposed rehab)
- Effluent Flow Meter (existing magnetic flow meter for spray sites)
- 15 Spray Irrigation Sites – agricultural (existing)
- Land Application (proposed every 10-15 years)
- Polishing Pond without aeration (existing retention basin)

The application and plans indicate that the existing treatment system consists of a main lift station, a mechanical bar screen, a grit chamber, an aerated pond, a 7-cell stabilization pond system (3 primary cells, 2 intermediate cells, and 2 secondary cells), a retention basin, a micro-screen, effluent pump station, effluent magnetic flow meter, 15 spray irrigation sites, a groundwater monitoring well network consisting of 6 monitoring wells, a drain tile system under spray sites 2, 3, 6, 11, and 12, and a retention basin for the drain tile effluent and stormwater.

The Facility is designed to treat an average wet weather flow (AWWF) of 887,000 gallons per day (gpd) with a five-day carbonaceous biochemical oxygen demand (CBOD₅) concentration of 676 milligrams per Liter (mg/L) and a total suspended solids (TSS) concentration of 300 mg/L. The pond system consists of: one 1.65-acre aerated pond; 3 primary ponds measuring 36-acres, 36-acres, and 40-acres; 2 intermediate cells measuring 7.25-acres each; and 2 secondary cells measuring 14-acres and 24-acres (all pond cells are measured at the 3-foot depth level). The pond system provides a total detention time of 245 days at design flow. The retention basin is approximately 9-acres in size. The existing spray irrigation sites total 1,160.7-acres.

The outfall structure from the retention basin is capable of discharging (SD001) to the North Fork of the Crow River (Class 2B, 3C, 4A, 4B, 5, 6 Water). The retention basin receives surface and groundwater drainage from a drain tile system under spray sites 2, 3, 6, 11, and 12. The retention basin also receives water from a ditch along the northwest perimeter of the north primary pond which drains the area around the ponds and approximately 400-500 acres south of the railroad tracks. There is not a discharge from the stabilization pond system into the retention basin or into surface waters.

A drain tile was installed around the aerated cell which discharges (GW007) approximately 600 feet overland to the North Fork of the Crow River.

The Permittee will be constructing a new main lift station, including: screening, grit removal system, dry pit centrifugal pumps, SCADA system and stand-by power. The existing aerated pond system and blower building will be rehabilitated, including: multistage centrifugal blowers, floating aeration system, air piping, new electrical gear, SCADA system and stand-by power. The existing irrigation lift station will be rehabilitated, including: vertical turbine pumps, piping, new electrical gear and SCADA system.

The proposed upgraded Facility will be designed to treat an AWWF (30-day) of 1.174 million gallons per day (MGD), a peak hourly wet weather flow of 1.775 MGD, and a peak instantaneous wet weather flow of 2.005 MGD with a CBOD₅ concentration of 602 mg/L and a TSS concentration of 324 mg/L. The average design flow (210-day) of 887,000 gpd is used for storage capacity requirements for operation of the spray irrigation system. The pond system provides a total detention time of 245 days at average design flow.

Following the Facility's aerated pond, further treatment will occur with solids stabilization and separation occurring in the stabilization ponds. The residual solids may require periodic dredging to prevent accumulation in the primary

ponds. The Permittee plans to clean the solids out of the primary ponds every 10 to 15 years. The Permittee is responsible for the proper handling and disposal of its biosolids. The Permittee is required to work with a Type IV certified operator, use approved land application sites and follow the requirements of Minnesota Rules Chapter 7041.

There are no bypass or overflow points known to exist in the disposal system.

The location of the Facility is shown on the map on page 5.

Preliminary Determination on the Draft Permit

The MPCA Commissioner has made a preliminary determination to major modify this NPDES/SDS permit for a term of approximately five years. The proposed permit modification is described above. A draft permit is available for review at the MPCA office at the Detroit Lakes address listed below and on-line at <http://www.pca.state.mn.us/index.php/about-mpca/mpca-news/public-notice/public-notice.html>.

A copy of the draft permit will be mailed to you if the MPCA receives your written or oral request at this office. If you have questions about this draft permit or the Commissioner's preliminary determination, please contact Holly Christensen at 218-846-8104.

Written Comments

You may submit written comments on the conditions of the draft permit or on the Commissioner's preliminary determination. Only comments or petitions concerning the proposed modification portions of the permit will be considered.

Written comments must include the following:

1. A statement of your interest in the permit application or the draft permit.
2. A statement of the action you wish the MPCA to take, including specific references to sections of the draft permit that you believe should be changed.
3. The reasons supporting your position, stated with sufficient specificity as to allow the Commissioner to investigate the merits of your position.

Petition for Public Informational Meeting

You also may request that the MPCA Commissioner hold a public informational meeting. A public informational meeting is an informal meeting that the MPCA may hold to solicit public comment and statements on matters before the MPCA, and to help clarify and resolve issues.

A petition requesting a public informational meeting must include the following information:

1. A statement identifying the matter of concern.
2. The information required under items 1 through 3 of "Written Comments," identified above.
3. A statement of the reasons the MPCA should hold a public informational meeting.
4. The issues that you would like the MPCA to address at the public informational meeting.

Petition for Contested Case Hearing

You also may submit a petition for a contested case hearing. A contested case hearing is a formal evidentiary hearing before an administrative law judge. In accordance with Minn. R. 7000.1900, the MPCA will grant a petition to hold a contested case hearing if it finds that: (1) there is a material issue of fact in dispute concerning the

application or draft permit; (2) the MPCA has the jurisdiction to make a determination on the disputed material issue of fact; and (3) there is a reasonable basis underlying the disputed material issue of fact or facts such that the holding of the contested case hearing would allow the introduction of information that would aid the MPCA in resolving the disputed facts in making a final decision on the draft permit. A material issue of fact means a fact question, as distinguished from a policy question, whose resolution could have a direct bearing on a final MPCA decision.

A petition for a contested case hearing must include the following information:

1. A statement of reasons or proposed findings supporting the MPCA decision to hold a contested case hearing according to the criteria in Minn. R. 7000.1900, as discussed above.
2. A statement of the issues proposed to be addressed by a contested case hearing and the specific relief requested or resolution of the matter.

In addition and to the extent known, a petition for a contested case hearing should also include the following information:

1. A proposed list of prospective witnesses to be called, including experts, with a brief description of proposed testimony or summary of evidence to be presented at a contested case hearing.
2. A proposed list of publications, references, or studies to be introduced and relied upon at a contested case hearing.
3. An estimate of time required for you to present the matter at a contested case hearing.

MPCA Decision

You may submit a petition to the Commissioner requesting that the MPCA Citizens' Board (Board) consider the permit issuance. To be considered timely, the petition must be received by the MPCA by 4:30 p.m. on the date the public comment period ends, identified on page 1 of this notice. Under the provisions of Minn. Stat. § 116.02, subd. 6(4), the decision whether to issue the permit and, if so, under what terms will be presented to the Board for decision if: (1) the Commissioner grants the petition requesting the matter be presented to the Board; (2) one or more Board members request to hear the matter before the time the Commissioner makes a final decision on the permit; or (3) a timely request for a contested case hearing is pending. You may participate in the activities of the Board as provided in Minn. R. 7000.0650.

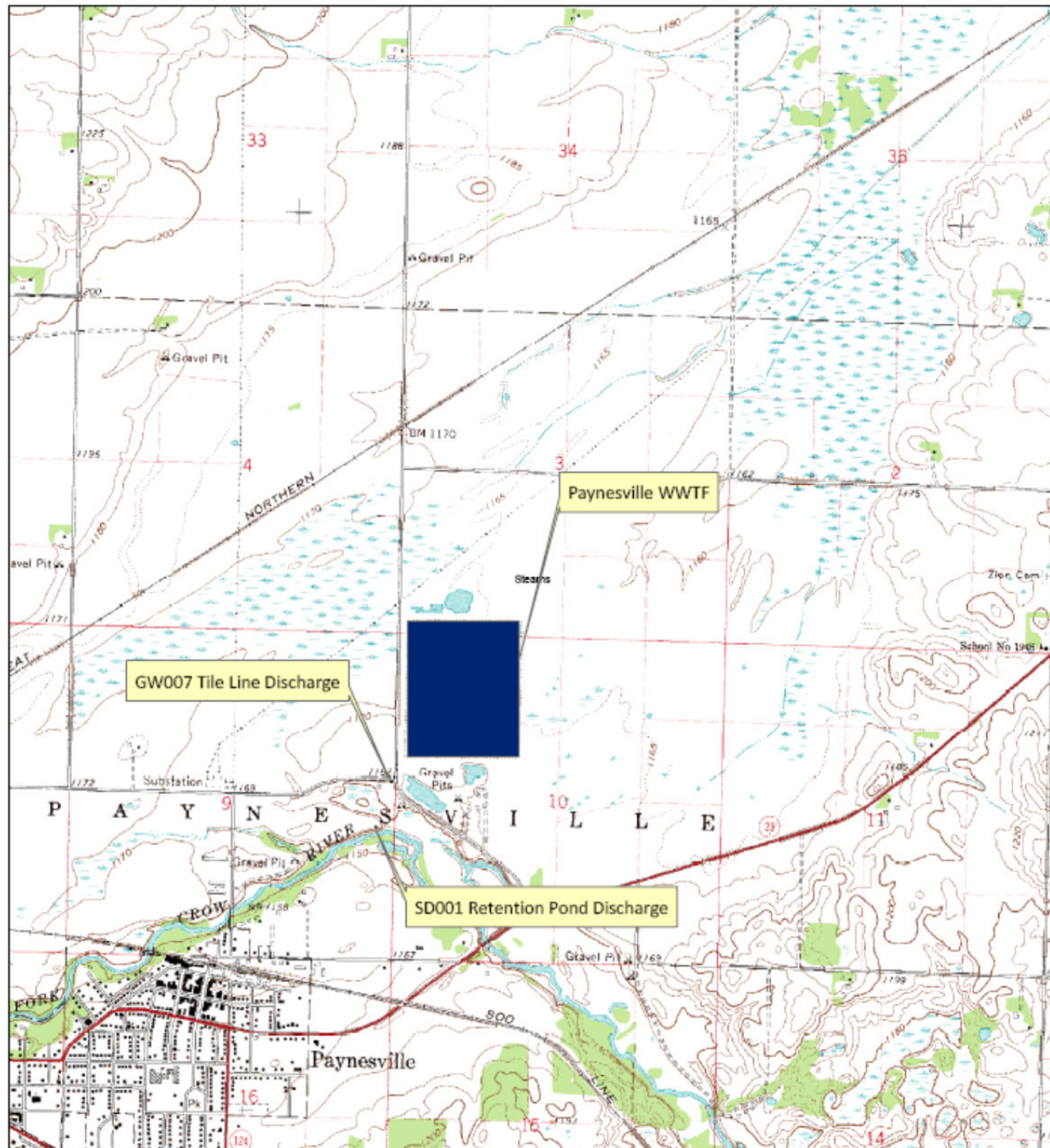
The written comments, requests, and petitions submitted on or before the last day of the public comment period will be considered in the final decision on this permit. If the MPCA does not receive written comments, requests, or petitions during the public comment period, MPCA staff as authorized by the Board, will make the final decision on the draft permit.

Comments, petitions, and/or requests must be submitted in writing on or before the end date of the public comment period identified on page 1 of this notice to:

Holly Christensen
Minnesota Pollution Control Agency
714 Lake Avenue, Suite 220
Detroit Lakes, MN 56501

Topographic Map of Permitted Facility

MN0020168, City of Paynesville WWTF
T122N, R1032W, Section 10 & 3
Paynesville Township, Stearns County, Minnesota



Map produced by: MPCA Staff, 5/17/11
Source: USGS Paynesville Quad
Scale: 1:24,000