



Le Sueur County, MN

Tuesday, February 23, 2016

Board Meeting

Item 4

9:20 a.m. Aaron Wills (30 min)

RE: West Jefferson Pipe PPL Application

Staff Contact:



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

Project Priority List (PPL)

Wastewater Application

1. **Applicant name:** Le Sueur County
Project area: West Jefferson Lake
Town/city: _____
Population: _____
County: Le Sueur

2. **Contact person:** Darrell Pettis
Address: 88 South Park Avenue, Le Center, MN 56057
Phone: 507-357-2251 **Fax:** 507-357-6375
E-mail: dpettis@co.le-sueur.mn.us

3. **Project consultants/Firm name (if applicable):** Bolton and Menk
Contact name: Jason Femrite
Address: 1960 Premier Dr, Mankato, MN 56002
Phone: 507-625-4171, ext. 2288 **Fax:** 507-625-4177
E-mail: Jasonfe@bolton-menk.com

4. Project area description:	☒ Sewered:	☒ Unsewered (submit map of project area)
a. Number of existing households:		130
b. Number of non-residential users:		0

Need or problem project addresses: (Check all that apply)

☒ Failing on-site systems	# of failing systems: <u>69</u>
☒ Connection to an existing system	☒ Expansion of existing treatment plant
☒ Rehab of an existing facility	☒ New treatment and/or collection system
☒ Rehab collection system	☒ Advanced treatment

5. **Please indicate if this project may be a Green Project Reserve (GPR) which are wastewater projects that are either categorical or non-categorical and have components or the entire project is applying to be determined GPR eligible.**

The U.S. Environmental Protection Agency (EPA) provided a guidance document listing examples of projects that will qualify for Green Project Reserve dollars. Below is a list of those examples. If the proposed project matches one or more of the examples, check the box next to the example that describes the project. For more information, see *CW Green Guidance* at <http://www.pca.state.mn.us/water/wastewater-financial.html>.

Categorical eligible project types

☒ 1. Water Efficiency

- ☒ a. Installation of water meters (applies only to drinking water distribution systems – contact the Minnesota Department of Health)
- ☒ b. Retrofit or replacement of water using fixtures, fittings, equipment or appliances
- ☒ c. Efficient landscape or agricultural irrigation equipment
- ☒ d. Systems to recycle gray water
- ☒ e. Reclamation, recycling, and reuse of existing rainwater, condensate, degraded water, stormwater, and/or wastewater streams.
- ☒ f. Collection system leak detection equipment
- ☒ g. Development and initial distribution of public education materials

● **2. Energy Efficiency**

- a. Energy efficient retrofits and upgrades to pumps and treatment processes
- b. Leak detection equipment for treatment works
- c. Producing clean power for 212 treatment works on site (wind, solar, hydroelectric, geothermal, biogas powered combined heat and power)
- d. Pro-rata share of capital costs for offsite publicly owned clean energy facilities that provide power to a treatment works.

● **3. Green Infrastructure**

- a. Implementation of comprehensive street tree or urban forestry programs, including expansion of tree box sizes to manage additional stormwater and enhance tree health.
- b. Implementation of green streets (combinations of green infrastructure practices in transportation rights-of-ways), for either new development, redevelopment or retrofits
- c. Implementation of water harvesting and reuse programs or projects, where consistent with state and local laws and policies.
- d. Implementation of wet weather management systems for parking areas which include: the incremental cost of porous pavement, bioretention, trees, green roofs, and other practices that mimic natural hydrology and reduce effective imperviousness at one or more scales.
- e. Establishment and restoration of riparian buffers, floodplains, wetlands and other natural features.
- f. Downspout disconnection to remove stormwater from combined sewers and storm sewers.
- g. Comprehensive retrofit programs designed to keep wet weather out of all types of sewer systems using green infrastructure technologies and approaches.

● **4. Environmentally Innovative Projects**

- a. Green Infrastructure/Low Impact development stormwater projects
- b. Decentralized wastewater treatment and/or reuse projects that reduce energy consumption, recharge aquifers and reduce water withdrawals and treatment costs
- c. Projects that employ development and redevelopment practices that preserve or restore site hydrologic processes through sustainable landscaping and site design.
- d. Projects that use water balance approaches (water budgets) at the project, local or state level that preserve site, local or regional hydrology. Such an effort could pilot and show-case efforts to plan and manage in a concerted manner, surface and groundwater withdrawals, stream base flow (aquatic species protection), wetland and floodplain storage, groundwater recharge and regional or local reuse and harvesting strategies using a quantified methodology.
- e. Projects that demonstrate the energy savings and climate change implications of sustainable site design practices and the use of green infrastructure such as green roofs, increased tree canopy, reduced water consumption and potable water use due to sustainable site designs, rainwater harvesting and reuse and reductions in hard or infrastructure needed to manage stormwater and Combined Sewers Overflow (CSOs).
- f. Projects that demonstrate the differential uses of water based on the level of treatment and potential uses as a means to reducing the costs of treating all water to potable water standards.
- g. Projects that identify and quantify the benefits of using integrated water resources management approaches.

● **5. Non-categorical (describe)**

6. Possible solution and cost estimates (if known): Regionalization to the City of Cleveland. Cost estimate included in Facility Plan submitted to MPCA.

7. Current project status: Facility Plan is complete. Conducting public outreach and gathering property owner commitments to participate to determine if project has enough community support to proceed.

8. Desired construction start date, if financing is available (month/year): June 2017

NOTE: Required attachments for unsewered area projects. A map of the project service area which has an identifiable scale, identifies all the structures with wastewater flows, and has the maximum impact zone clearly encircled.

On behalf of an eligible project as their authorized authority, I hereby submit this application for placement on the PPL:

Print Authorized

Representative Name: Darrell Pettis

Signature: _____

Title: County Administrator / Engineer

Date: _____

For more information, contact:

Bill Dunn, Clean Water Revolving Fund Coordinator at 651-757-2324 or bill.dunn@state.mn.us
www.pca.state.mn.us/water/wastewater-financial.html



PPL Projects in Unsewered Areas Scoring Worksheet

Project Priority List (PPL)

Minnesota Rule Chapter 7077.0118

Doc Type: PPL Points Determination

Facility Information (please print)

Project name: West Jefferson Lake
Applicant name
(if different): Le Sueur County
Contact name: Darrell Pettis Title: County Administrator / Engineer
E-mail address: dpettis@co.le-sueur.mn.us Phone: 507-357-2251

MPCA Use Only

Project Number
Staff Engineer
Total Points
Date

Instructions

This worksheet is used to score all requests for state financial assistance for wastewater improvement projects in unsewered areas. Scoring is based on the environmental criteria contained in Minnesota Rule Chapter 7077. The result of scoring is a ranked list called the Project Priority List (PPL) from which projects will be selected for funding.

Applicants must complete their sections of the worksheet and submit it with their requests for placement on the PPL. As part of completing the worksheet, the applicant must provide sufficient documentation to support the award of points. Complete application information is located on the Minnesota Pollution Control Agency (MPCA) website at <http://www.pca.state.mn.us/ppl>.

Complete this form if your proposal includes new or improved wastewater facilities within an unsewered area.

For more information, contact: Bill Dunn, Clean Water Revolving Fund Coordinator at 651-757-2324, Fax 651-297-8324 or bill.dunn@state.mn.us.

Note: Round up calculated point value for each of the questions 105 – 115 and 125 to the next whole number (e.g., 4.1 = 5).

Applicant completes questions 105 - 140; MPCA completes questions 145 - 150 Points

Required submittals include:

- 1) State Revolving Fund Project Priority List, Part 1: [Unsewered Area Needs Documentation](http://www.pca.state.mn.us/ppl) for questions 105, 110, 115, 120 and 125. Form is located on the MPCA website at <http://www.pca.state.mn.us/ppl> under the Applications and forms tab.
- 2) Provide a scaled map showing locations of existing Subsurface Sewage Treatment System (SSTS) as supporting documentation for questions 120, 125 and 130.

[105] Existing SSTS systems discharges posing threat to public health or safety [subp. 1]

Existing SSTS systems that have the potential to immediately and adversely affect or threaten public health or safety. At a minimum, this includes ground surface or surface water discharges of untreated or partially treated wastewater and sewage backup into a dwelling or other establishment. (Minn. R. 7080.0020, subpart 19a)

105.1 How many total structures with SSTS systems are included in the project?

130

105.2 How many structures with SSTS systems are posing a threat to public safety?

0

(45) x (total number of failures calculated in 105.2) / (total number of waste discharging structures 105.1) = **0**

[110] Existing SSTS systems with failure to protect ground water [subp. 2]

110.1 How many structures with SSTS systems or other systems (not counted in question 105.2 above) in the proposed project area that have one or more sewage tanks which obviously leak below the designated operating level or have less than the required vertical separation (Minn. R. 7080.0060, subpart 3, item B)?

69

(15) x (total number of failures to protect ground water in 110.1) / (total number of waste discharging structures 105.1) = **8**

[115] Existing SSTS systems with properties that cannot conform to setback requirements [subp. 3]

- 115.1 Remaining number of structures discharging wastewater in the proposed project area (not counted in 105.2 and 110.1), that because of property size or configuration, *do not* conform to setback requirements as they apply to one or more of the following:

Water supply wells	
Buried water lines	
Buildings	1
Property lines	5
Ordinary high water level of public waters	

$$(5) \times (\text{total number of setback failures } 115.1) / (\text{total number of waste discharging structures } 105.1) = \boxed{1}$$

[120] Existing discharge near impaired water or outstanding resource value water (ORVW) [subp. 4]

- 120.1 Does one or more of the existing SSTS discharge within 500 feet of an impaired water or ORVW? * Yes ☒ No

If Yes, enter 5 points 5

[125] Failed SSTS near impaired water or ORVW [subp. 5]

- 125.1 How many failed SSTS, that meet the definition of failure under numbers 105.2 or 110.1 above, have wastewater discharge areas within 500 feet of an impaired water or ORVW?

69

$$(5) \times (\text{number of failed SSTS within 500 ft. of an impaired water or ORVW in } 125.1) / (\text{total number of waste discharging structures}) = \boxed{3}$$

[130] Existing impact density of SSTS systems [subp. 6]

Provide a scale map which contains all existing structures which generate wastewater and the "Impact Zone" identified. The Impact Zone is defined as the smallest possible circle drawn around the area that encompasses 90 percent of the structures discharging wastewater in the proposed project area.

- 130.1 How many acres is the impact zone (area of drawn circle) of the proposed project service area?

466

- 130.2 How many structures discharge wastewater within the impact zone of the proposed project?

119

- 130.3 Number of structures within the impact zone/area (acres) of impact zone = impact density

0.255

If density is less than 0.25 enter 0 points 0

If density is 0.25-0.5 enter 10 points 10

If density is 0.5-1.0 enter 20 points

If density is greater than 1.0 enter 30 points

[135] Proposed land (including sub-surface) discharge [subp. 7]

- 135.1 Does the proposed project call for consumptive use (nitrogen or volume) spray irrigation or land disposal systems, which are required by permit to denitrify (nitrate limit)? ☒ Yes * No

If Yes, enter 20 points

[140] Proposed project implements corrective measures (Effluent Limits Coordinator) [subp. 8]

- 140.1 Will the project implement corrective measure(s) for problems identified in a study, such as: * Yes ☒ No

- Clean Water Partnership Project
- Impaired Water Study
- EPA-approved Watershed Restoration Action Strategy
- Equivalent (other) study, e.g. County Water Plan

Jefferson-German Lake Chain TMDL. See pages 66, 77, and 82.

Le Sueur County Water Plan. See pages 12-15.

Jefferson-German Septic Inventory Project.

If Yes, enter 5 points 5

Project name: West Jefferson Sewer Pipe**Points****[145] Project helps meet a total maximum daily load (TMDL) for receiving water** (*Effluent Limits Coordinator*) [subp. 9]

- 145.1 Does this project contribute to the achievement of a TMDL by being designed to reduce the discharge of pollutants as required by an Agency approved TMDL implementation plan or does the project require an National Pollutant Discharge Elimination System (NPDES) Permit or a State Disposal System (SDS) Permit that will require the reduced discharge of pollutants based on a TMDL? ☒ Yes ☒ No

If Yes, enter 20 points

20**[150] Proposed project points reduction for new/expanded discharges into specified water** (*Effluent Limits Coord.*) [subp. 10]

- 150.1 Does the proposed project involve a new discharge to one or more of the following waters: ☒ Yes ☒ No
- a) Outstanding Resource Value Waters (Minn. R. 7050.0180)
 - b) Impaired waters (Section 303(d)) of the Clean Water Act
 - c) Classification 2A, lake, or wetland that exceeds 200,000 gallons per day

If Yes, enter minus 5 points

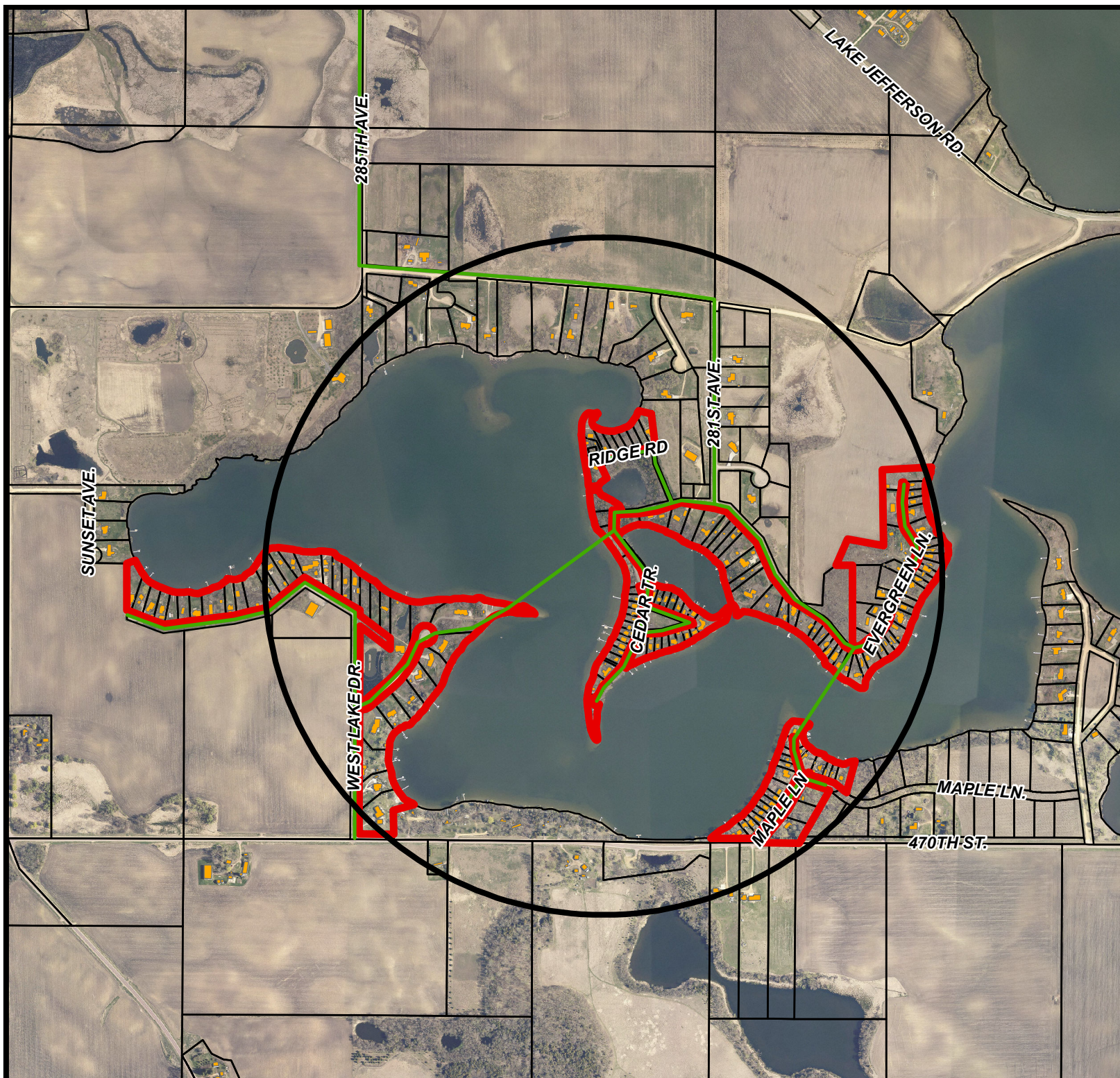
0**[155] Project includes wastewater reuse**

- 155.1 Does the project include the beneficial use of treated wastewater effluent that will reduce or replace the use of a groundwater, surface water, or potable water source? ☒ Yes ☒ No
- 155.2 Do the project components needed to beneficially use treated wastewater effluent account for at least 20% of the total eligible project cost? ☒ Yes ☒ No
- 155.3 Does the project receive points under item 35 (Minn. R. 7077.0117, subp. 4) for land discharge? ☒ Yes ☒ No

If Yes to both 155.1 and 155.2, enter 30 points

0**Total****52**

LE SUEUR COUNTY PROJECT PRIORITY LIST SCORING



Legend

-  Impact Zone
-  Proposed Sanitary
-  Service District
-  Structures
-  Cities
-  Parcels

N



0 250 500 1,000
Feet
1 inch = 1,000 feet

CITY OF CLEVELAND

RESOLUTION # 07-2016

ADOPTING POSITION ON WEST JEFFERSON LAKE SANITARY SEWER REQUEST

WHEREAS, a group of property owners around West Jefferson Lake has requested that the City of Cleveland allow them to connect their proposed sanitary sewer collection system to the City's system without being annexed into the City limits, and;

WHEREAS, the City Council discussed a number of issues and concerns with regards to this request at their November 16, 2015 city council meeting and a committee meeting on December 11, 2015 and determined that their request would be allowed if a suitable agreement can be reached that establishes the policies and conditions of allowing such a connection, and;

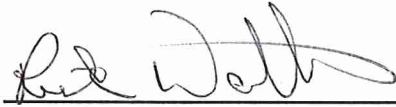
NOW, THEREFORE, THE CITY OF CLEVELAND RESOLVES:

Section 1. The City recognizes that allowing the West Jefferson Lake area properties to discharge their sanitary sewer to the City's municipal collection and treatment system will provide benefit to the environment as well as to the property owners.

Section 2. The City, upon reaching an agreement on a comprehensive set of conditions and policies to be established, is willing to allow the connection of a non-municipal sewer system consisting of no more than 140 properties serving the West Jefferson Lake area (an area outside the City limits) to the municipal sewer system.

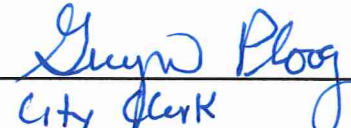
Adopted: February 1, 2015

Cleveland City Council



Mayor

ATTEST:



City Clerk



