



December 23, 2020

Mr. Bruce Henningsgaard, PE
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4195

Re: Submittal of 2020 Annual Report for City of Princeton Restoration Projects
Permit #MN0024538
WSB Project No. R-013992-000

Dear Mr. Henningsgaard,

Attached please find the submittal of the City of Princeton's Restoration Projects Annual Report. This report is being submitted to you in conformance with the requirements of the City of Princeton's Wastewater Treatment Plant Permit #MN0024538.

If you have any questions or comments concerning the annual report submittal contained herein, please feel free to call me at 763-762-2873.

Sincerely,

WSB

Amy Anderson, PE
Project Engineer

Attachments

cc: Robert Barbian, City of Princeton
Bob Gerold, City of Princeton
Robin Novotny, MPCA
Nicole Blasing, MPCA
Chandi McCracken, MPCA
Chris Klinghagen, Princeton Wastewater Operator
Jennifer Edison, WSB

alp

I. INTRODUCTION

This annual report has been prepared for the City of Princeton in conformance with requirements for the operation of the City's Wastewater Treatment Facility under Permit #MN0024538. This report provides the following information in accordance with the permit:

- Description of the sites inspected.
- Photographic documentation that the trade is still in place and operating properly.
- If damage has occurred, photographic documentation of the damage.
- Photographic documentation of completed repair work.
- If all repair work has not been completed, a schedule for completion.
- Detailed description of the remaining repair work to be completed.
- Estimate of the total cost for each offset project.

II. DESCRIPTION OF SITES INSPECTED

The Site Map is attached to this report showing all five of the Rum River Bank Stabilization sites inspected in the City of Princeton. These five Rum River sites provide the offset trading for Permit #MN0024538. The five sites are referenced as:

- Site 1 – Highway 95 (2012 Construction)
- Site 2 – Princeton Middle School (2012 Construction)
- Site 3 – Golf Course (2012 Construction)
- Site 4 – Princeton Elementary School (2014 Construction)
- Site 5 – Abney Salvage Yard (2014 Construction)

III. PHOTOGRAPHIC DOCUMENTATION THAT THE TRADE IS STILL IN PLACE AND OPERATING PROPERLY

Pages 4 through 11 of this annual report contains the photos of each of the five offset trading sites from the site inspection conducted by City staff and MPCA on September 16, 2020. The photos on these pages represent a sample of all the photos taken at the trading sites during the repair work this year and are meant to highlight the post-construction trading sites and their functionality. All photos taken during site visits in 2020 will be electronically submitted to the MPCA along with this report and will also be available by contacting Amy Anderson at WSB.

IV. IF DAMAGE HAS OCCURRED, PHOTOGRAPHIC DOCUMENTATION OF THE DAMAGE

The five trading sites were inspected on April 1, May 7, June 2, July 9, August 6, September 1, September 16 (with MPCA), and October 6, 2020. Damage observed at the sites in 2020 was minimal overall. The notes compiled by City staff in their inspection reports are summarized below:

Site 1 – Highway 95

Issues at the Highway 95 include the following:

- Some minor sloughing and undercutting
- A small hole observed in the bench. The hole was noted in 2019 but does not appear to have grown in 2020.

Site 2 – Princeton Middle School

Issues at the Princeton Middle School site include the following:

- Bare areas which lack vegetative cover.
- Minor erosion occurring at the upstream end of the site.

Site 3 – Golf Course

Issues at the Golf Course site include the following:

- Minor bank sloughing
- Erosion occurring downstream of the project site.

Site 4 – Princeton Elementary School

No significant maintenance issues were reported at the Princeton Elementary School Site.

Site 5 – Abney Salvage Yard

Issues at the Abney Salvage Yard include the following:

- Some bare spots which need additional vegetation.

V. PHOTOGRAPHIC DOCUMENTATION OF COMPLETED REPAIR WORK

No major repair work was completed in 2020, but several minor repairs were completed by City of Princeton Public Works staff. Pages 4 through 11 show documentation of the existing conditions at all five sites from the site inspection on September 16, 2020. The City of Princeton spent approximately \$15,000 in 2020 to complete the activities mentioned below.

Site 1 – Highway 95

Minor repairs at this site included:

- Install additional blanket, seed, and approximately 180 linear feet of revetments
- Apply fertilizer

Site 2 – Princeton Middle School

Minor repairs at this site included:

- Install additional blanket, seed, and approximately 100 linear feet of revetments
- Apply fertilizer

Site 3 – Golf Course

Minor repairs at this site included:

- Install additional blanket, seed, and approximately 135 linear feet of revetments
- Apply fertilizer

Site 4 – Princeton Elementary School

Minor repairs at this site included:

- Apply fertilizer

Site 5 – Abney Salvage Yard

Minor repairs at this site included:

- Planted arborvitae and small pine trees
- Filled minor rills with wood chips to slow runoff erosion

VI. IF ALL REPAIR WORK HAS NOT BEEN COMPLETED, A SCHEDULE FOR COMPLETION

All minor repairs deemed necessary in 2020 have been completed. City staff plan to continue to address minor repairs at all sites as needed through 2021.

VII. DETAILED DESCRIPTION OF THE REMAINING REPAIR WORK TO BE COMPLETED

The City does not currently have major repair work scheduled for the trading sites for 2021. However, the City recognizes that additional repair work may be required due to multiple factors, including water levels on the Rum River, success of the revetments that were installed in addressing erosion, and growth of seed installed in 2020, as well as duration and intensity of future rainfall events. The City therefore proposes the following repair and inspection schedule for 2021:

Site 1 – Highway 95

The proposed repairs at the Highway 95 are as follows:

- Additional seeding as needed to fill in bare spots.
- Monthly inspection of the site to document bank erosion at the upstream end and determine if additional repair work is required

Site 2 – Princeton Middle School

The proposed repairs at the Princeton Middle School site are as follows:

- Additional seeding as needed to fill in bare spots.
- Monthly inspection of the site to document bank erosion at the upstream end and determine if additional repair work is required.

Site 3 – Golf Course

The proposed repairs at the Golf Course site are as follows:

- Additional seeding as needed to fill in bare spots.
- Monthly inspection of the site to document bank erosion and sloughing areas and determine if additional repair work is required.

Site 4 – Princeton Elementary School

The proposed repairs at the Elementary School Site are as follows:

- Monthly inspection of the site to document bank erosion and sloughing areas and determine if additional repair work is required.

Site 5 – Abney Salvage Yard

The proposed repairs at the Abney Salvage Yard are as follows:

- Continue to water the trees planted in 2019 and 2020 in order to encourage growth and establishment.
- Monthly inspection of the site to document washouts and determine if additional repair work is required.

VIII. ESTIMATE OF THE TOTAL COST FOR EACH OFFSET PROJECT

The inspection and maintenance plan described above will be carried out by city staff, with assistance from WSB. Minor repairs such as seeding, staking, and fertilizing will be completed as needed. The current cost estimate for planned work in 2021 is \$5,000. This is less than the City of Princeton's annual budget of \$15,000 per year for repairs and maintenance of the trading sites. However, the City did not use the full \$15,000 budget for repairs in 2019 or 2018, therefore there is additional funding available should the current work plan need to be revised.

Site 1 – Highway 95 (2012 Construction)



Site 2 – Princeton Middle School (2012 Construction)





Site 3 – Golf Course (2012 Construction)





Site 4 – Princeton Elementary School (2014 Construction)



Site 5 – Abney Salvage Yard (2014 Construction)



