

Applicant: Julie Long; City of Bloomington
Consultant:
Project: Sediment Removal within Normandale Lake
Location: 5501 West 84th Street: Bloomington
Rule(s): 3,5 and 8
Reviewer: BCO

General Background & Comments

The project proposes the excavation/removal of approximately 400 cubic yards of accumulated sediment at a storm sewer outfall located on the north end of into Normandale Lake, MDNR #1045P to the east of the intersection of West 84th Street and Normandale Lake Boulevard in Bloomington.

A sedimentation basin was constructed at this location with the original lake construction as shown on page 2 of 16 of the construction documents dated February 28, 1979 and constructed in 1981. The excavation will restored the original constructed volume/contours. The sediment accumulation was observed during the recent drawdown of the lake.

A District permit is required because the project will excavate 50 cubic yards or more of material, Rules 4.2.1a and 5.2.1a. The excavation also triggers the District's storm water requirements, Rule 4.3.1a. But because no impervious surfaces will be disturbed, created or reconstructed by the proposed work, no stormwater management facilities need to be provided to meet the criteria in subsection 4.3.1. District Rule 5, Erosion and Sediment Control, and Rule 8, Sediment Removal, apply to the project. To benefit from the authorization available under Department of Natural Resources General Permit #97-6112, issued for work in the Nine Mile Creek watershed, the city will need to comply with the terms and conditions of that permit. (General Permit #97-6112).

Since Normandale Lake has been classified as a public water by the MDNR, MDNR #1045P, and not a wetland, the requirements of District Rule 3.4, Wetland Buffers, are not applicable.

Sampling of the material to be removed has found that the level of PAH's (polycyclic aromatic hydrocarbons) in the sediment exceed the SRV (Soil Reference Values) for residential or industrial use. The material will therefore be disposed of at a permitted Municipal Solid Waste Landfill.

Exhibits

1. Permit Application dated November 19, 2018.

2. Plan sheets dated November 5, 2018.
3. E-mail correspondence from the MDNR dated November 29, 2018 regarding the MDNR's review and permit requirements for the project.
4. Sediment sample test results from Pace Analytical dated November 9, 2018.

3.0 Wetlands Management

Normandale Lake is a public water, MDNR #1045P, as identified by the Minnesota Department of Natural Resources, not a wetland, therefore the District's buffer requirements, Rule 3.4, are not applicable.

5.0 Erosion and Sediment Control

The proposed work is to be undertaken during the 2018- 2019 winter months with frozen soil conditions to minimize impacts and completed prior to the March 1st date that the refilling of the lake is scheduled to begin. The areas disturbed will be restored erosion control blanket with a mesic wetland seed mixture (suitable for semi-saturated conditions). The project contact is Steve Segar, city of Bloomington.

8.0 Sediment Removal

The project proposes the removal of a total of approximately 414 cubic yards of accumulated sediment within Normandale Lake, a public water as noted, triggering NMCWD Rule 8.0. The sediment has been tested and will be disposed of at a permitted Municipal Solid Waste Landfill.

Rule 8.3 Criteria states, Removal of accumulated sediment at storm sewer outfalls may be permitted upon submittal of an application meeting the following criteria:

8.3.1 Removal of sediment must not alter the original alignment, slope of cross-section of the beds, banks or shores of any public water.

The project is to reestablish the "dead-storage" volume conditions based on conditions assumed from reviewing the project as-built of the basin.

8.3.2 Any excavated materials storage or disposal sites must be identified and shown to be:

a) Not below the OHW of a public water, public water wetland or wetland subject to the Wetland Conservation Act

b) Not in the floodplain; or

c) Not subject to erosion or likely to cause redeposition of the sediment to an adjacent water body, storm water facility or storm sewer.

The sediment has been tested and will be excavated, trucked and disposed of at a permitted Municipal Solid Waste Landfill.

8.3.3 Degradation or erosion of the banks or bed of the subject water body by entry of equipment must be avoided.

The work is to be completed during the 2018- 2019 winter months with frozen ground conditions to minimize impacts within the lake and prior to the March 1, 2019 the date when refilling the lake is scheduled to begin. The areas disturbed will be restored erosion control blanket with a mesic wetland seed mixture (suitable for semi-saturated conditions).

8.3.4 Where determined necessary by the District to protect water quality, a flotation silt curtain shall be placed around the sediment removal site and maintained for the duration of the project.

See answer to 8.3.3.

8.3.5 No activity affecting the bed of a protected water maybe conducted between March 15 and June 15 on watercourses, or between April 1 and June 30 on all other public water bodies, to minimize impacts of fish spawning and migration.

See answer to 8.3.3.

11.0 Fees

Because the property owner is a public entity, no fees are charged.

Rules 2.0-6.0 \$0

12.0 Financial Assurances

Because the property owner is a public entity, the District’s financial assurance requirements do not apply.

Sureties for the project are: \$0

Findings

1. The proposed project includes the information necessary, plan sheets and erosion control plan, for review.
2. Rules 3, 5 and 8 are met.
3. The Department of Natural Resources General Permit #1997-6112 will apply to authorized work in Nine Mile Creek that is subject to Minnesota Rules 6115, as long as the permittee complies with the conditions of the general permit. Otherwise the City will need to determine the applicability of and need for a DNR permit

Recommendation

Approval, contingent upon:

1. General Conditions

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Submittal of an as-built survey of the excavated area.

Board Action

It was moved by Manager _____, seconded by Manager _____ to approve permit application modification No. 18-130 with the conditions recommended by staff.

Permit #: 2018-130
Project Name: Sediment Removal – Normandale Lake: Bloomington
Approval Date: December 19, 2018

General Provisions

1. All temporary erosion control measures shown on the erosion and sedimentation control plans must be installed prior to commencement of surface or vegetation alteration and be maintained until completion of construction and vegetation is established as determined by NMCWD.

If silt fence is used, the bottom flap must be buried and the maximum allowable spacing between posts is 4-foot on center. All posts must be either 2-inch x 2-inch pine, hardwood, or steel fence posts. If hay bales are used, all bales must be staked in place and reinforced on the downstream side with snow fence.
2. All areas altered because of construction must be restored with seed and disced mulch, sod, wood fiber blanket, or be hard surfaced within two weeks after completion of land alteration and no later than the end of the permit period.
3. Upon final stabilization, the permit applicant is responsible for the removal of all erosion control measures installed throughout the project site.
4. At the entryway onto the site, a rock filter dike being a minimum of two feet in height and having maximum side slopes of 4:1 must be constructed. This rock filter dike will enable construction traffic to enter the site and also provide an erosion control facility.
5. If dewatering is required and sump pumps are used, all pumped water must be discharged through an erosion control facility prior to leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system.
6. The NMCWD must be notified a minimum of 48 hours prior to commencement of construction.
7. The NMCWD, its officers, employees and agents review, comment upon, and approve plans and specifications prepared by permit applicants and their consultants for the limited administrative purpose of determining whether there is reasonable assurance that the proposed project will comply with the regulations and criteria of the NMCWD. The determination of the NMCWD that issuance of this permit is appropriate was made in reliance on the information provided by the applicant.
8. The grant of this permit shall not in any way relieve the permittee, its engineer, or other professional consultants of responsibility, nor shall it make the NMCWD responsible for the technical adequacy of the engineer's or consultant's work. The grant of this permit shall not relieve the permittee from complying with all conditions and requirements of the permit which shall be retained by the permittee with the permit.
9. The issue of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
10. This permit is permissive only. No liability shall be imposed upon the NMCWD or any of its officers, agents or employees, officially or personally, on account of the granting of this permit or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees, or contractors.

11. In all cases where the doing by the permittee of anything authorized by this permit shall involve the taking, using, or damaging of any property, rights or interests of any other person or persons, or of any publicly-owned lands or improvements or interests, the permittee, before proceeding therewith, shall obtain the written consent of all persons, agencies, or authorities concerned, and shall acquire all necessary property, rights, and interest.
12. The permit is transferable only with the approval of the NMCWD (see NMCWD Rule 1.0). The permittee shall make no changes, without written permission previously obtained from the NMCWD, in the dimensions, capacity, or location of any items of work authorized by this permit.
13. The permittee shall grant access to the site at all reasonable times during and after construction to authorized representatives of the NMCWD for inspection of the work authorized by this permit.
14. This permit may be terminated by the NMCWD at any time deemed necessary in the interest of public health and welfare, or for violation of any of the provisions of this permit.
15. Construction work authorized under this permit shall be completed on or before date specified above. The permittee may, in writing, request that the NMCWD extend the time to complete the project in accordance with NMCWD Rule 1.0.



Permit No.2018-130

Is hereby issued to Julie Long, City of Bloomington, subject to the conditions specified in the attached form:

For the removal of accumulated sediment at the outfall of a storm sewer along West 84th Street discharging into Normandale Lake in Bloomington.

Steve Kloiber, Chair
Nine Mile Creek Watershed District

This permit expires on: January 1, 2020

CONSTRUCTION NOTES

SITE ACCESS

* FURNISH AND INSTALL WOODCHIP ACCESS PAD

SEDIMENT EXCAVATION

* REMOVE SEDIMENT AS SHOWN, TYPICAL SLOPES NOT TO EXCEED 3:1
 * SEDIMENT REMOVAL 414 CY, ALL EXCESS
 * SEE SPEC BOOK FOR SEDIMENT TESTING ANALYSIS
 * SEE SPECIAL PROVISIONS

RIP RAP

* FURNISH AND INSTALL 8 TONS CLASS III RIP RAP
 * FURNISH AND INSTALL 4 TONS GRANULAR FILTER MATERIAL

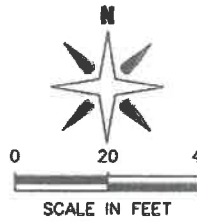
RESTORATION

* FURNISH AND INSTALL LOAM TOPSOIL AND SEED
 * FURNISH AND INSTALL EROSION CONTROL BLANKET CATEGORY 3N

TRAFFIC CONTROL

* SEE SHEET 8

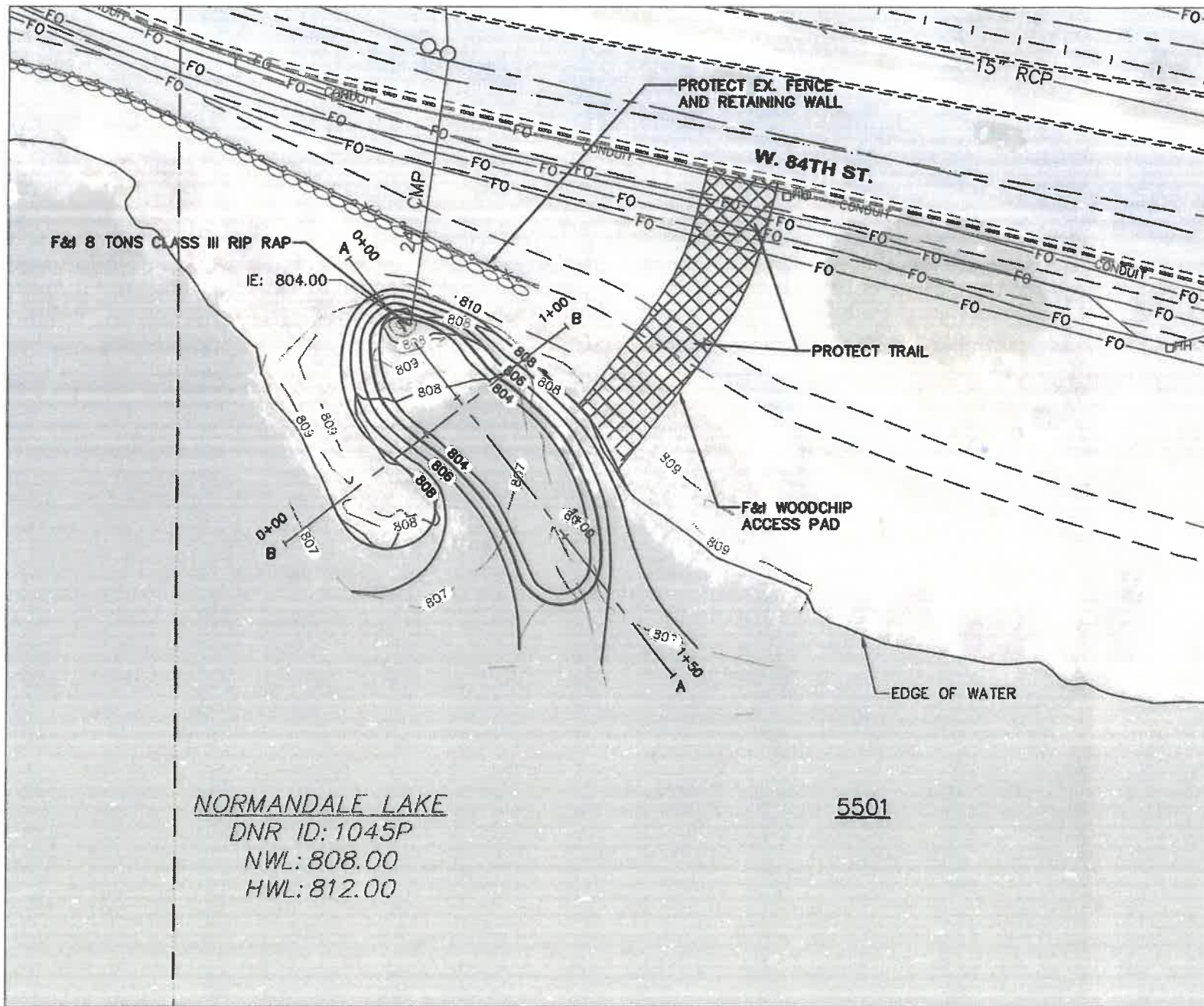
SITE C - 5501 W. 84TH ST.
 NORMANDALE LAKE



SITE C

5501 W. 84TH ST.

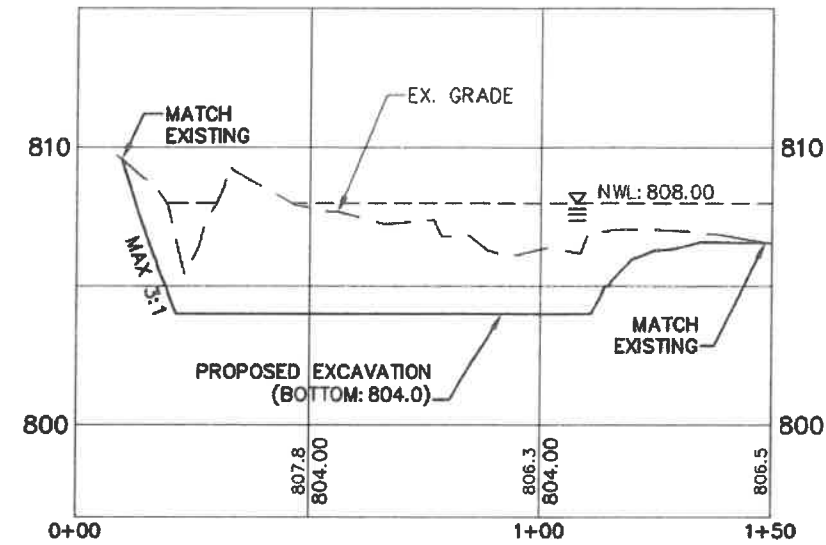
NORMANDALE LAKE



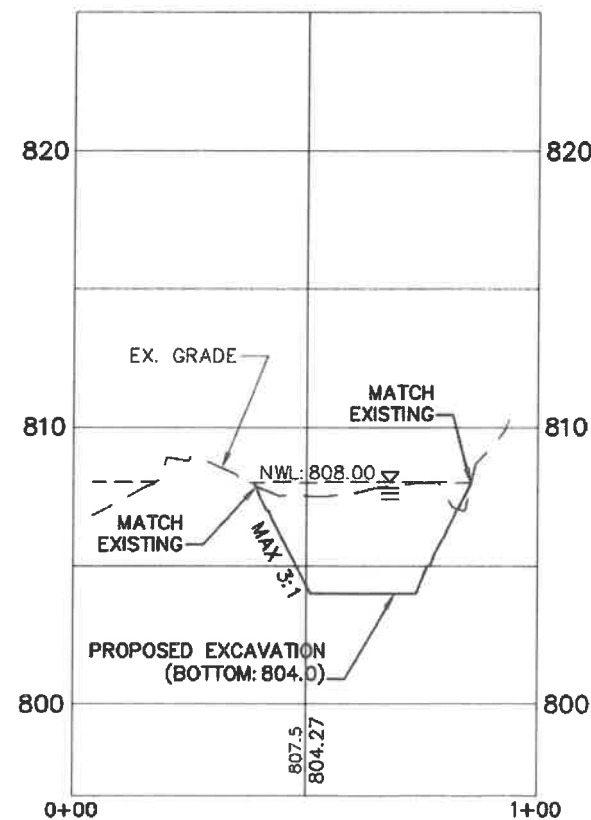
NORMANDALE LAKE
 DNR ID: 1045P
 NWL: 808.00
 HWL: 812.00

5501

SECTION A-A



SECTION B-B



1700 W. ARISTA ST.
 BLOOMINGTON, MN 55431
 PHONE (612) 962-3700

CITY OF BLOOMINGTON
 MINNESOTA

ENGINEERING DIVISION
 PUBLIC WORKS DEPARTMENT
 2018-902 POND AND STORM SEWER
 MAINTENANCE PROJECT

DATE	DESCRIPTION	BY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Steven W. Segar
 Steven W. Segar
 25072 11/5/18
 LIC. # DATE

DRAWN: DAC
 CHECKED: SWS
 APPROVED: SWS

SHEET:
 7 OF 8