

Coon Creek Watershed District

RULES

TABLE OF CONTENTS

1.0	STATUTORY AUTHORIZATION	5
1.1	Authorization	
2.0	FINDINGS	5
3.0	PURPOSE AND INTENT	6
3.1	Purpose	
3.2	Intent	
4.0	SCOPE AND APPLICABILITY	6
4.1	Scope	
4.2	Applicability	
5.0	GENERAL POLICY & PROCEDURAL REQUIREMENTS	7
5.1	Permit Required	
5.2	Treatment to the Maximum Extent Practicable	
5.3	Pre-Application Meeting Encouraged	
5.4	Application	
5.5	Submittals	
5.6	Timing of Applications & Board Meetings	
5.7	Authorization to Enter and Inspect Property	
6.0	FEES AND SECURITY ESCROWS	9
6.1	Policy	
6.2	Fees	
6.3	Government Agencies Exempt from Fees	
6.4	Escrow	
7.0	PLAN APPLICATION REVIEW PROCEDURE	9
7.1	Policy	
7.2	Determination of Whether the Application is Complete	
7.3	Remedy of Deficiencies	
7.4	Timing of Board Review and Board Actions	
7.5	Stipulations and Variances	
7.6	Staff Report-Findings and Conclusions	
7.7	Presentation of Information	
7.8	Record of Review	
7.9	Notice of Permit Application Status	
8.0	REQUIREMENTS	11
8.1	Bridges & Culverts	
8.2	Buffer Strips	
8.3	Infiltration	
8.4	Lake & Wetland Management	
8.5	Nondegradation	
8.6	Pipeline & Utility Crossings	
8.7	Pretreatment	
8.8	Rate Control	
8.9	Volume Control	

9.0	APPROVAL STANDARDS	17
9.1	Drainage	
9.2	Floodplain	
9.3	Groundwater	
9.4	Soils And Erosion Control	
9.5	Stormwater	
9.6	Water Quality	
9.7	Wetlands	
9.8	Wildlife	
10.0	PERMITS	35
10.1	Permit Required	
10.2	Permit Scope	
10.3	Permit Extensions	
10.4	Permit Assignment	
10.5	Permit Applicability	
10.6	Permit Stipulations	
10.7	General Permit Conditions	
10.8	As Built Plans Required	
11.0	COMPLIANCE INSPECTIONS	37
11.1	Regular Compliance Inspection	
11.2	Frequency of Inspection	
11.3	Scope of Inspection	
11.4	Notice of Inspection	
11.5	Violations Found During Inspection	
12.0	EASEMENTS	38
12.1	Ditch Easements	
12.2	Maintenance Easements	
13.0	MAINTENANCE	39
13.1	Maintenance Plan	
13.2	Maintenance Agreement	
13.3	Recording of the Maintenance Agreement	
13.4	Failure to Maintain Practices	
13.5	Annual Inspection of Stormwater Facilities	
13.6	Right of Entry for Inspection	
13.7	Records of Installation and Maintenance Activities	
14.0	WAIVERS AND VARIANCES	42
14.1	Waivers	
14.2	Variances	
14.3	Term of a Variance	
14.4	Violation of a Variance	
14.5	Conditions	
15.0	ENFORCEMENT AND PENALTIES	43
15.1	Violations	
15.2	Notice of Violation	
15.3	Remedial Methods	

15.4	Appeal of Notice of Violation	
15.5	Stop Work Order	
15.6	Restoration of Lands	
15.7	Attorney's Fees and Costs	
16.0	ILLICIT DISCHARGES	44
16.1	Illicit Discharge Prohibition	
16.2	Exceptions	
16.3	Illicit Connections Prohibited	
17.0	ADOPTION OF RULE	45
17.1	Severability	
17.2	Compatibility with Other Requirements	
17.3	Prior Rules and Regulations	
17.4	Effective Date	
17.5	Adopted	
17.6	Certification of Rules	
	APPENDIX A: DEFINITIONS	47

1. STATUTORY AUTHORIZATION

1.1 Authority These rules are adopted pursuant to:
Minnesota Statutes Section 103B.201
Minnesota Statutes Section 103B.231
Minnesota Statutes Section 103D.201
Minnesota Statutes Section 103D.335
Minnesota Statutes Section 103D.341

2. FINDINGS

The Coon Creek Watershed District Board of Managers finds that:

1. The watershed's environment is determined by a set of existing natural resources and processes.
2. The primary determinant for management within the watershed is the hydrologic system.
3. The hydrologic cycle is the unifying factor of the natural resource components identified above.
4. Ditches and other watercourses, wetlands and other water bodies, floodplains and groundwater recharge are all integral parts of the hydrologic system of the watershed.
5. Water quality, soils, vegetation and wildlife are related in that they are affected by or affect the hydrologic system.
6. Land development projects and associated increases in impervious cover alter the hydrologic response of local watersheds and can increase stormwater runoff rates and volumes, flooding, stream channel erosion, and sediment transport and deposition.
7. This stormwater runoff contributes to increased quantities of water-borne pollutants.
8. Stormwater runoff, soil erosion and nonpoint source pollution can be controlled and minimized through the regulation of stormwater runoff from development sites through a land management and development approach that minimizes impact on water resources.

The Coon Creek Watershed District has determined that the regulation of stormwater runoff discharges from land development projects and other construction activities is essential to control and minimize increases in stormwater runoff rates and volumes, soil erosion, stream channel erosion, and nonpoint source pollution associated with stormwater runoff, and that regulation is in the public interest and will prevent threats to public health and safety.

Therefore, the Coon Creek Watershed District (District) establishes this set of water quality and quantity policies applicable to all surface waters to provide reasonable guidance for the regulation and management of water for the purpose of protecting local water resources from degradation.

3. PURPOSE AND INTENT

3.1 Purpose

The Purpose of these rules is to enable the District to evaluate, permit and monitor activities affecting the water and related land resources of the District in an orderly and informed fashion.

3.2 Intent

The intent of these rules is to:

1. Manage the watershed's water and related land resources so they remain clean.
2. Prevent public health and safety hazards.
3. Prevent property damage.
4. Promote beneficial uses.
5. Reduce the discharge of pollutants from stormwater to the maximum extent practicable (MEP)
6. Identify waterways, floodplains and wetlands in which land disturbance activity should be restricted, and, in appropriate cases, prohibited.
7. Give due consideration to alternatives and creative solutions in planning and using the water and related land resources of the watershed to encourage and pursue low impact development.

Where no feasible and prudent alternative exists, the use shall be accomplished in a manner which assures the protection and safety of persons and property, public and private and which as nearly as possible:

- Preserves and protects the natural environment; and
- Will not result in the degradation of waterways, floodplains and wetlands

4. SCOPE AND APPLICABILITY

4.1 Scope

In general, a permit from the Watershed District shall be required for activities affecting the course, current, cross section, quantity, or quality of surface water, groundwater or related land resource features within the Coon Creek Watershed. This includes, but is not limited to drainage, conveyance, retention or detention of water, including lakes and wetlands.

4.2 Applicability

The District will require a permit application for all land disturbing activities involving any of the following:

1. Any work within or adjacent to a Public ditch within the Watershed District.
2. Any work in or adjacent to wetlands, lakes or water courses
3. One or more cumulative acres of land disturbance
4. The lands and waters that have been, or may be covered by the regional flood.
5. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Land Uses)
6. Appropriation and use of groundwater
7. High water table, outwash and organic soils
8. High infiltration soils
9. Highly erodable soils
10. Excavation or filling or a combination of excavation and filling of sand or other excavation or fill material including the laying, repairing, replacing or enlarging of a culvert or an underground pipe or facility where it crosses a public ditch or waters of the state.
11. Endangered, Threatened or Special concern species, elements or communities

5. GENERAL POLICY and PROCEDURAL REQUIREMENTS

5.1 Permit Required No land owner or land operator shall receive any of the building; grading or other land development permits required for land disturbance activities without first meeting the requirements of this rule prior to commencing the proposed activity.

5.2 Treatment to the Maximum Extent Practicable The intent and requirements of this rule to reduce the discharge of pollutants from stormwater must be pursued to the maximum extent practicable (MEP).

A proposed plan/ permit application has reduced the discharge of pollutants to the MEP when the Board finds that the application has made a good faith effort in meeting all of the following requirements:

1. The proposed plan is capable of being done from an engineering point of view.
2. The proposed plan is in accordance with accepted engineering standards and practices.
3. The proposed plan is consistent with reasonable requirements of the public health safety and welfare.
4. The proposed plan is environmentally preferred based on a review of social, economic and environmental impacts, and

5. The proposed plan creates no unusual problems.

5.3 Pre-Application Meeting

Prior to applying for approval of a permit required under these rules, an applicant may have the application reviewed by the District staff at a pre-application meeting

5.4 Application

Any person undertaking any activity for which a permit is required by these rules shall, before commencing work, submit to the District a permit application, engineering design data and such other required information so that the District may determine whether the proposed activity is in compliance with the criteria established by these rules.

5.5 Submittals

All applications for a permit shall include the following information, unless the submission requirements are modified or waived:

1. Applicant's name, address and phone number; and his/her interest in the property (e.g. owner/developer/consultant)
2. The owners name and address, if different from the applicant.
3. Project Name, address and city
4. Section in which the project is located.
5. Brief description of the proposed project purpose.
6. A \$10.00 permit application fee
7. A site plan showing:
 - a. Property lines
 - b. Delineation of lands in which the applicant has an ownership or legal interest
 - c. Existing and proposed elevation contours including the existing runout elevations and flow capacity of all water resource features
8. The required exhibits for addressing each water resources identified in Section 9 of these rules

Permit application forms may be obtained from the District office or at the District's Internet Web site.

5.6 Timing of Applications and Board Meetings

Complete applications shall be submitted to the District's office by noon, at least twelve and one half (12 ½) calendar days prior to the regularly scheduled Board meeting date.

The Board of Managers holds regularly scheduled meetings on the second and fourth Monday of each month.

5.7 Authorization to Enter and Inspect Property

The application for a permit shall be deemed authorization for District staff to enter and inspect the property that is subject to application.

6.0 FEES AND SECURITY ESCROWS

6.1 Policy

The District finds that it is in the public interest to conserve the District's water resources by assuring compliance with its rules. Requiring applicants to pay fees for permit administration, review, project inspection and to provide a bond or other surety to secure performance of permit conditions, is an effective way to assure rule compliance and water resource conservation.

The Board of Managers by resolution will establish a schedule of fees and performance sureties that may be amended from time to time to reflect the costs of providing such services or covering potential liabilities to the District. The District will maintain an accounting of all deposits made under this rule. No interest will be paid to applicants for funds held in deposit.

6.2 Fees

The District will charge the following fees:

1. Application Fees: \$10.00 fee charged for processing permit applications

2. Review and Inspection Fee: Fee charged for review and inspection work performed by District staff on permit applications. Fee will be reviewed and established by the Board of Managers annually.

6.3 Government Agencies Exempt from Fees

The above fees will not be charged to the federal government, the State of Minnesota or a political subdivision of the State of Minnesota.

6.4 Escrows

The District will collect the following escrows from the applicant before a permit is issued. Escrow amounts will be reviewed and established annually by the Board of Managers.

1. Performance Escrow: Escrow collected to ensure performance of permit requirements.

2. Wetland Escrow: Escrow collected to ensure replacement of mitigated wetlands.

7.0 PERMIT APPLICATION REVIEW PROCEDURE

7.1 Policy

Permit applications meeting the requirements of Section 5 shall be submitted by the Watershed District Staff to the Board of Managers for public review in accordance with the standards of Section 9

7.2 Determination of Whether the

Within 15 days following receipt of any permit application, the District Administrator shall determine whether such application

Application is Complete

is complete. An application is complete if:

1. All of the information required on the permit application and by these rules has been submitted.
2. The required information is free of significant material errors or omissions.
3. The applicant or the applicant's agent has made a good faith effort to comply with the rules, regulations and standards of the District.

If the District Administrator determines that the application is not complete, the Administrator or Engineer shall notify the applicant in writing via a notice of application status specifying the deficiencies of the application. The Board, Administrator and staff may take no further action on the application until the deficiencies are remedied.

7.3 Remedy of Deficiencies

Following receipt of the notice of application deficiencies from the administrator, the applicant shall have 60 days to submit the information requested by the District. The failure of the applicant to submit such information shall be deemed as a withdrawal of the permit application.

7.4 Timing of Board Review and Board Actions

All complete permit applications shall be reviewed and acted upon by the Board of Managers at its next regularly scheduled meeting.

The Board may approve, deny, or table an application. The Board of Managers will review applications that have been tabled after all stipulations have been addressed, unless a significant material change to the application is proposed. If a significant material change has occurred to the proposed project and plans, the application may be forwarded to the Board for review.

7.5 Stipulations and Variances

The Board may also make the permit conditional on specific stipulations, or grant variances to the provisions of the District rules, regulations and policies.

- Stipulations are intended to be site-specific requirements for meeting the policies and goals of the District.
- Variances are intended to provide relief where strict compliance with the rules, regulations and policies of the District create an undue hardship.

7.6 Staff Report-Findings and Conclusions

Prior to the public review, the staff shall file a staff report with the Board of Managers and make a copy available to the applicant or applicant's contact. The staff report shall include findings and conclusions of the application's consistency with the

District's approval standards (Section 9).

7.7 Presentation of Information

At the public review of the permit application, the District staff shall present information concerning pertinent application considerations and the standards set out in the District's Comprehensive Management Plan, rules and regulations, and associated policy and guidance documents.

7.8 Record of Review

The District Administrator shall ensure that the proceedings of the review are recorded. A copy of the review record may be requested of any person upon application to the District and payment of a fee for transcription, or on order of the Board of Managers. The record shall consist of:

1. The portion of the minutes approved by the Board of Managers addressing the application;
2. All applications, exhibits and papers submitted;
3. All staff reports prepared.

7.9 Notice of Application Status

Pursuant to determination of an application's incompleteness (section 7.2) or Board action (section 7.4) the applicant shall be notified of the status of his or her permit application and the requirements for further action or review.

The Notice of Permit Application Status shall contain:

1. The name and address of the owner or applicant
2. The address of the owner or applicant as it appears on the permit application
3. The Permit Application Number (PAN) given to the project by the District
4. A statement specifying the action taken by the Board of Managers (Approve, Tabled, Denied) and the date on which that action was taken
5. A listing of the issues or concerns that led to the Board action
6. A statement specifying the information, material and or actions which the applicant must provide to the District to proceed with the permit review and potentially obtain a permit

8.0 REQUIREMENTS

8.1 Bridges and Culverts

All bridges and culverts are the responsibility of the owner

No bridge or culvert for the disposition of storm water shall be constructed, reconstructed or laid without approval of the Board as to its location, size and elevation and a permit for the installation thereof from the Board. Plans and specifications for

all proposed bridges and culverts shall be submitted to the managers when an application for a permit is filed.

Water inlets, culvert openings and bridge approaches shall have adequate shoulder and bank protection in order to minimize soil erosion.

8.2 Buffer Strips

Buffer strips are strongly encouraged and may be required of:

1. All proposed development except for that development which meets waiver or variance criteria
2. All surface mining operations
3. All agricultural operations constructing new ditches
4. All parcels of land, structures, and activities that are causing or contributing to:
 - a. Pollution, including nonpoint source pollution, of the waters of the District
 - b. Erosion or sedimentation of stream channels
 - c. Degradation of aquatic or riparian habitat

The required width for all natural buffers (i.e., the base width) shall be a minimum of 15 feet, with the requirement to expand the buffer depending on the character of the water resource

Water resource character	Total Buffer Strip Width
Type 3, 4, or 5 wetlands	25 Feet
Lakes	
Ditches or watercourses of stream order 3,4,5	
Type 1, 2, 6, 7 or 8 wetlands	15 Feet
Ditches or watercourses of stream order 1, 2.	

When buffer strips are required, a buffer plan shall be submitted in conjunction with the required grading plan, and the natural buffer should be clearly delineated on the final grading plan.

Permanent boundary markers, in the form of signage approved by the Coon Creek Watershed District, should be installed prior to final approval of the required clearing and grading plan.

8.3 Infiltration

At a minimum, recharge from the one-inch storm from impervious surfaces shall be infiltrated

Infiltration shall not be allowed within a one-year travel zone of a public well as determined by the municipal well-head protection plan.

Unless determined by the District to be exempt or granted a waiver, the following shall be addressed for stormwater management at all sites:

1. Stormwater volume management practices shall be the equivalent of infiltrating the first inch of precipitation
2. These practices should seek to utilize pervious areas for stormwater treatment and to infiltrate stormwater runoff from driveways, sidewalks, rooftops, parking lots and landscaped areas to the maximum extent practical to provide treatment for both water quantity and quality.

Soil Series	Soil Texture	Hydrologic Soil Group	Infiltration Rate (in/hr)
*Alluvial	Loamy fine sand	D	<0.2
*Anoka	Loamy fine sand	A	0.8 / 1.63
*Becker	Very fine sandy loam	B	0.3 / 0.6
*Blomford	Loamy fine sand	D/B	<0.2 / 0.6
*Braham	Loamy fine sand	B	0.3 / 0.6
*Cathro	Muck (Sapric)	D/A	<0.2 / 1.63
*Dickman	Sandy loam	B	0.3 / 0.6
Duelm	Loamy coarse sand	A	0.8 / 1.63
*Hayden	Fine sandy loam	B	0.3 / 0.6
Hubbard	Coarse sand	A	0.8 / 1.63
Isan	Sandy loam	D/B	<0.2 / 0.6
Isanti	Fine sandy loam	D/B	<0.2 / 0.6
*Kratka	Loamy fine sand	D/B	<0.2 / 0.6
Lino	Loamy fine sand	A	0.8 / 1.63
Markey	Muck (Sapric)	D/A	<0.2 / 1.63
Marsh		D/A	<0.2 / 1.63
*Meehan	Sand	A	0.8 / 1.63
Millerville	Muck (Hemic)	D/A	<0.2 / 1.63
Nymore	Loamy sand	A	1.63
Rifle	Muck (Hemic)	D/A	<0.2 / 1.63
*Rondeau	Muck (Sapric)	D/A	<0.2 / 1.63
Sartell	Fine sand	A	0.8 / 1.63
Seelyeville	Muck (Sapric)	D/A	<0.2 / 1.63
Soderville	Fine sand	A	0.8 / 1.63
Zimmerman	Fine sand	A	0.8 / 1.63

NOTE:* Denotes a soil that is found infrequently.

8.4 Lake & Wetland Management

To provide for coordinated management of surface waters a developer of land shall submit to the Storm Water Pollution Prevention Plan (SWPPP) which is in conformity with Municipal, District and State Standards.

Permits for improvements by riparian owners of the beds, banks and shores of lakes, streams, ditches and wetlands is required before such work may be done.

8.5 Nondegradation

It is the policy of the District to implement the nondegradation requirements of the NPDES program using 1988 as the baseline year

If regulatory, hydrologic, topographic or landscape conditions (e.g. drainage sensitive uses, TMDL or nondegradation requirements) warrant greater control than that provided by the minimum control requirements, the District reserves the right to impose additional requirements deemed necessary to control the volume, timing and rate of runoff.

For new development, structural stormwater treatment practices shall be designed to remove **80%** of the average annual post development total suspended solids (TSS) unless otherwise specified by a nondegradation requirement.

8.6 Pipeline and Utility Crossings

All plans for pipelines shall be submitted to the District for its comment, review and recommendations as to the effect of the construction on the waters of the district and the adequacy of erosion and sediment control during and after construction.

All placement or replacement of pipelines or utility lines that cross ditches or waterways of the District shall be placed so that the top elevation is at least 4 feet below the approved low elevation of ditch or waterway in order to avoid or minimize damage to the line during maintenance or repair of the ditch.

8.7 Pretreatment

All stormwater treatment practices shall have an acceptable form of water quality pretreatment, in accordance with the pretreatment requirements found in the current Minnesota stormwater design manual.

All stormwater runoff generated from new development shall not discharge untreated stormwater directly into jurisdictional wetlands or local water bodies without adequate treatment. Where such discharges are proposed, the impact proposed on wetland function shall be assessed using a method acceptable to

the District. In no case shall the impact on wetland function or value be allowed to degrade the current function as identified in the District’s Comprehensive Water Management Plan.

All discharges into wetlands and waterbodies must be pretreated by an appropriate best management practice.

Waterbody	Hydrology	BMP
1 st 2 nd order stream		Sedimentation basin or equivalent designed for 0.5 inch
Type 1,2 6,7 wetland	Temporarily flooded Saturated Seasonally flooded or saturated	Sedimentation basin designed for 0.5 inch
3 rd , 4 th 5 th order stream		NURP/Walker Pond or equivalent sized for 2.5 inch rainfall
Type 3,4,5 wetland or Lake	Permanently flooded Artificially flooded	NURP/Walker Pond or equivalent sized for 2.5 inch rainfall

8.8 Rate Control

Proposed projects that affect the conveyance capacity of channels or crossings shall document that equivalent hydraulic capacity is provided. When hydraulic equivalents are not desired or feasible for the proposed project, the District will review hydraulic information prepared by the sponsor which details easement acquisition or permission for increased flood levels (upstream or downstream of the project) emergency overflow elevations, and assessment of the adequacy of the outlet as generally described in M.S. 103E

All site designs shall establish stormwater management practices to control the peak flow rates of stormwater discharge associated with the 1, 10, 25 and 100 year design storms and reduce the generation of stormwater.

Stormwater plans must ensure that discharge rates from the proposal are controlled such that within Drainage-Sensitive Uses Areas the post-development 100-year peak flow rate shall not exceed predevelopment 25-year peak flow rate (by subwatershed)

In Non-Drainage Sensitive Uses Areas the post-development 100-year peak flow rate shall not exceed predevelopment 100-year peak flow rate (by subwatershed)

8.9 Volume Control All stormwater management practices will be designed so that the specific storm frequency storage volumes (e.g. recharge, water quality, channel protection, 10 year and 100 year) as identified in the current Minnesota Pollution Control Agency Stormwater Design Manual are met, unless the District grants the applicant a waiver or the applicant is exempt from such requirements.

Stormwater volume management practices shall be the equivalent of infiltrating the first inch of precipitation. These practices should seek to utilize pervious areas for stormwater treatment and to infiltrate stormwater runoff from driveways, sidewalks, rooftops, parking lots and landscaped areas to the maximum extent practical to provide treatment for both water quantity and quality.

In addition, if regulatory, hydrologic, topographic or landscape conditions (e.g. drainage sensitive uses, TMDL or nondegradation requirements) warrant greater control than that provided by the minimum control requirements, the District reserves the right to impose additional requirements deemed necessary to control the volume, timing and rate of runoff.

9.0 APPROVAL STANDARDS

All permit applicants must comply with the applicable standards set forth in this section:

9.1 DRAINAGE

Policy

It is the policy of the District to:

1. Maintain ditch and conveyance systems within the watershed to fulfill the role identified within the District's Comprehensive Management Plan and the drainage law.
2. Promote, preserve and enhance the water and related land resources of the Coon Creek Watershed.
3. Protect the water and related land resources of the Coon Creek Watershed from the adverse effects resulting from poor or incompatible land use activities.
4. Encourage compatibility between land use activities upstream and down stream.
5. Regulate land-disturbing activities affecting the course, current, cross section and quality of ditches and water courses.
6. Regulate improvements by riparian property owners of the bed, banks, and shores of lakes, streams, and wetlands for preservation and beneficial use.
7. Protect stream channels from degradation.
8. To regulate crossings of ditches and watercourses in the District to maintain channel profile stability and conveyance capacity.

Scope and Applicability

This policy, regulation and criteria apply to:

1. All public and private ditches within the Watershed District.

Regulation

This permit requirement is in addition to any procedures that may be required for public ditches under Minnesota Statutes 103E or other ditch law.

No person shall commence a land disturbing activity in or adjacent to a ditch or conveyance without:

1. Submitting plans for work within and/or adjacent to public or private ditches, or water courses and
2. Obtaining a permit from the District.

No person shall construct, improve, repair or alter the hydraulic characteristics of a bridge profile control or culvert structure on a creek, public ditch or major watercourse in the District, without

first obtaining a permit from the District.

Every person owning property through which a ditch or watercourse passes, or such person's lessee, shall keep and maintain that part of the ditch or watercourse within the property, free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, obstruct or significantly retard the flow of water, or access for maintenance or repair of the watercourse.

In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse.

The natural drainage system shall be used as far as is feasible for storage and flow of runoff. Stormwater drainage may be discharged to wetlands, retention basins or other treatment facilities. Temporary storage areas or retention basins scattered throughout developed areas shall be encouraged to reduce peak flow, erosion damage, and construction cost.

The widths of a constructed waterway shall be sufficiently large to adequately channel runoff from a ten (10) year storm. Adequacy shall be determined by the expected runoff when full development of the drainage area is reached.

No fences or structures shall be constructed across the waterway that will reduce or restrict the flow of water.

The banks of the waterway shall be protected with permanent vegetation.

The gradient of the waterway bed should not exceed a grade that will result in a velocity that will cause erosion of the banks of the waterway.

The bed of the waterway should be protected with turf, sod, or rip-rap. If turf or sod will not function properly, rip-rap shall be used. Rip-rap, in conformity with engineering specifications, shall consist of MnDOT 3601 material Class A with filter blanket Type 1.

If the flow velocity in the waterway is such that erosion of the turn side wall will occur and said velocity cannot be decreased by velocity control structures, then rip-rap shall replace turf on the

side walls.

Sediment Control of Waterways

To prevent sedimentation of waterways, pervious and impervious sediment traps and other sediment, control structures shall be incorporated throughout the contributing watershed.

Temporary pervious sediment traps could consist of a construction of bales of hay, per plan requirements. Such structures would serve as temporary sediment control features during the construction stage of development. Development of housing and other structures shall be restricted from the area on either side of the waterway required to convey a one hundred (100) year storm.

Permanent impervious sediment control structures consist of sediment basins (debris basins, desilting basins, or silt traps) and shall be utilized to remove sediment from runoff prior to its disposal in any permanent body of water or stream.

Standards

1. Public ditches shall be inspected using the criteria in the District's Comprehensive Management Plan.
2. Prior to realignment or repair, alternative measures to conserve, allocate and use the water should be considered (versus removing it from the area and watershed.)
3. The need for repair of the ditch shall be determined.

A permit application for construction, improvement or repair of a public or private drainage system in the District must:

1. Identify all public drainage ditches on the site, including ditch number and year of establishment;
2. Identify the acres of agricultural land directly affected by the ditch.
3. Identify the trend in land use for the affected drainage area.
4. Determine the drainage needs and flooding characteristics for land upstream and downstream.
5. Determine the primary role of the ditch in providing for agricultural drainage and/or stormwater conveyance.
6. Provide the approved/as-built elevations and grades of the public ditch through the subject property.
7. Demonstrate that such proposed activity will not adversely impact down stream water quality or quantity.
8. Provide stable channel and outfall.
9. Comply with all federal, state and District wetland protection rules and regulations.
10. Demonstrate concurrence with regional pond or subdivision

drainage plans approved by the District, if applicable.

11. If a drainage system is proposed to outlet a landlocked basin, provide sufficient dead storage volume to retain back-to-back 100-year, twenty-four-hour rainfalls and runoff.

Bridge and Culvert Crossings. Crossings must:

1. Provide equivalent hydraulic capacity as existing condition.
2. Retain existing navigational capacity.
3. Not adversely affect water quality.
4. Represent the minimal impact solution to a specific need with respect to all other alternatives.
5. Be constructed to allow for future erosion, scour and sedimentation considerations.

Exhibits

The applicant must submit with its permit application the following.

For construction, improvement or repair of a public or private drainage system:

1. Map showing section of the ditch to be maintained.
2. Depth, in feet, proposed to be dredged.
3. Plan for placement of dredge material
4. Plan for final vegetative cover of dredge. Evidence that the affected property owners have been contacted and will allow access for maintenance purposes.

For construction or installation of crossings:

1. Construction details showing:
 - (1) Existing and proposed flow line (invert) elevations.
 - (2) End details with flared end sections, wingwalls and/or riprap (energy dissipators).
 - (3) Size and description of structure.
 - (4) Emergency overflow elevation and route.
2. Construction schedule.
3. Narrative describing construction methods.
4. An erosion control plan that complies with these rules.
5. Computations of watershed area, peak flow rates and elevations, and discussion of potential effects on water levels above and below the project area.

9.2 FLOODPLAIN

Policy

It is the policy of the District to

1. To secure safety from floods.
2. To prevent loss of life, property damage, and the losses and risks associated with flood conditions.
3. To preserve the location, character, and extent of natural drainage courses.
4. To preserve the natural integrity of drainage patterns
5. To provide a storm and surface water system capable of handling a 100 year storm.

Scope and Applicability

This policy, regulation and standards apply to:

1. The channel and channel bed and the lands and waters adjoining a wetland, lake or water course that has been, or hereafter may be covered by the 100 year flood.
2. All lands transitional between upland and lowland that are inundated or saturated by surface water or groundwater during the 100 year flood.

Regulation

No person shall alter or fill below the 100-year critical flood elevation of any waters, wetlands, and ditch or conveyance system within the Watershed, without first obtaining a permit from the District.

Proposed projects that affect the conveyance capacity of channels or crossings shall document that equivalent hydraulic capacity is provided. When hydraulic equivalents are not desired or feasible for the proposed project, the District will review hydraulic information prepared by the sponsor which details easement acquisition or permission for increased flood levels (upstream or downstream of the project) emergency overflow elevations, and assessment of the adequacy of the outlet as generally described in M.S. 103E

Standards

1. The existence of floodplain on the property must be determined.
2. Proposed floodplain impacts must be identified and quantified
 - a. Such encroachment cannot lie within the floodway and can not result in a violation of State or District floodplain, shoreland or wetland policies.
 - b. Construction or development subject to flood damage will have a minimum floor elevation of at least 1 foot above the 100-year flood profile.
 - c. Any structures, facilities, or embankments within the floodplain shall be capable of passing the 100-year flood

without increasing the elevation of the 100-year flood profile or creating excessive velocities as determined by the District.

3. The floodplain storage volume after encroachment is equal to or greater than the floodplain storage volume prior to encroachment within the relevant reach (Compensatory storage must be provided).

Exhibits

The applicant must submit with its permit application the following:

1. Site plan showing boundary lines, delineation and existing elevation contours of the work area, ordinary high water level, and 100-year critical flood elevation. All elevations shall be referenced to NGVD (1929 datum)
2. Grading plan showing any proposed elevation changes
3. Preliminary plat of any proposed subdivision
4. Determination by a registered professional engineer of the 100-year critical flood elevation before and after the proposed activity.
5. Computation of the change in flood storage capacity as a result of the proposed alteration or fill
6. Erosion and sediment control plan which complies with these Rules
7. Soil boring logs and report if available

9.3 GROUNDWATER

Policy

It is the policy of the District to

1. To implement the purpose and intent of the water quality provisions of the District's Comprehensive Management Plan as they may relate to ground water.
2. To maintain the present and natural rate of recharge to the surficial aquifer, and when possible, enhance the rate of recharge.
3. To ensure a dependable water supply and ensure the integrity of natural drainage patterns.
4. To protect fresh water supplies from the dangers of drought, overdraft, pollution, or mismanagement.
5. To define the roles and responsibilities of governmental units in implementing land use controls for the protection of groundwater quality
6. To prevent property damage, and the losses and risks associated with flood conditions that may arise from high water tables.

Scope and Applicability

This policy, regulation and standards apply to:

1. All wetlands
2. All high water table outwash and organic soils
3. All high infiltration soils
4. All appropriation of groundwater

Regulation

A person must submit a permit application and obtain a permit from the District for appropriation or disposal of groundwater.

The withdrawal of ground and surface water and the location of the place of discharge thereof shall conform to the standards of the Minnesota Pollution Control Agency and the Department of Natural Resources

Consider alternative measures to conserve, allocate and use ground water, versus removing the water from the area and watershed.

Demonstrate that at a minimum, recharge from the one inch storm from impervious surfaces will be infiltrated.

Infiltration shall not be allowed within a one year travel zone of a public well as determined by the municipal well-head protection plan

Standards

An applicant must demonstrate compliance with the following standards:

1. The quality of water infiltrated to the water table or surficial aquifer shall remain unchanged or improved by the land disturbance activity.
2. Low floors must be at least 2 feet above high water table elevation or mottled soils, whichever is higher, unless the applicant can show that the potential for property damage, and the losses and risks associated with high water table conditions are nonexistent or acceptably remote or as required by local ordinance
3. Ground water may not be discharged in a manner that causes erosion or flooding of the site or receiving channels or a wetland.
4. Water pumped from a project site shall be treated by temporary sedimentation basins, grit chambers, sand filters or other appropriate controls designed and used to remove particles of 100 microns or greater for the highest pumping rate.
5. The withdrawal from the Surficial Aquifer and the location of the place of discharge thereof shall conform to the standards of the Minnesota Pollution Control Agency and the

Department of Natural Resources.

Exhibits

The applicant must submit with its permit application the following:

1. A grading plan showing final grades and low floor elevation of any structures proposed for the site
2. The infiltration rates and the dewatering site and place of discharge
3. The location, rate, and place of discharge
4. A geotechnical report that addresses the availability and depth to ground water and soil mottling.

9.4 SOILS AND EROSION CONTROL

Policy

It is the policy of the District to:

1. To reduce the siltation into, and the pollution of water bodies and streams.
2. To guide, regulate and control the design, construction, use and maintenance of development to promote water quality and prevent pollution.
3. To control and minimize pollution caused by erosion and sedimentation.
4. To reduce siltation to, and the pollution of, water bodies and streams.

Scope and Applicability

This policy, regulation and standards apply to:

1. Land disturbing activities on lands within the Coon Creek Watershed District of 1 acre or more of cumulative disturbance.
2. Land disturbing activities within 100 feet of 3rd, 4th or 5th order streams, lakes, or type 3, 4, 5 wetlands
3. Land disturbing activities within 50 feet of 1st and 2nd order streams, or type 1, 2, 6 or 7 wetlands
4. Those land disturbing activities involving excavation or filling or a combination of excavation and filling of dirt, sand or other excavation or fill material including the laying, repairing, replacing or enlarging of an underground pipe or facility where it crosses a public ditch or waters of the state.

Regulation

A person must submit a permit application and obtain a permit from the District incorporating an erosion control plan before commencing an activity described in the scope and applicability section above.

Sediment Control of Waterways

1. To prevent sedimentation of waterways, pervious and impervious sediment traps and other sediment, control structures shall be incorporated throughout the contributing watershed.
2. Temporary pervious sediment traps could consist of a construction of bales of hay, per plan requirements. Such structures would serve as temporary sediment control features during the construction stage of development. Development of housing and other structures shall be restricted from the area on either side of the waterway required to convey a one hundred (100) year storm.
3. Permanent impervious sediment control structures consist of sediment basins (debris basins, desilting basins, or silt traps) and shall be utilized to remove sediment from runoff prior to its disposal in any permanent body of water or stream.

Soils Information: If a stormwater management control measure depends on the hydrologic properties of soils (e.g., infiltration basins), then a soils report shall be submitted. The soils report shall be based on on-site boring logs or soil pit profiles. The number and location of required soil borings or soil pits shall be determined based on what is needed to determine the suitability and distribution of soil types present at the location of the control measure.

Exceptions

The following land-disturbing activities are excepted from the above requirements:

1. Any emergency activity that is immediately necessary for the protection of life, property, or natural resources
2. Existing nursery or agricultural operations conducted as a permitted main or accessory use.

Standards

An applicant for an erosion and sediment control permit must demonstrate compliance with the following standards:

1. The Soils affected by the proposal must be identified
2. Soils with a soil-erodibility factor of 0.15 or greater need special attention through the use of best management practices
3. Disturbed areas must be stabilized with vegetation within 14 days.
4. Adjacent properties must be protected from sediment deposition.
5. Sedimentation, skimming, and nutrient removal are to be provided to the maximum extent practical for stormwater runoff prior to discharge to waters of the District. It is understood that there are occasions when it may be necessary to use a portion of a protected basin to serve as a sediment

trap and to provide skimming facilities.

6. Plans and specifications must conform to the provisions of all pertinent Minnesota Pollution Control Agency Manuals
7. All erosion and sediment controls proposed for compliance must be in place before any land-disturbing activity begins.
8. Any area of land from which the natural vegetative cover has been either partially or wholly cleared or removed by development activities shall be revegetated within 14 days from the substantial completion of such clearing and construction. The following criteria shall apply to revegetation efforts:
 - a) Reseeding must be done with an annual or perennial cover crop accompanied by placement of straw mulch or its equivalent of sufficient coverage to control erosion until such time as the cover crop is established over ninety percent (90%) of the seeded area.
 - b) Replanting with native woody and herbaceous vegetation must be accompanied by placement of straw mulch or its equivalent of sufficient coverage to control erosion until the plantings are established and are capable of controlling erosion.
 - c) Any area of revegetation must exhibit survival of a minimum of seventy-five percent (75%) of the cover crop throughout the year immediately following revegetation. Revegetation must be repeated in successive years until the minimum seventy-five percent (75%) survival for one (1) year is achieved.

Exhibits

The applicant must submit with its permit application the following:

1. A natural resource map identifying soils, forest cover, and resources protected under other provisions of this rule, city rule or state statute
2. A sequence or construction of the development site, including; clearing and grubbing, rough grading, construction of utilities, infrastructure, and buildings; and final grading and landscaping. Sequencing shall identify the expected date on which clearing will begin and the duration of exposure of cleared areas, areas of clearing, installation of temporary erosion and sediment control measures, and establishment of permanent vegetation.
3. All erosion and sediment control measures necessary to meet the objectives of this local regulation throughout all phases of construction and after completion of development of the site. Depending upon the complexity of the project, the drafting and implementation of intermediate plans may be required at

the close of each season.

4. Seeding mixtures and rates, types of sod, method of seed bed preparation, expected seeding dates, type and rate of fertilizer application, and kind and quantity of mulching for both temporary and permanent vegetative control measures
5. Provisions for maintenance of control facilities, including easements and estimates of the cost of maintenance.
6. Explanation of how the site will be stabilized after construction, but who will be responsible for the maintenance of vegetation at the site and what practices will be employed to ensure that adequate vegetative cover is preserved.

9.5 STORMWATER

Policy

It is the policy of the District to

1. To promote, preserve and enhance the water and related land resources of the Coon Creek Watershed.
2. To implement the nondegradation requirements of the NPDES program using 1988 as the baseline year and load allocation reductions or management practices noted in a District adopted Total Maximum Daily Loads (TMDLs) implementation plan
3. To protect water and related land resources of the Coon Creek Watershed from the adverse effects resulting from poor or incompatible land use activities.
4. To implement applicable TMDLs
5. To encourage compatibility between land use activities upstream and down stream and natural resource capacity.
6. To regulate land-disturbing activities affecting the course, current or cross section of ditches and water courses.
7. Regulate improvements by riparian property owners of the bed, banks, and shores of lakes, streams, and wetlands for preservation and beneficial use.

Scope and Applicability

This policy, regulation and standards apply to:

1. Land disturbing activities of 1 acre or greater of cumulative impact
2. Work adjacent to lakes or wetlands,
3. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Land Uses)

Regulation

A person must submit a permit application and obtain a permit from the District incorporating a stormwater plan before commencing an activity described in the scope and applicability section above.

Unless determined by the District to be exempt or granted a waiver, the following shall be addressed for stormwater management at all sites:

1. All site designs shall establish stormwater management practices to control the peak flow rates of stormwater discharge associated with the 1, 10, 25, and 100 year design storms and reduce the generation of stormwater.
2. All stormwater management practices will be designed so that the specific storm frequency storage volumes (e.g. recharge, water quality, channel protection, 10 year and 100 year) as identified in the current Minnesota Pollution Control Agency Stormwater Design Manual are met, unless the District grants the applicant a waiver or the applicant is exempt from such requirements.
3. Stormwater volume management practices shall be the equivalent of infiltrating the first inch of precipitation
4. These practices should seek to utilize pervious areas for stormwater treatment and to infiltrate stormwater runoff from driveways, sidewalks, rooftops, parking lots and landscaped areas to the maximum extent practical to provide treatment for both water quantity and quality.
5. In addition, if regulatory, hydrologic, topographic or landscape conditions (e.g. drainage sensitive uses, TMDL or nondegradation requirements) warrant greater control than that provided by the minimum control requirements, the District reserves the right to impose additional requirements deemed necessary to control the volume, timing and rate of runoff.
6. Applicants shall consult the Minnesota Pollution Control Agency Stormwater Design Manual for guidance on the factors that determine site design feasibility when selecting a stormwater management practice. Stormwater management practices for a site shall be chosen based on the physical conditions of the site. Among the factors that should be considered:
 - Topography
 - Maximum Drainage Area
 - Depth to Water Table
 - Soils
 - Slopes
 - Terrain
 - Head
 - Location in relation to environmentally sensitive features or urban areas.

Standards

1. Stormwater leaving the site must be routed to a public

drainage system

2. Drainage sensitive uses downstream from the proposed site must be accounted for and their ability to discharge in a timely manner must be assured.
3. Stormwater plans must ensure that discharge rates from the proposal are controlled such that within Drainage-Sensitive Uses Areas the post-development 100-year peak flow rate shall not exceed predevelopment 25-year peak flow rate (by subwatershed)
4. In Non-Drainage Sensitive Uses Areas the post-development 100-year peak flow rate shall not exceed predevelopment 100-year peak flow rate (by subwatershed)
5. The proposal must infiltrate the first one inch of precipitation

Exhibits

The applicant must submit with its permit application the following:

1. Topographic Base Map: A 1" = 200' topographic base map of the site which extends a minimum of 50 feet beyond the limits of the proposed development and indicates existing surface water drainage including streams, ponds, culverts, ditches, and wetlands; current land use including all existing structures; locations of utilities, roads, and easements; and significant natural and manmade features not otherwise shown.
2. Calculations: Hydrologic and hydraulic design calculations for the pre-development and post-development conditions for the design storms specified in this rule. Such calculations shall include
 - a. Description of the design storm frequency, intensity and duration,
 - b. Time of concentration,
 - c. Soil Curve Numbers or runoff coefficients,
 - d. Peak runoff rates and total runoff volumes for each watershed area,
 - e. Infiltration rates determined by site flooding or double ring infiltrometer, where applicable,
 - f. Culvert capacities,
 - g. Flow velocities,
 - h. Data on the increase in rate and volume of runoff for the design storms referenced in the Stormwater Design Manual,
 - i. Documentation of sources for all computation methods and field test results.
3. Soils Information: If a stormwater management control measure depends on the hydrologic properties of soils (e.g., infiltration basins), then a soils report shall be submitted. The

soils report shall be based on on-site boring logs or soil pit profiles. The number and location of required soil borings or soil pits shall be determined based on what is needed to determine the suitability and distribution of soil types present at the location of the control measure.

4. Maintenance Plan: The design and planning of all stormwater management facilities shall include detailed maintenance and repair plan as described in section 13 of these rules.
5. Landscaping plan: The applicant must present a detailed plan for management of vegetation at the site after construction is finished as described in section 13.2 of these rules
6. Maintenance Easements: The applicant must ensure access to all stormwater treatment practices at the site for the purpose of inspection and repair by securing all the maintenance easements needed on a permanent basis. These easements will be recorded with the plan and will remain in effect even with transfer of title to the property.
7. Erosion and Sediment Control Plans for Construction of Stormwater Management Measures: The applicant must prepare an erosion and sediment control plan for all construction activities related to implementing any on-site stormwater management practices.

9.6 WATER QUALITY

Policy

It is the policy of the District to

1. To control and minimize pollution caused by erosion and sedimentation.
2. To reduce siltation to, and the pollution of water bodies and streams.
3. To preserve and improve the quality of the lakes and wetlands within the watershed
4. Improve the quality of the surface and subsurface discharges to the lakes and wetlands within the watershed by limiting nutrients and other contaminants
5. To pursue non-degradation of the waters of the District

Scope and Applicability

This policy, regulation and standards apply to:

1. Land disturbing activities of 1 acre or more of cumulative disturbance. Projects containing greater than or equal to 1 acre of impervious surface shall contain storm-water detention, erosion and sediment control and pollution prevention BMPs.
2. Work adjacent to or discharging into wetlands, lakes or water courses

Regulation

A person must submit a permit application and obtain a permit

from the District incorporating a stormwater plan before commencing an activity described in the scope and applicability section above.

Unless determined by the District to be exempt or granted a waiver, the following shall be addressed for water quality management at all sites:

All discharges into wetlands and waterbodies must be pretreated by an appropriate best management practice.

Waterbody	Hydrology	BMP
1 st 2 nd order stream		Sedimentation basin or equivalent designed for 0.5 inch
Type 1,2 6,7 wetland	Temporarily flooded Saturated Seasonally flooded or saturated	
3 rd , 4 th 5 th order stream		NURP/Walker/Wet Pond or equivalent sized for 2.5 inch rainfall
Type 3,4,5 wetland or Lake	Permanently flooded Artificially flooded	

The proposal shall not cause extreme fluctuations of water levels or temperature changes in wetlands or streams.

The proposal shall not detrimentally affect the existing water quality of the receiving water.

All stormwater management practices shall be designed to convey stormwater to allow for the maximum removal of pollutants and reduction of flow velocities. These shall include, but not be limited to:

- a. Maximizing of flowpaths, where appropriate, from inflow points to outflow points
- b. Protection of inlet and outfall structures
- c. Elimination of erosive flow velocities
- d. Providing of underdrain systems, where applicable

For new development, structural stormwater treatment practices shall be designed to remove **80%** of the average annual post development total suspended solids (TSS) unless otherwise specified by a TMDL or nondegradation requirement.

All stormwater treatment practices shall have an acceptable form

of water quality pretreatment, in accordance with the pretreatment requirements found in the current stormwater design manual.

All stormwater runoff generated from new development shall not discharge untreated stormwater directly into jurisdictional wetlands or local water bodies without adequate treatment. Where such discharges are proposed, the impact proposed on wetland function shall be assessed using a method acceptable to the District. In no case shall the impact on wetland function or value be allowed to degrade the current function as identified in the District's Comprehensive Water Management Plan.

Stormwater discharges to critical areas with sensitive resources or where a TMDL is in place may be subject to additional performance standards, or may need to utilize or restrict certain stormwater management practices.

Stormwater discharges from land uses or activities with higher potential pollutant loadings, may require the use of specific structural STPs and pollution prevention practices.

Standards

It is presumed that a Stormwater Treatment Practices (STP) complies with this performance standard if it is:

1. Sized to capture the prescribed water quality volume
2. Designed in accordance with specific design standards outline in an approved stormwater design manual
3. Constructed properly
4. Maintained properly

Exhibits

The applicant must submit with its permit application the exhibits for 9.5 Stormwater

9.7 WETLANDS

Policy

It is the policy of the District to

1. To provide for the protection, preservation, proper maintenance and use of wetlands.
2. To minimize the disturbance to wetlands and to prevent damage from excessive sedimentation, eutrophication or pollution.
3. To protect and enhance the ecological function of wetlands and the benefits and values they provide to society

**Scope and
Applicability**

This policy, regulation and standards apply to:

All lands transitional between upland and lowland that is inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soil conditions, commonly known as hydrophytic vegetation

Regulation

Any person proposing to impact wetland by draining, filling, or excavating must submit a permit application and obtain a permit from the District.

Stormwater drainage may be discharged to wetlands provided appropriate pretreatment of said discharge accomplished. Diversion of stormwater to wetlands shall be considered for existing or planned surface drainage provided such diversion is in compliance with state law and all necessary easements have been obtained. Wetlands used for stormwater shall provide for natural or artificial water level control.

Standards

The Minnesota Wetland Conservation Act (WCA), as amended, and its implementing rules contained in Minnesota Rules chapter 8420, as amended, are incorporated as part of this rule and govern all draining, filling and excavating in wetlands.

Any person proposing to impact a wetland in the District is subject to and must establish compliance with the Wetland Conservation Act, as amended, standards and criteria, including but not limited to sequencing and replacement.

Within area(s) delineated as wetland, the applicant and property owner shall not:

1. Fill or place materials, substances or other objects, nor erect or construct any type of structure, temporary or permanent, except as specified in the Wetland Conservation Act..
2. Drain or cause to be drained through ditching pumping or alteration of the wetlands water source or actions which adversely change the wetlands hydroperiod such that the wetland can become nonwetland, except as specified in the Wetland Conservation Act..
3. Excavate or dig except as specified in the Wetland Conservation Act..
4. Clear vegetation, pond water or alter the landscape position in a manner that results in adverse environmental impact

Discharges into wetlands should not cause extreme fluctuations of water levels. Discharges that exceed the standards below shall be considered and regulated as adverse impact

Wetland Type	-Sedge Meadows -Type 8 -Seasonally Flooded Basins	Scrub-Shrub Wet-Meadows Type 4 &5	-Floodplain forests Type 4 &5	Cultivated hydric soil Sand/gravel pit
Standard				
Storm Bounce	Existing	Existing + 0.5 ft	Existing + 1 ft	No limit
Discharge Rate	Existing	Existing	Existing or less	Existing or less
Inundation on 1-2yr event	Existing	Existing + 1 day	Existing + 2 days	Existing + 7 days
Inundation for 10 yr event	Existing	Existing + 7 days	Existing + 14 days	Existing + 21 days
Run out control	No change	No change	0'-1 ft above RO	0-4 ft above RO

RO= Run Out

Exhibits

The applicant must submit with its permit application the following:

1. A site plan showing property lines and delineation of lands in which the applicant has an ownership or legal interest; existing and proposed elevation contours, including existing runoff elevation and flow capacity of the wetland outlet; and area of the wetland proposed to be filled, drained, or excavated
2. A complete delineation of all existing wetland(s), including data sheets with complete and detailed information on field indicators (soils, vegetation and hydrology) and summary report. Wetland delineations must be performed during the normal growing season for this part of Minnesota. Wetland boundaries must be staked in the field and easily identifiable.
3. The total wetland acres, wetland types and number of jurisdictional wetland basins on the property
4. Identification of existing and proposed watershed for each wetland basin and the depth and duration for all proposed stormwater discharges.
5. The size and nature of proposed impact to each wetlands and the reason the impact is unavoidable shall be identified
6. The wetland dependence of each proposed impact of the project shall be determined.

7. The nature and scope of the appropriate Wetland Conservation Act exemption shall be noted if applicable.
8. Alternatives to avoid and minimize each proposed impact.

9.8 WILDLIFE

Policy

It is the policy of the District to

1. To prevent loss of wildlife and vegetation and the habitats on which they depend.
2. To protect, preserve and manage unique resource areas and unique and/or endangered species of plants and animals that populate these areas from adverse impacts associated with land use change.

Scope and Applicability

This policy, regulation and standards apply to:

1. Endangered species,
2. Threatened species
3. Special concern species, elements or communities

Regulation

No person shall impact an endangered species, threatened species, special concern species or elements, or communities, without first obtaining a permit from the District.

Standards

Applicant must:

1. Establish the presence of endangered, threatened or special concern species or communities on-site and the source of that information.
2. Assess the potential effect on wildlife and vegetation and the habitats on which they depend.
3. The District may require applicant to provide a habitat management plan when the District determines applicant cannot avoid direct or indirect impacts on the habitat in question.

Assessment of significant adverse impacts should be based on the following factors:

1. The amount of vegetation/habitat removal and/or alteration within the development site
2. The amount of habitat of similar type and quality within the development site that remains contiguous
3. The existing and proposed amount of lot coverage
4. The existence of contiguous habitat of similar type and quality on adjoining land
5. Mitigation efforts that directly address the negative effects of the proposed land use on wildlife habitat.

10.0 PERMITS

10.1 Permit Required

All permits when issued shall be signed by the District Administrator, District Engineer or President of the Board

10.2 Permit Scope

A permit issued by the Coon Creek Watershed District shall be valid for a period of one year from the date of issuance unless otherwise suspended, revoked or extended as may be required for sand and gravel mining projects.

Construction work authorized under this permit shall be completed on or before the permits expiration date.

10.3 Permit Extensions

A permit issued under section 10.2 of these rules may be extended for a period of one year by the District Administrator, provided there has been no significant change in the policies, rules or laws of the State of Minnesota or the Coon Creek Watershed District.

To extend a permit as provided under this section, the permittee must apply to the District in writing prior to the permit expiration date, stating the reasons for extension

Permit extensions beyond one year are subject to a review of project progress, reasons for the project being incomplete as well as significant changes in the policies, rules or laws of the State of Minnesota or the Coon Creek Watershed District. In such cases the applicant may be required to reapply for a permit.

10.4 Permit Assignment

A permittee may assign a District permit only upon consent of the Board of Managers to the assignment. Permit assignment does not extend the permit term.

The Board of Managers may grant the assignment of an issued permit if it finds the following conditions have been met:

1. The proposed assignee in writing agrees to assume all the terms, conditions and obligations of the permit as originally issued to the permittee.
2. The proposed assignee is not changing the project as originally issued.
3. There are no violations of the permit conditions as originally issued
4. The District has received from the proposed assignee any required surety to secure performance of the assigned permit.

10.5 Permit

A permit from the Coon Creek Watershed District applies only to

Applicability

the project and the plans and calculations approved by the Board of Managers and cited on the permit. If the design, location or purpose of the project changes you shall contact the District to make sure the changes would not violate District Rules or applicable state law.

10.6 Permit Stipulations

Approval of a permit application by the Board of Managers may include certain stipulations that are required to either receive a permit or must be fulfilled for the proposed project to be in compliance with these rules.

10.7 General Permit Conditions

The following permit conditions are general and are required of all land disturbing activities within the District:

1. The permittee must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit.
2. The permittee shall grant access to the site at all reasonable times during and after construction to authorized representatives of the District for inspection of the work authorized hereunder.
3. The permittee shall utilize best management practices on the project site to minimize the potential for adverse impacts associated with erosion and sedimentation.
4. The District may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you or in support of your permit application proves to have been false, incomplete, or inaccurate.
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.
7. Permittee shall ensure that the contractor has received and thoroughly understands all conditions of this permit.

10.8 As Built Plans Required

All applicants are required to submit actual “as built” plans for any stormwater management practices or ditch repairs or an improvement located on site after final construction is completed. This includes, but is not limited to any changes to the course, current or cross section of public ditch, wetland mitigation sites and structural stormwater treatment practices.

The plan must show the final design specifications for all

stormwater management facilities, wetland mitigation, and modification of public ditches. A final inspection of the project by the District is required before release of any performance escrows can occur.

11.0 COMPLIANCE INSPECTIONS

11.1 Regular Compliance Inspection

Regular inspections of the project site shall be conducted by District personnel. Inspections may occur jointly with other agencies inspecting under other water resource, environmental or safety laws.

11.2 Frequency of Inspections

Inspections may occur:

1. During or immediately following installation of BMPs
2. Following severe storms/critical events
3. Prior to seeding deadlines, particularly in the fall
4. Prior to return of escrows
5. On report of issue or complaint

11.3 Scope of Inspections

Inspections may include, but are not limited to:

1. Reviewing maintenance and repair records;
2. Sampling discharges,
3. Surface water,
4. Groundwater,
5. Material or water in drainage control facilities; and
6. Evaluating the condition of erosion and drainage control facilities and other stormwater treatment practices

11.4 Notice of Inspection

Pursuant to an inspection by District staff, the applicant shall be notified of the findings of the inspection. The Notice of Inspection contain the following information:

1. Date of the inspection
2. Whether construction, or other land disturbing activities is in compliance with the issued permit, approved plan and/or District rules
3. Variation from the approved plans or activities
4. Any violations that exist

11.5 Violations Found During Inspection

If any violations of District rules are found, the permit applicant and contact shall be notified in writing of the nature of the violation and the required corrective actions. No additional work shall proceed until any violations are corrected and all work previously completed has received approval by the District and the appropriate municipality.

12.0 EASEMENTS

12.1 Ditch Easements

The applicant must dedicate easements on all new plats and developments where required as follows:

1. A 200 foot easement (100' either side of centerline) will be required on Coon Creek from the Mississippi River to Lexington Ave. (C.S.A.H. #17)
2. A 200 foot easement (100' either side of centerline) on Sand Creek from Coon Creek to Central Ave. (T.H. #65)
3. A 100 foot easement (50' either side of centerline) on designated county ditches within the watershed, including Coon Creek and Sand Creek upstream of the sections identified in 1 & 2 of this section.

12.2 Maintenance Easements

The applicant must ensure access to all stormwater treatment practices at the site for the purpose of inspection and repair by securing all the maintenance easements needed on a permanent basis. These easements will be recorded with the plan and will remain in effect even with transfer of title to the property.

12.3 Replacement Wetland Restrictions and Covenants

An applicant seeking approval of a replacement plan or bank plan under the Wetland Conservation Act, as amended, must record with the county recorder/registrar a declaration of restrictions and covenants for the replacement wetland, as required under the Wetland Conservation Act's implementing Rules, Chapter 8420, as amended. The Declarant must pay all costs associated with recording the Declaration, and provide proof of recording to the District

The restrictions and covenants shall be unlimited in duration.

Within the designated replacement wetland area the applicant and property owner shall:

1. Establish and maintain, at the applicant's expense, permanent vegetative cover, including any necessary planting or replanting thereof, and other conservation practices in accordance with the replacement plan and the intent of the Wetland Conservation Act, as amended.
2. Not produce agricultural crops on areas specified as wetland
3. Not graze livestock on the areas specified as wetland
4. Not place materials, substances or other objects, nor erect or construct any type of structure, temporary or permanent, except as specified in the replacement plan.
5. At applicants expense, be responsible for weed control by complying with noxious weed control laws and emergency control of pests necessary to protect the public health.
6. Comply with any other requirements or restrictions specified

in this rule, local ordinance or state rule including but not limited to haying, mowing, timber management and other vegetative alterations that do not enhance or would degrade the ecological functions or the wetland.

13.0 MAINTENANCE

13.1 Policy

Every person owning property through which a ditch or watercourse passes, or such person's lessee, shall keep and maintain that part of the ditch or watercourse within the property, free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, obstruct or significantly retard the flow of water, or access for maintenance or repair of the watercourse.

In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse.

13.2 Maintenance Plan

A maintenance plan must be submitted for stormwater treatment ponds, outlet structures for such ponds, culverts, outfall structures, and all other stormwater facilities required under these rules.

Maintenance Plan: The design and planning of all stormwater management facilities shall include detailed maintenance and repair procedures to ensure their continued function. These plans will identify the parts or components of a stormwater management facility that need to be maintained and the equipment and skills or training necessary.

Provisions for the periodic review and evaluation of the effectiveness of the maintenance program and the need for revisions or additional maintenance procedures shall be included in the plan.

Landscaping plan: The applicant must present a detailed plan for management of vegetation at the site after construction is finished, including:

- Who will be responsible for the maintenance of vegetation at the site and
2. What practices will be employed to ensure that adequate vegetative cover is preserved.

The maintenance plan must specify the

1. Parts or components of a stormwater management facility that need to be maintained
2. Methods (detailed maintenance and repair procedures to ensure continued function of the stormwater feature)
3. Schedule
4. Responsible parties for maintenance
5. Equipment and skills or training necessary
6. Provisions for the periodic review and evaluation of the effectiveness of the maintenance program
7. Need for revisions or additional maintenance procedures

13.3 Maintenance Agreement

A maintenance agreement is required for all stormwater facilities that will not be maintained as part of standard municipal public work activities. The maintenance agreement must include the elements required in the maintenance plan cited in section 13.1 of these rules.

13.4 Recording of the Maintenance Agreement

The applicant must record the maintenance agreement with the county recorder/registrar before any land-altering activity occurs on the site. Applicant/permittee must then provide the District a copy of the recorded document.

13.5 Failure to Maintain Practices

If a responsible party fails or refuses to meet the requirements of the maintenance agreement, the District, after reasonable notice, may correct a violation of the design standards or maintenance needs by performing necessary work to place the facility in proper working condition and charge the responsible party.

13.6 Annual Inspection of Stormwater Facilities

For all stormwater facilities that will not be maintained as part of standard municipal public work activities, the Responsible parties for maintenance shall inspect all stormwater management facilities under their jurisdiction by July 30 of each year. The purpose of the inspection will be to document maintenance and repair needs and ensure compliance with the requirements of this rule and accomplishment of its purposes.

These maintenance and repair needs may include; removal of silt, litter and other debris from all catch basins, inlets and drainage pipes, grass cutting and vegetation removal, and necessary replacement of landscape vegetation.

Any maintenance needs found must be addressed in a timely manner, as determined by the District, and the inspection and maintenance requirement may be increased as deemed necessary to ensure proper functioning of the stormwater management facility.

13.7 Right of Entry for Inspection

When any new drainage control facility is installed on private property, or when any new connection is made between private property and a public drainage control system, sanitary sewer or combined sewer, the property owner shall grant to the District the right to enter the property at reasonable times and in a reasonable manner for the purpose of inspection of the stormwater feature(s) on the property. This includes the right to enter a property when it has a reasonable basis to believe that a violation of this rule is occurring or has occurred, and to enter when necessary for abatement of a public nuisance or correction of a violation of this rule.

13.8 Records of Installation and Maintenance Activities

Parties responsible for the operation and maintenance of a stormwater management facility shall make records of the installation and of all maintenance and repairs, and shall retain the records for at least five years. These records shall be made available to the District during inspection of the facility and at other reasonable times upon request.

14.0 WAIVERS AND VARIANCES

14.1 Waivers

The District Board, Administrator or District Engineer may grant a waiver from the District requirements of this rule in whole or in part upon written request of the applicant, provided that at least one of the following conditions applies:

1. It can be demonstrated that the proposed project is not likely to impair attainment of the purpose and intent of this rule (eg. mill and overlay work for public roads).
2. Alternative minimum requirements for on-site management of water and related land resources have been established in a plan that has been approved by the District and the implementation of the plan is required by local ordinance.
3. Provisions are made to manage stormwater by an off-site facility, such as a regional pond or wetland bank. The off-site facility is required to:
 - a. Be in place,
 - b. Be designed and adequately sized to provide a level of control that is equal to or greater than that which would be afforded by on-site practices
 - c. Have a legally obligated entity responsible for long-term operation and maintenance of the stormwater practice.
4. The District finds that meeting the minimum on-site management requirements is not feasible due to the natural or existing physical characteristics of a site.

14.2 Variances

The Board of Managers may grant a variance from the literal provisions of the District’s rules, regulations, and policies where:

1. The strict enforcement of the rules would cause undue hardship because of circumstances unique to the property under consideration.
2. It is demonstrated that such action will be in keeping with the spirit and intent of the District rules, regulations and policies.
3. The proposed activity for which the variance is sought will not adversely affect the public health, safety or welfare.

14.3 Term of a Variance

A variance will expire on expiration of the District’s approval or permit associated with the variance request.

14.4 Violation of a Variance

A violation of any condition set forth in a variance will be a violation of the District rules, and will automatically terminate the variance.

14.5 Conditions

The Board of Managers may require as a condition of the waiver, or variance:

1. Such dedication or construction, or agreement to dedicate or construct as may be necessary to adequately meet said standards and requirements.
2. An alternative analysis that clearly demonstrates that no other feasible alternatives exist and that minimal impact will occur as a result of the project or development.
3. Site design, landscape planting, fencing, signs, and water quality best management practices to reduce adverse impacts on water quality, streams, wetlands, and floodplains.

15.0 ENFORCEMENT AND PENALTIES

15.1 Violations

A violation of these rules is a misdemeanor subject to the penalties as provided by Minnesota law.

15.2 Notice of Violation

When the District determines that an activity is **not** being carried out in accordance with the requirements of these rules, the District shall issue a written ‘Notice of Violation’ to the owner of the property or permittee. The notice of violation shall contain:

1. The name and address of the owner or applicant
2. The address when available or a description of the land upon which the violation is occurring
3. A statement specifying the nature of the violation
4. A description of the remedial measures necessary to bring the activity into compliance with this rule and a time schedule for the completion of such remedial action

5. A statement of penalty that may be assessed

15.3 Remedial Methods

Remedial measures required to bring an activity into compliance may require without limitation:

1. The performance of monitoring, analysis and reporting;
2. The elimination of illicit connections and discharges;
3. That violating discharges, practices, or operations shall cease and desist
4. The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property;
5. The implementation of source control or treatment BMPs

15.4 Appeal of Notice of Violation

A Notice of Violation may be appealed to the District by filing a written notice of appeal within 15 days of service.

Hearing of the appeal before the Board of Managers shall take place at the next regularly scheduled Board meeting that is at least 13 days from the date of receipt of the notice of appeal

15.5 Stop Work Orders

The District may issue a Stop Work Order when it finds that a proposed or initiated activity or project presents a serious threat of soil erosion, sedimentation, or an adverse effect upon water quality or quantity, or violates any District rule or permit condition. Persons receiving such an order will be required to halt all construction activities. This “stop work order” will be in effect until the District confirms that the activity is in compliance and the violation has been satisfactorily addressed.

15.6 Restoration of lands

Any violator may be required to restore land to its undisturbed condition. In the event that restoration is not undertaken within a reasonable time after notice, the District may take necessary corrective actions, the cost of which shall be paid by the responsible party

15.7 Attorney Fees and Costs

In any civil action arising from or related to these Rules, an order, agreement, permit issued or denied by the District, the court may award the prevailing party reasonable attorney fees and costs.

16.0 ILLICIT DISCHARGES

16.1 Illicit Discharge Prohibition

No person shall discharge or cause to be discharged into the drainage system, storm drain system or water courses of the District any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than

stormwater.

16.2 Exceptions

The commencement, conduct or continuance of any illegal discharge to the waters of the District is prohibited except as described as follows:

1. The following discharges are exempt from discharge prohibitions established by this rule:
 - a. Water line flushing or other potable water sources
 - b. Landscape irrigation or lawn watering
 - c. Diverted stream flows
 - d. Rising ground water
 - e. Ground water infiltration to storm drains
 - f. Uncontaminated pumped ground water
 - g. Foundation and footing drains
 - h. Fire fighting activities
 - i. Other water sources not containing pollutants
2. Discharges specified in writing by the District, or other federal, state or local agency as being necessary to protect the public health and safety.
3. Dye testing is an allowable discharge, but requires a verbal notification to the District prior to the time of the test
4. The prohibition shall not apply to any non-storm water discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the Federal Environmental Protection Agency, provided that the discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the storm drain system

16.3 Illicit Connections Prohibited

1. The construction, use, maintenance or continued existence of illicit connections to the public drainage system is prohibited.
2. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
3. A person is considered to be in violation of this rule if the person connects a line conveying sewage to the public drainage system, or allows such a connection to continue

17.0 ADOPTION OF RULE

17.1 Severability

If the provisions of any article, section, subsection, paragraph, subdivision or clause of this rule shall be judged invalid by a court of competent jurisdiction, such order of judgment shall not

affect or invalidate the remainder of any article, section, subsection, paragraph, subdivision or clause of this rule.

17.2 Compatibility with Other Requirements

This rule is not intended to interfere with, abrogate, or annul any other ordinance, rule or regulation, statute, or other provision of law. The requirements of this rule should be considered minimum requirements, and where any provision of this rule imposes restrictions different from those imposed by any other ordinance, rule or regulation, or other provision of law, whichever provisions are more restrictive or impose higher protective standards for human health or the environment shall be considered to take precedence.

17.3 Prior Rules And Regulations

All prior rules and parts of rules and amendments to rules in conflict with this rule are hereby repealed.

17.4 Effective Date

This rule shall be in full force and effect on the day of its final passage and adoption of the Board of Managers.

17.5 Adopted

Adopted by the Board of Managers of the Coon Creek Watershed District this 9th day of March, 2009.

17.6 Certification of the Rules

I, Ted Capra, Secretary of the Coon Creek Watershed District Board of Managers, certify that the attached is a true and correct copy of the Rules of the Coon Creek Watershed District having been properly adopted by the Board of Managers of the Coon Creek Watershed District.

Dated: March 9, 2009

Secretary of the Coon Creek Watershed District

APPENDIX A: Definitions

Term	Definition
Adjacent	Bordering, contiguous, or neighboring. Wetlands separated from other waters of the District by man-made dikes or barriers, spoil banks, and the like are "adjacent wetlands."
Applicant	A property owner or agent of a property owner who has filed an application for a stormwater management permit
Aquifer	A geologic formation, group of formations or part of a formation composed of rock, sand or gravel capable of storing and yielding groundwater to wells and springs
Best Management Practice (BMP)	Structural device, measure, facility or activity that helps to achieve stormwater management control objectives at a designated site. Schedules of activities, prohibitions of practices, general good house keeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.
Board	The Board of Managers of the Coon Creek Watershed District
Buffer Strip	<p>A vegetated area bordering a stream that exists or is established to protect a stream system. Alteration of this vegetated area is strictly limited.</p> <p>A natural buffer for a stream or ditch system shall consist of a natural strip of land extending along the side(s) of a stream or lake, wetlands, floodplains, or slopes.</p> <p>The natural buffer shall begin at the edge of the stream bank of the active channel.</p>
Building	Any structure, either temporary or permanent, having walls and a roof, designed for the shelter of any person, animal, or property, and occupying more than 100 square feet of area.
Channel	A natural or artificial watercourse with a definite bed and banks that conducts continuously or periodically flowing water
Control Measure	A practice or combination of practices to control erosion and attendant pollution

Term	Definition
Dedication	The deliberate appropriation of property by its owner for general public use
Detention	The temporary storage of storm runoff in a stormwater management practice with the goals of controlling peak discharge rates and providing gravity settling of pollutants
Developer	A person who undertakes land disturbance activities
District	The Coon Creek Watershed District
Drainage Easement	A legal right granted by a landowner to a grantee allowing the use of private land for stormwater management purposes
Drainage sensitive uses	<u>Drainage Sensitive Uses are those land uses that require less than saturated conditions to grow or for the land to be used and therefore are dependent upon the subsurface, lateral effect of drainage ditches to remove water.</u>
Erosion and Sediment Control Plan	A plan that is designed to minimize the accelerated erosion and sediment runoff at a site during construction activities
Extreme Fluctuations	Means changes in the volume, elevation or timing of the discharge or storage of water that can result in adverse impact to the biogeochemical character of the receiving resource.
Floodplain	The area adjoining a watercourse, water basin or wetland that have been or may be covered by a regional flood
Floodway	The channel of a watercourse, the bed of water basins and wetlands, and those portions of the adjoining floodplains that are reasonably required to carry and discharge floodwater and provide water storage during a regional flood
Flow Velocities	A condition where the rate of volume of water flowing exceeds the design capability of the conveyance system.
Function	The biogeochemical processes that sustain the wetland at the site and landscape levels. Specifically the geomorphic setting, water source and hydrodynamics that contribute to sustaining wetlands.

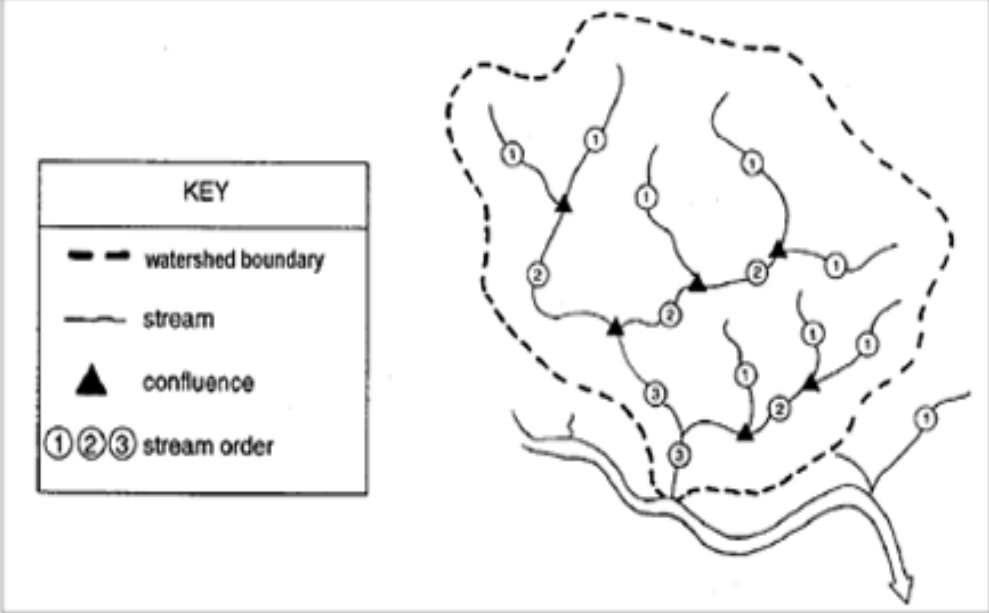
Term	Definition
High Infiltration Soils	Soils with infiltration rates greater than 6 inches per hour. These soils have high infiltration rates even when they are thoroughly wetted. These consist chiefly of deep, well to excessively drained sands and gravels. These soils have a high rate of water transmission, so water passes through them readily but the soils have low runoff potential.
Hydric Soil	Soils that are saturated, or ponded long enough during the growing season to develop anaerobic conditions in the upper part
Hydrologic Soil Group (HSG)	A Natural Resource Conservation Service classification system in which soils are categorized into four runoff potential groups. The groups range from A soils, with high permeability and little runoff production, to D soils, which have low permeability rates and produce much more runoff.
Illicit Connections	Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system including but not limited to any conveyances which allow any non-storm water discharge including sewage, process wastewater, and wash water to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by an authorized enforcement agency or, Any drain or conveyance connected from a commercial or industrial land use to the storm drain system which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency
Illicit Discharge	Any direct or indirect non-storm water discharge to the storm drain system, except as exempted. Illicit discharges may include discharges from illicit connections with measurable flow during dry weather containing pollutants or pathogens.
Improvement or Ditch Improvement	Any activity which deepens straightens or increases the "as constructed" capacity of a ditch. This may include the grading, digging, cutting, scraping, or excavating of soil, placement of fill materials, paving, construction, and substantial removal of vegetation.
Infiltration	The process of percolating stormwater into the subsoil.
Infiltration Facility	Any structure or device designed to infiltrate retained water to the subsurface. These facilities may be above grade or below grade.

Term	Definition
Land Disturbance Activity	Any activity which changes the volume or peak flow discharge rate of rainfall runoff from the land surface. This may include the grading, digging, cutting, scraping, or excavating of soil, placement of fill materials, paving, construction, substantial removal of vegetation, or any activity which bares soil or rock or involves the maintenance, repair, improvement, diversion or piping of any natural or man-made watercourse
Landowner	The legal or beneficial owner of land, including those holding the right to purchase or lease the land, or any other person holding proprietary rights in the land
Maintenance Agreements	A legally recorded document that acts as a property deed restriction, and which provides for long-term maintenance of storm water management practices
Managers	The Board of Managers of the Coon Creek Watershed District
Maximum Extent Practicable (MEP)	Within the limits of available technology and the practical and technical limits of a site and project, an applicant has reduced discharge of pollutants from stormwater to the maximum extent practicable (MEP) when the Board finds that he/she has made a good faith effort in meeting the following requirements: <ol style="list-style-type: none"> 1. The proposed plan is capable of being done from an engineering point of view. 2. The proposed plan is in accordance with accepted engineering standards and practices. 3. The proposed plan is consistent with reasonable requirements of the public health safety and welfare. 4. The proposed plan is environmentally preferred based on a review of social, economic and environmental impacts, and 5. It would create no unusual problems.
Municipality	City or township wholly or partly within the district
Nonpoint Source Pollution	Pollution from any source other than from any discernible, confined, and discrete conveyances, and shall include, but not be limited to, pollutants from agricultural, silvicultural, mining, construction, subsurface disposal and urban runoff sources
One Hundred-Year Floodplain	The area of land adjacent to a stream that is subject to inundation during a storm event that has a recurrence interval of 100 years, or a 1% chance of occurring in any given year. In Coon Creek Watershed it is equivalent to a 5.9 inch rainfall in a 24 hour period
One Year Event	A storm event that has a 99% chance of occurring in any given year. In Coon Creek Watershed it is equivalent to a 2.3 inch rainfall in a 24 hour period

Term	Definition		
Person	Any individual, firm, corporation, partnership, franchisee, association, or governmental entity		
Plan	A document approved at the site design phase that outlines the measures and practices used to control stormwater runoff at a site.		
Pollutant	Anything which causes or contributes to pollution including nonpoint source pollution and discharges from illicit connections. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, rules, and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.		
Public Waters	Waters of the state as defined in Minnesota statutes, section 103G.005, subdivision 15		
Recharge	The replenishment of underground water reserves		
Relevant Reach	That portion of the stream course and floodplain that would experience an increase in stage as a result of floodplain fill		
Repair or Ditch Repair	Any activity which returns a ditch or conveyance system to its "as constructed" elevation or slope. This may include the grading, digging, cutting, scraping, or excavating of soil, placement of fill materials, paving, construction, or substantial removal of vegetation.		
Retention Facility/Infiltration Basin	A permanent or man-made structure, including wetlands, that provides for the storage of stormwater runoff by means of a permanent pool of water. Retention facilities have no outlet structure and water is typically lost through infiltration to ground water or through evaporation and/or transpiration		
Role	All public and private ditches within the watershed fulfill one or more of the following roles:		
	Role	Function	Definition
	Agricultural drainage	To remove water from the soil profile to enable crop growth.	All first and second order ditches that serve agricultural purposes
	Storm water conveyance	To route stormwater from urbanized	All first and second order ditches that

Term	Definition		
		areas, the public ditches will be preserved, repaired and maintained for conveying stormwater and potentially as greenways.	serve to route stormwater from urbanized areas.
	Collector system	To serve as the outlet for other ditches (public and private) and extended hydrographs and/or increases in the duration of elevated flows occur the ditches	All third order streams within the watershed.
	Trunk drainage system	To serve as the outlet for other ditches (public and private) and extended hydrographs and/or increases in the duration of elevated flows occur the ditches will be managed as a trunk drainage system	All fourth and fifth order streams
Sediment	Solid matter carried by water, sewage or other liquids		
Shall	Is mandatory and not permissive		
Shallow/Surficial Aquifer	An aquifer in which the permeable medial (sand and gravel) starts at the land surface or immediately below the soil profile		
Significant Material Change	Changes to grading, drainage, erosion control or other plans reviewed by the Watershed District that 1 exhibit an identifiable or measurable change or difference from prior reviewed or submitted plans. The material change is significant if it results or can result in an adverse impact to property or resources not previously identified.		

Term	Definition
Stop Work Order	An order issued which requires that all construction activity on a site be stopped
Stormwater	Any surface flow, runoff, and drainage consisting entirely of water from any form of natural precipitation, and resulting from such precipitation
Stormwater Management	The use of structural or non-structural practices that are designed to reduce storm water runoff pollutant loads, discharge volumes, and/or peak flow discharge rates
Stormwater Pollution Prevention Plan (SWPPP)	A document which describes the Best Management Practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to Stormwater, Stormwater Conveyance Systems, and/or Receiving Waters to the Maximum Extent Practicable
Stormwater Runoff	Flow on the surface of the ground, resulting from precipitation
Stormwater Treatment Practices (STPs)	Measures, either structural or nonstructural, that are determined to be the most effective, practical means of preventing or reducing point source or nonpoint source pollution inputs to stormwater runoff and water bodies

Term	Definition
Stream Order or ordering	<p>A classification system for streams based on stream hierarchy. The smaller the stream, the lower its numerical classification. For example, a first-order stream does not have tributaries and normally originates from springs and/or seeps. The approach consists of systematically ordering the branches and tributary streams. The extent of branching is an indication of the size and extent of the drainage network of the watershed. It influences the timing of peaks at a given point in the watershed as well as water quality.</p> <p>Figure 1: Stream Order (Source: Schueler, 1995)</p> 
Streams	<p>Perennial and intermittent watercourses identified through site inspection and US Geological Survey (USGS) maps. Perennial streams are those which are depicted on a USGS map with a solid blue line. Intermittent streams are those which are depicted on a USGS map with a dotted blue line.</p>
Structure	<p>Anything manufactured, constructed or erected which is normally attached to or positioned on the land, including portable structures, earthen structures, roads, parking lots and paved storage areas.</p>
Total Maximum Daily Load (TMDL)	<p>A Total Maximum Daily Load, or TMDL, is a regulation designed to improve water quality by controlling the amount of a pollutant entering a water body.</p>
Undue hardship	<p>The owner can not make reasonable use of their property</p>

Term	Definition
Water Quality Volume (WQv)	The storage needed to capture and treat 90% of the average annual stormwater runoff volume. Numerically (WQv) will vary as a function of long term rainfall statistical data
Watercourse	A permanent or intermittent stream or other body of water, either natural or man-made, which gathers or carries surface water.
Watershed	An area of common drainage
Welfare	An act or thing that tends to improve, benefit, or contribute to the safety or well-being of the general public, or benefit the inhabitants of the watershed district
Wetland Functions	The biogeochemical processes that sustain the wetland at the site and landscape levels
Wetland or Jurisdictional Wetland	An area that is inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soil conditions, commonly known as hydrophytic vegetation.

Sharon Ayshford, City Deputy Clerk, City of Ham Lake
Ham Lake City Hall
15544 Central Avenue NE
Ham Lake, MN 55304

and depositing the same, with postage prepaid, in the United States mail at Coon Rapids,
Minnesota.

Tim Kelly
District Administrator
Coon Creek Watershed District

Subscribed and sworn to before me this 10th day of March, 2009.

Notary Public