

MINUTES
JEFFERSON COUNTY

Erosion Control and Stormwater Management Work Group

George Jaeckel, Blane Poulson, Matt Foelker, Cassie Richardson, Margaret Burlingham

SUBJECT: Erosion Control and Stormwater Management Work Group
DATE: Tuesday, June 27, 2023
TIME: 8:30 a.m.
PLACE: County Highway Department Committee Room
1425 Wisconsin Drive, Jefferson, WI

YOU MAY ATTEND VIRTUALLY BY FOLLOWING THESE INSTRUCTIONS:

<https://us06web.zoom.us/join/91182122012?pwd=ZEtucispjwoGNBG0M-r7wHq5zLhfbcqIRm1>
Meeting ID 850 5148 7224
Passcode 388227

1. Call to Order - The meeting was called to order by Chairman Jaeckel at 8:30 a.m.
2. Roll Call (Establish a Quorum) - All workgroup members were present. Also present was Matt Zangl, Director of Planning and Zoning; Patricia Cicero, Director of Land and Water Conservation; Supervisor Martin, Brett Scherer, Zoning and Land Use Technician; Sarah Elsner, Zoning and Land Use Technician; Brian Udovich, Highway Operations Manager. Present via Zoom was Ben Wehmeier, County Administrator; Frankie Fuller and Zach Nagel.
3. Certification of Compliance with Open Meetings Law - Supervisor Poulson certified the meeting was in compliance.
4. Approval of the Agenda - Motion by Poulson, second by Foelker to approve the agenda. Motion passed by voice vote, 5-0.
5. Public Comment (Members of the public who wish to address the committee on specific agenda items must register at this time)
No public comment was received.
6. Approval of May 24, 2023, minutes – Motion by Poulson, seconded by Jaeckel to approve minutes. Motion passed by voice vote, 5-0.
7. Communications - no communications.
8. Discussion and Possible Action on enacting an Erosion Control Ordinance - Zangl provided an overview of the model ordinance and possible changes were discussed. The workgroup discussed how the proposed erosion control ordinance would affect the townships and building inspectors role. It was also discussed who would enforce the proposed erosion control ordinance, how the position would be staffed and the workload of the position. The workgroup discussed potential fee schedules for erosion control permits and when they would apply. The workgroup discussed exemptions with agricultural related projects or reduced fees. It was also discussed that if maintenance projects related to agricultural would be exempt from an erosion control permit. A consensus was reached to continue reviewing the draft ordinance and directed Zangl to make the discussed changes to the draft ordinance and keep language as simple as possible.
9. Discussion and Possible Action on enacting a Post Construction Stormwater Management Ordinance - Zangl provided an overview of the model ordinance and how similar Counties enforce stormwater ordinances. The workgroup discussed what projects should be the focus of enforcement and permits. It was also discussed how

the Stormwater Management Ordinance should be managed. It was discussed if it should be regulated by the amount of impervious surface on a property or how much land is disturbed. The workgroup also discussed agricultural exemptions and what should be exempt. The workgroup discussed making the language as simple as possible. The workgroup reviewed increasing the storm size that project plan for from the 2 year – 24 hour storm to a larger storm such as 5 year or 10 year similar to Rock County. The consensus was to follow the DNR model ordinance utilizing the 2 year – 24 hour storm.

10. Possible Future Agenda Items – None.

11. Upcoming Meeting Dates - The workgroup and staff noted that July 27 would not work. The upcoming meeting was changed to July 25, 2023 at 8:30am.

12. Adjourn - Motion by Foelker, seconded by Poulson to adjourn at 9:50 a.m, motion passed by voice vote, 5-0.

A quorum of any Jefferson County Committee, Board, Commission or other body, including the Jefferson County Board of Supervisors, may be present at this meeting.

Individuals requiring special accommodations for attendance at the meeting should contact the County Administrator at 920-674-7101 at least 24 hours prior to the meeting so that appropriate arrangements can be made.

July 17, 2023

CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL ORDINANCE

AN ORDINANCE TO CREATE CHAPTER [NUMBER] OF THE [CODE OR ORDINANCE] OF THE [NAME OF MUNICIPALITY] RELATING TO THE CONTROL OF CONSTRUCTION SITE EROSION AND SEDIMENTATION RESULTING FROM LAND DISTURBING CONSTRUCTION ACTIVITIES

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FOREWORD.

Use of this ordinance will foster consistent, statewide application of the construction site performance standards for new development and redevelopment contained in subchapters III and IV of ch. NR 151, Wis. Adm. Code.

The [governing body] of the [name of municipality] does hereby ordain that Chapter [number] of the [code or ordinance] of the [name of municipality] is created to read as follows:

CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL

1. AUTHORITY.

- (1) This ordinance is adopted under the authority granted by s. 59.693 Wis. Stats. This ordinance supersedes all provisions of an ordinance previously enacted under s. 59.69 Wis. Stats., that relate to construction site erosion control. Except as otherwise specified in s. 59.693, Wis. Stats., s. 59.69, Wis. Stats., applies to this ordinance and to any amendments to this ordinance.
- (2) The provisions of this ordinance are deemed not to limit any other lawful regulatory powers of the same governing body.
- (3) Jefferson County hereby designates the Planning and Zoning Committee to administer and enforce the provisions of this ordinance.
- (4) The requirements of this ordinance do not pre-empt more stringent erosion and sediment control requirements that may be imposed by any of the following:
 - (a) Wisconsin Department of Natural Resources administrative rules, permits or approvals, including those authorized under ss. 281.16 and 283.33, Wis. Stats.
 - (b) Targeted non-agricultural performance standards promulgated in rules by the Wisconsin Department of Natural Resources under s. NR 151.004, Wis. Adm. Code.

2. PURPOSE AND FINDINGS OF FACT

- (1) Jefferson County acknowledges that runoff from land disturbing construction activity carries a significant amount of sediment and other pollutants to the waters of the state in Jefferson County.
- (2) It is the purpose of this ordinance to maintain safe and healthy conditions; prevent and control water pollution; prevent and control soil erosion and sediment discharge; protect spawning grounds, fish and aquatic life; control building sites,

placement of structures and land uses; preserve ground cover and scenic beauty; and promote sound economic growth by minimizing the amount of sediment and other pollutants carried by runoff or discharged from land disturbing construction activity to waters of the state in the Jefferson County.

3. APPLICABILITY, JURISDICTION, EXEMPTIONS AND WAIVERS

(1) JURISDICTION

(a) This ordinance applies to land disturbing construction activity on lands within the boundaries and jurisdiction of Jefferson County.

(2) APPLICABILITY

(a) Erosion Control: Unless otherwise exempted or waived, an erosion control permit under this ordinance shall be required, and all provisions of this ordinance shall apply, to all land disturbing activities, that meet any of the following criteria:

1. Any land disturbing activity within 300 feet of the ordinary high water mark of a lake, stream or river or within 300 feet of a mapped wetland;
2. Any land disturbing activity equal to or greater than 500 square feet within 301 feet and 1,000 feet of the ordinary high water mark of a lake, stream or river;
3. Any land disturbing activity equal to or greater than 2,000 square feet, except as provided in sub. 4.;
4. Any agricultural related land disturbing construction activity greater than 4,000 sq. ft.;
5. Disturbs 100 lineal feet or more of road ditch, grass waterway, or other land area where surface drainage flows in a defined channel; including the replacement, repair or removal of any underground pipe, utility or other facility;
6. Laying, boring, repairing, replacing, or enlarging underground pipe, cable, or wire or other facility for a distance of 300 feet or more;

(b) Notwithstanding the applicability requirements in par. (a), this ordinance applies to construction sites or land disturbing activities of any size that, as determined by the Planning and Zoning Committee or Zoning Administrator, have a high risk of soil erosion or water pollution, or that may have a significant adverse impact on environmentally sensitive areas.

(3) EXEMPTIONS

(a) This ordinance does not apply to the following:

1. The construction of one and two family residential homes if all of the following apply:
 - a. A building permit has been obtained from the local building inspector which includes erosion control practices and permitting;
 - b. The total land disturbance is less than 1 acre;
 - c. The building site and majority of land disturbance is greater than 300 feet from the OHWM.

Commented [MZ1]: Is this section needed based on the exemption #3?

Commented [MZ2]: Thoughts?

2. ~~Nonpoint discharges~~ Land disturbing construction activity from agricultural facilities and practices (see S. 4(2)).
3. ~~Nonpoint discharges~~ Land disturbing construction activity from silviculture activities.
4. The maintenance and repair of agricultural drainage ditches if done in accordance with best practices and obtaining all other necessary permits.
5. Land disturbing activities directly related to the installation and maintenance of private on-site waste treatment systems, regulated under the Jefferson County Private Onsite Waste Treatment Systems Ordinance, if the site is restored and seeded within 48 hours of commencing land disturbance.
6. Transportation facilities, except transportation facility construction projects that are part of a larger common plan of development such as local roads within a residential or industrial development.
7. A construction project that is exempted by federal statutes or regulations from the requirement to have a national pollutant discharge elimination system permit issued under chapter 40, Code of Federal Regulations, part 122, for land disturbing construction activity.
8. Routine maintenance for project sites that have less than 5 acres of land disturbance if performed to maintain the original line and grade, hydraulic capacity or original purpose of the facility.
9. Any road construction or other land disturbing activity by the County, or any municipality within the County. The municipality shall follow the requirements of this ordinance, but shall be exempt from any fee and permitting requirements.
10. Any land disturbing activity that is designed and/or certified by the Land and Water Conservation Department or the Natural Resources Conservation Service (NRCS) of the United States Department of Agriculture as part of a soil conservation or water pollution control project shall comply with all of the requirements of this ordinance, but shall be exempted from obtaining a permit.

Commented [MZ3]: Remove Nonpoint discharge?

(4) WAIVERS

- (a) The Planning and Zoning Administrator may waive or reduce any or all of the requirements if it is determined that:
 1. The site or activity in question will have no appreciable off-site impact; or
 2. Compliance with the requirement(s) is impractical or impossible due to site conditions or other circumstances beyond the control of the applicant; or
 3. The specific requirement is not necessary for a particular site to ensure compliance with this Ordinance.
- (b) The applicant shall demonstrate to the Zoning Administrator that a performance standard is not achievable and that a lower level of

performance is appropriate. In making the assertion that a performance standard is not achievable and that a level of performance different from the performance standard is the maximum extent practicable, the applicant shall take into account the best available technology, cost effectiveness, geographic features, and other competing interests such as protection of public safety and welfare, protection of endangered and threatened resources, and preservation of historic properties.

4. DEFINITIONS

- (1) "Administering authority" means a governmental employee, or a regional planning commission empowered under s. 59.693 Wis. Stats., that is designated by Jefferson County to administer this ordinance.
- (2) "Agricultural facilities and practices" has the meaning in s. 281.16 (1), Wis. Stats.
 - (a) Agricultural facility: a structure associated with an agricultural practice.
 - (b) Agricultural practice: beekeeping; commercial feedlots; dairying; egg production; floriculture; fish or fur farming; grazing; livestock raising; orchards; poultry raising; raising of grain, grass, mint and seed crops; raising of fruits, nuts and berries; sod farming; placing land in federal programs in return for payments in kind; owning land, at least 35 acres of which is enrolled in the conservation reserve program under 16 USC 3831 to 3836; and vegetable raising.
- (3) "Best management practice" or "BMP" means structural or non-structural measures, practices, techniques or devices employed to avoid or minimize soil, sediment or pollutants carried in runoff to waters of the state.
- (4) "Business day" means a day the office of the Jefferson County is routinely and customarily open for business.
- (5) "Cease and desist order" means a court-issued order to halt land disturbing construction activity that is being conducted without the required permit or in violation of a permit issued by the Jefferson County.
- (6) "Construction site" means an area upon which one or more land disturbing construction activities occur, including areas that are part of a larger common plan of development or sale where multiple separate and distinct land disturbing construction activities may be taking place at different times on different schedules but under one plan. A long-range planning document that describes separate construction projects, such as a 20-year transportation improvement plan, is not a common plan of development.
- (7) "Design Storm" means a hypothetical discrete rainstorm characterized by a specific duration, temporal distribution, rainfall intensity, return frequency and total depth of rainfall.
- (8) "Erosion" means the process by which the land's surface is worn away by the action of wind, water, ice or gravity.
- (9) "Erosion and sediment control plan" means a comprehensive plan developed to address pollution caused by erosion and sedimentation of soil particles or rock fragments during construction.

Commented [MZ4]: Add minimum size requirement? Refine to capture buildings strictly for ag purposes? What if a structure is primarily used for residential, but stores 1 piece of ag equipment?

- (10) "Final stabilization" means that all land disturbing construction activities at the construction site have been completed and that a uniform perennial vegetative cover has been established with a density of at least 70 percent of the cover for the unpaved areas and areas not covered by permanent structures or that employ equivalent permanent stabilization measures.
- (11) "Governing body" means the Jefferson County Board of Supervisors.
- (12) "Land disturbing construction activity" means any man-made alteration of the land surface resulting in a change in the topography or existing vegetative or non-vegetative soil cover, that may result in runoff and lead to an increase in soil erosion and movement of sediment into waters of the state. Land disturbing construction activity includes clearing and grubbing, demolition, excavating, pit trench dewatering, filling and grading activities.
- (13) "Landowner" means any person holding fee title, an easement or other interest in property, which allows the person to undertake cropping, livestock management, land disturbing construction activity or maintenance of storm water BMPs on the property.
- (14) "Maximum extent practicable" means the highest level of performance that is achievable but is not equivalent to a performance standard identified in this ordinance as determined in accordance with S. 055 of this ordinance.
- (15) "Performance standard" means a narrative or measurable number specifying the minimum acceptable outcome for a facility or practice.
- (16) "Permit" means a written authorization made by the [administering authority] to the applicant to conduct land disturbing construction activity or to discharge post-construction runoff to waters of the state.
- (17) "Pollutant" has the meaning given in s. 283.01 (13), Wis. Stats.: any dredged spoil, solid waste, incinerator residue, sewage, garbage, refuse, oil, sewage sludge, munitions, chemical wastes, biological materials, radioactive substance, heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal and agricultural waste discharged into water.
- (18) "Pollution" has the meaning given in s. 281.01 (10), Wis. Stats.: includes contaminating or rendering unclean or impure the waters of the state, or making the same injurious to public health, harmful for commercial or recreational use, or deleterious to fish, bird, animal or plant life.
- (19) "Responsible party" means the landowner or any other entity performing services to meet the requirements of this ordinance through a contract or other agreement.
- (20) "Runoff" means storm water or precipitation including rain, snow or ice melt or similar water that moves on the land surface via sheet or channelized flow.
- (21) "Sediment" means settleable solid material that is transported by runoff, suspended within runoff or deposited by runoff away from its original location.
- (22) "Silviculture activity" means activities including tree nursery operations, tree harvesting operations, reforestation, tree thinning, prescribed burning, and pest and fire control. Clearing and grubbing of an area of a construction site is not a silviculture activity.

- (23) "Site" means the entire area included in the legal description of the land on which the land disturbing construction activity is proposed in the permit application.
- (24) "Stop work order" means an order issued by the Jefferson County which requires that all construction activity on the site be stopped.
- (25) "Technical standard" means a document that specifies design, predicted performance and operation and maintenance specifications for a material, device or method.
- (26) "Transportation facility" means a highway, a railroad, a public mass transit facility, a public-use airport, a public trail or any other public work for transportation purposes such as harbor improvements under s. 85.095 (1)(b), Wis. Stats. "Transportation facility" does not include building sites for the construction of public buildings and buildings that are places of employment that are regulated by the Department pursuant to s. 281.33, Wis. Stats.
- (27) "Waters of the state" includes those portions of Lake Michigan and Lake Superior within the boundaries of this state, and all lakes, bays, rivers, streams, springs, ponds, wells, impounding reservoirs, marshes, watercourses, drainage systems and other surface water or groundwater, natural or artificial, public or private, within this state or its jurisdiction.

5. TECHNICAL STANDARDS

- (1) All BMPs required for compliance with this ordinance shall meet design criteria, standards and specifications based on any of the following:
 - (a) Design guidance and technical standards identified or developed by the Wisconsin Department of Natural Resources under subchapter V of chapter NR 151, Wis. Adm. Code.
 - (b) Soil loss prediction tools (such as the Universal Soil Loss Equation (USLE)) when using an appropriate rainfall or runoff factor (also referred to as the R factor) or an appropriate design storm and precipitation distribution, and when considering the geographic location of the site and the period of disturbance.
 - (c) Technical standards and methods approved by the **[administering authority]**.

6. PERFORMANCE STANDARDS FOR CONSTRUCTION SITES

- (1) RESPONSIBLE PARTY. The responsible party or applicant shall comply with this section and implement the erosion and sediment control plan developed in accordance with S. 10*.
- (2) EROSION AND SEDIMENT CONTROL PLAN. A written site-specific erosion and sediment control plan shall be developed in accordance with S. 10* of this ordinance and implemented for each construction site.
- (3) EROSION AND OTHER POLLUTANT CONTROL REQUIREMENTS. The erosion and sediment control plan required under sub. (2) shall include the following:
 - (a) EROSION AND SEDIMENT CONTROL PRACTICES. Erosion and sediment control practices at each site where land disturbing construction activity is to occur shall be used to prevent or reduce all of the following:
 - 1. The deposition of soil from being tracked onto streets by vehicles.

2. The discharge of sediment from disturbed areas into on-site storm water inlets.
 3. The discharge of sediment from disturbed areas into adjacent waters of the state.
 4. The discharge of sediment from drainage ways that flow off the site.
 5. The discharge of sediment by dewatering activities.
 6. The discharge of sediment eroding from soil stockpiles existing for more than 7 days.
 7. The discharge of sediment from erosive flows at outlets and in downstream channels.
 8. The transport by runoff into waters of the state of chemicals, cement, and other building compounds and materials on the construction site during the construction period. However, projects that require the placement of these materials in waters of the state, such as constructing bridge footings or BMP installations, are not prohibited by this subdivision.
 9. The transport by runoff into waters of the state of untreated wash water from vehicle and wheel washing.
- (b) **SEDIMENT PERFORMANCE STANDARDS.** In addition to the erosion and sediment control practices under par. (a), the following erosion and sediment control practices shall be employed:
1. BMPs that, by design, discharge no more than 5 tons per acre per year, or to the maximum extent practicable, of the sediment load carried in runoff from initial grading to final stabilization.
 2. No person shall be required to employ more BMPs than are needed to meet a performance standard in order to comply with maximum extent practicable. Erosion and sediment control BMPs may be combined to meet the requirements of this paragraph. Credit may be given toward meeting the sediment performance standard of this paragraph for limiting the duration or area, or both, of land disturbing construction activity, or for other appropriate mechanisms.
 3. Notwithstanding subd. 1., if BMPs cannot be designed and implemented to meet the sediment performance standard, the erosion and sediment control plan shall include a written, site-specific explanation of why the sediment performance standard cannot be met and how the sediment load will be reduced to the maximum extent practicable.
- (c) **PREVENTIVE MEASURES.** The erosion and sediment control plan shall incorporate all of the following:
1. Maintenance of existing vegetation, especially adjacent to surface waters whenever possible.
 2. Minimization of soil compaction and preservation of topsoil.
 3. Minimization of land disturbing construction activity on slopes of 20 percent or more.
 4. Development of spill prevention and response procedures.

- (d) LOCATION. The BMPs used to comply with this section shall be located so that treatment occurs before runoff enters waters of the state.
- (4) IMPLEMENTATION. The BMPs used to comply with this section shall be implemented as follows:
 - (a) Erosion and sediment control practices shall be constructed or installed before land disturbing construction activities begin in accordance with the erosion and sediment control plan developed in S. 08* (2).
 - (b) Erosion and sediment control practices shall be maintained until final stabilization.
 - (c) Final stabilization activity shall commence when land disturbing activities cease and final grade has been reached on any portion of the site.
 - (d) Temporary stabilization activity shall commence when land disturbing activities have temporarily ceased and will not resume for a period exceeding 14 calendar days.
 - (e) BMPs that are no longer necessary for erosion and sediment control shall be removed by the responsible party.
- 7. PERMITTING REQUIREMENTS, PROCEDURES AND FEES
 - (1) PERMIT REQUIRED. No responsible party may commence a land disturbing construction activity subject to this ordinance without receiving prior approval of an erosion and sediment control plan for the site and a permit from the [administering authority].
 - (2) PERMIT APPLICATION AND FEES. The following items shall be submitted:
 - (a) A completed application form,
 - (b) The applicable fee,
 - (c) An erosion and sediment control plan.
 - (3) PERMIT APPLICATION REVIEW AND APPROVAL. The Planning and Zoning Department shall review any permit application that is submitted with an erosion and sediment control plan, and the required fee. The following approval procedure shall be used:
 - (a) Within 30 days of the receipt of a complete permit application, as required by sub. (2), the Planning and Zoning Department shall inform the applicant whether the application and erosion and sediment control plan are approved or disapproved based on the requirements of this ordinance.
 - (b) If the permit application and erosion and sediment control plan are approved, the Planning and Zoning Department shall issue the permit.
 - (c) If the permit application or erosion and sediment control plan is disapproved, the Planning and Zoning Department shall state in writing the reasons for disapproval.
 - (d) The Planning and Zoning Department may request additional information from the applicant. If additional information is submitted, the Planning and Zoning Department shall have 30 days from the date the additional information is received to inform the applicant that the erosion and sediment control plan is either approved or disapproved.

- (e) Failure by the Planning and Zoning Department to inform the permit applicant of a decision within 30 days of a required submittal shall be deemed to mean approval of the submittal and the applicant may proceed as if a permit had been issued.
- (4) SURETY BOND. As a condition of approval and issuance of the permit, the [administering authority] may require the applicant to deposit a surety bond or irrevocable letter of credit to guarantee a good faith execution of the approved erosion and sediment control plan and any permit conditions.
- (5) PERMIT REQUIREMENTS. All permits shall require the responsible party to:
 - (a) Notify the [administering authority] within 48 hours of commencing any land disturbing construction activity.
 - (b) Notify the [administering authority] of completion of any BMPs within 14 days after their installation.
 - (c) Obtain permission in writing from the [administering authority] prior to any modification pursuant to S. 10* (3) of the erosion and sediment control plan.
 - (d) Install all BMPs as identified in the approved erosion and sediment control plan.
 - (e) Maintain all road drainage systems, storm water drainage systems, BMPs and other facilities identified in the erosion and sediment control plan.
 - (f) Repair any siltation or erosion damage to adjoining surfaces and drainage ways resulting from land disturbing construction activities and document repairs in a site inspection log.
 - (g) Inspect the BMPs within 24 hours after each rain of 0.5 inches or more which results in runoff during active construction periods, and at least once each week. Make needed repairs and install additional BMPs as necessary, and document these activities in an inspection log that also includes the date of inspection, the name of the person conducting the inspection, and a description of the present phase of the construction at the site.
 - (h) Allow the [administering authority] to enter the site for the purpose of inspecting compliance with the erosion and sediment control plan or for performing any work necessary to bring the site into compliance with the erosion and sediment control plan. Keep a copy of the erosion and sediment control plan at the construction site.
- (6) PERMIT CONDITIONS. Permits issued under this section may include conditions established by [administering authority] in addition to the requirements set forth in sub. (5), where needed to assure compliance with the performance standards in S. 07* or S. 08*.
- (7) PERMIT DURATION. Permits issued under this section shall be valid for a period of 180 days, or the length of the building permit or other construction authorizations, whichever is longer, from the date of issuance. The [administering authority] may grant one or more extensions not to exceed 180 days cumulatively. The

[administering authority] may require additional BMPs as a condition of an extension if they are necessary to meet the requirements of this ordinance.

- (8) MAINTENANCE. The responsible party throughout the duration of the construction activities shall maintain all BMPs necessary to meet the requirements of this ordinance until the site has undergone final stabilization.

8. EROSION AND SEDIMENT CONTROL PLAN

(1) EROSION AND SEDIMENT CONTROL PLAN REQUIREMENTS.

- (a) An erosion and sediment control plan shall be prepared and submitted to the [administering authority].

- (b) The erosion and sediment control plan shall be designed to meet the performance standards in S. 07*, S. 08* and other requirements of this ordinance.

- (c) The erosion and sediment control plan shall address pollution caused by soil erosion and sedimentation during construction and up to final stabilization of the site. The erosion and sediment control plan shall include, at a minimum, the following items:

1. Name(s) and address(es) of the owner and/or developer of the site. The application shall also include start and end dates for construction.
2. Description of the construction site and the nature of the land disturbing construction activity
3. Brief description of the development schedule and timeline
4. Description of the intended sequence of major land disturbing construction activities for major portions of the construction site, including stripping and clearing; rough grading; construction of utilities, infrastructure, and buildings; and final grading and landscaping. Sequencing shall identify the expected date on which clearing will begin, the estimated duration of exposure of cleared areas, areas of clearing, installation of temporary erosion and sediment control measures, and establishment of permanent vegetation.
5. Estimates of the total area of the construction site and the total area of the construction site that is expected to be disturbed by land disturbing construction activities.
6. Calculations to show the compliance with the performance standard.
7. Existing data describing the surface soil as well as subsoils, if needed.
8. Depth to groundwater, if known.

- (d) The erosion and sediment control plan shall include a site map. The site map shall include the following items and shall be at a scale not greater than 100 feet per inch and at a contour interval not to exceed five feet.

1. Existing topography, vegetative cover, natural and engineered drainage systems, roads and surface waters. Lakes, streams, wetlands, channels, ditches and other watercourses on and immediately adjacent to the site shall be shown. Any identified 100-year flood plains, flood fringes and floodways shall also be shown.
2. Boundaries of the construction site.

3. Drainage patterns and approximate slopes anticipated after major grading activities.
 4. Areas of soil disturbance.
 5. Location of major structural and non-structural controls identified in the erosion and sediment control plan.
 6. Location of areas where stabilization BMPs will be employed.
 7. Areas which will be vegetated following land disturbing construction activities.
 8. Area(s) and location(s) of wetland on the construction site, and locations where storm water is discharged to a surface water or wetland within one-quarter mile downstream of the construction site.
 9. Areas(s) used for infiltration of post-construction storm water runoff.
- (e) Each erosion and sediment control plan shall include a description of appropriate control BMPs that will be installed and maintained at the construction site to prevent pollutants from reaching waters of the state. The erosion and sediment control plan shall clearly describe the appropriate erosion and sediment control BMPs for each major land disturbing construction activity and the timing during the period of land disturbing construction activity that the erosion and sediment control BMPs will be implemented. The description of erosion and sediment control BMPs shall include, when appropriate, the following minimum requirements:
1. Description of interim and permanent stabilization practices, including a BMP implementation schedule. The erosion and sediment control plan shall ensure that existing vegetation is preserved where attainable and that disturbed portions of the site are stabilized.
 2. Description of structural practices to divert flow away from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from the site. Unless otherwise specifically approved in writing by the [administering authority], structural measures shall be installed on upland soils.
 3. Management of overland flow at all areas of the construction site, unless otherwise controlled by outfall controls.
 4. Trapping of sediment in channelized flow.
 5. Staging land disturbing construction activities to limit exposed soil areas subject to erosion.
 6. Protection of downslope drainage inlets where they occur.
 7. Minimization of tracking at all vehicle and equipment entry and exit locations of the construction site.
 8. Clean up of off-site sediment deposits.
 9. Proper disposal of building and waste material.
 10. Stabilization of drainage ways.
 11. Installation of permanent stabilization practices as soon as possible after final grading.

12. Minimization of dust to the maximum extent practicable.
- (f) The erosion and sediment control plan shall require that velocity dissipation devices be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected.
- (2) EROSION AND SEDIMENT CONTROL PLAN AMENDMENTS. The applicant shall amend the erosion and sediment control plan if any of the following occur:
- (a) There is a change in design, construction, operation or maintenance at the site which has the reasonable potential for the discharge of pollutants to waters of the state and which has not otherwise been addressed in the erosion and sediment control plan.
- (b) The actions required by the erosion and sediment control plan fail to reduce the impacts of pollutants carried by construction site runoff.
- (c) The Planning and Zoning Department notifies the applicant of changes needed in the erosion and sediment control plan.
9. FEE SCHEDULE
- (1) The fees referred to in other sections of this ordinance shall be established by the [administering authority] and may from time to time be modified by resolution. A schedule of the fees established by the [administering authority] shall be available for review in [location].
10. INSPECTION
- (1) If land disturbing construction activities are occurring without a permit required by this ordinance, the [administering authority] may enter the land pursuant to the provisions of ss. 66.0119 (1), (2), and (3), Wis. Stats.
11. ENFORCEMENT
- (1) The [administering authority] may post a stop work order if any of the following occurs:
- (a) Land disturbing construction activity regulated under this ordinance is occurring without a permit.
- (b) The erosion and sediment control plan is not being implemented in good faith.
- (c) The conditions of the permit are not being met.
- (2) If the responsible party does not cease activity as required in a stop work order posted under this section or fails to comply with the erosion and sediment control plan or permit conditions, the [administering authority] may revoke the permit.
- (3) If the responsible party, where no permit has been issued or the permit has been revoked, does not cease the activity after being notified by the [administering authority], or if a responsible party violates a stop work order posted under sub. (1), the [administering authority] may request the [district attorney, city attorney, town attorney, village attorney or county corporation counsel] to obtain a cease and desist order in any court with jurisdiction.
- (4) The [administering authority, board of appeals, or board of adjustment] may retract the stop work order issued under sub. (1) or the permit revocation under sub. (2).

- (5) After posting a stop work order under sub. (1), the [administering authority] may issue a notice of intent to the responsible party of its intent to perform work necessary to comply with this ordinance. The [administering authority] may go on the land and commence the work after issuing the notice of intent. The costs of the work performed under this subsection by the [administering authority], plus interest at the rate authorized by [administrative authority] shall be billed to the responsible party. In the event a responsible party fails to pay the amount due, the clerk shall enter the amount due on the tax rolls and collect as a special assessment against the property pursuant to subch. VII of ch. 66, Wis. Stats.
- (6) Any person violating any of the provisions of this ordinance shall be subject to a forfeiture of not less than [amount] nor more than [amount] and the costs of prosecution for each violation. Each day a violation exists shall constitute a separate offense.
- (7) Compliance with the provisions of this ordinance may also be enforced by injunction in any court with jurisdiction. It shall not be necessary to prosecute for forfeiture or a cease and desist order before resorting to injunctive proceedings.

12. APPEALS

- (1) BOARD OF ADJUSTMENT The Board of Adjustment created pursuant to section [number] of the County's ordinance pursuant to s. 59.694:
 - (a) Shall hear and decide appeals where it is alleged that there is error in any order, decision or determination made by the [administering authority] in administering this ordinance except for cease and desist orders obtained under S. 13* (3).
 - (b) May authorize, upon appeal, variances from the provisions of this ordinance which are not contrary to the public interest and where owing to special conditions a literal enforcement of the provisions of the ordinance will result in unnecessary hardship; and
 - (c) Shall use the rules, procedures, duties and powers authorized by statute in hearing and deciding appeals and authorizing variances.
- (2) WHO MAY APPEAL. Appeals to the Board of Adjustment may be taken by any aggrieved person or by any office, department or board of Jefferson County affected by any decision of the [administering authority].

13. SEVERABILITY

- (1) If a court of competent jurisdiction judges any section, clause, provision or portion of this ordinance unconstitutional or invalid, the remainder of the ordinance shall remain in force and not be affected by such judgment.

14. EFFECTIVE DATE

- (1) This ordinance shall be in force and effect from and after its adoption and publication. The above and foregoing ordinance was duly adopted by the [governing body] of the [name of municipality] on the [number] day of [month], [year].

Approved: Attested: Published on [day, month, and year].

POST-CONSTRUCTION STORM WATER MANAGEMENT ORDINANCE

July 19, 2023

Table of Contents:

AN ORDINANCE TO CREATE CHAPTER [NUMBER] OF THE [CODE OR ORDINANCE] OF THE [NAME OF MUNICIPALITY] RELATING TO THE CONTROL OF POST-CONSTRUCTION RUNOFF

1. AUTHORITY

- (1) This ordinance is adopted by the [governing body] under the authority granted by s. 59.693, Wis. Stats. This ordinance supersedes all provisions of an ordinance previously enacted under s. 59.69, Wis. Stats., that relate to storm water management regulations. Except as otherwise specified in s. 59.693, Wis. Stats., s. 59.69, Wis. Stats., applies to this ordinance and to any amendments to this ordinance.
- (2) The provisions of this ordinance are deemed not to limit any other lawful regulatory powers of the same governing body.
- (3) The [governing body] hereby designates the [administering authority] to administer and enforce the provisions of this ordinance.
- (4) The requirements of this ordinance do not pre-empt more stringent storm water management requirements that may be imposed by any of the following:
 - (a) Wisconsin Department of Natural Resources administrative rules, permits or approvals including those authorized under ss. 281.16 and 283.33, Wis. Stats.
 - (b) Targeted non-agricultural performance standards promulgated in rules by the Wisconsin Department of Natural Resources under s. NR 151.004, Wis. Adm. Code.

2. FINDINGS OF FACT.

- (1) The [governing body] acknowledges that uncontrolled, post-construction runoff has a significant impact upon water resources and the health, safety and general welfare of the community and diminishes the public enjoyment and use of natural resources. Specifically, uncontrolled post-construction runoff can:
 - (a) Degrade physical stream habitat by increasing stream bank erosion, increasing streambed scour, diminishing groundwater recharge, diminishing stream base flows and increasing stream temperature.
 - (b) Diminish the capacity of lakes and streams to support fish, aquatic life, recreational and water supply uses by increasing pollutant loading of sediment, suspended solids, nutrients, heavy metals, bacteria, pathogens

- and other urban pollutants.
- (c) Alter wetland communities by changing wetland hydrology and by increasing pollutant loads.
- (d) Reduce the quality of groundwater by increasing pollutant loading.
- (e) Threaten public health, safety, property and general welfare by overtaxing storm sewers, drainage ways, and other minor drainage facilities.

3. PURPOSE AND INTENT.

- (1) **PURPOSE.** The general purpose of this ordinance is to establish long-term, post-construction runoff management requirements that will diminish the threats to public health, safety, welfare and the aquatic environment. Specific purposes are to:
 - (a) Further the maintenance of safe and healthful conditions.
 - (b) Prevent and control the adverse effects of storm water; prevent and control soil erosion; prevent and control water pollution; protect spawning grounds, fish and aquatic life; control building sites, placement of structures and land uses; preserve ground cover and scenic beauty; and promote sound economic growth.
 - (c) Control exceedance of the safe capacity of existing drainage facilities and receiving water bodies; prevent undue channel erosion; and control increases in the scouring and transportation of particulate matter.
 - (d) Minimize the amount of pollutants discharged from the separate storm sewer to protect the waters of the state.
- (2) **INTENT.** It is the intent of the [governing body] that this ordinance regulates post-construction storm water discharges to waters of the state. This ordinance may be applied on a site-by-site basis. The [governing body] recognizes, however, that the preferred method of achieving the storm water performance standards set forth in this ordinance is through the preparation and implementation of comprehensive, systems-level storm water management plans that cover hydrologic units, such as watersheds, on a municipal and regional scale. Such plans may prescribe regional storm water devices, practices or systems, any of which may be designed to treat runoff from more than one site prior to discharge to waters of the state. Where such plans are in conformance with the performance standards developed under s. 281.16, Wis. Stats., for regional storm water management measures and have been approved by the [governing body], it is the intent of this ordinance that the approved storm water management plan be used to identify post-construction management measures acceptable for the community.

4. APPLICABILITY

- (1) **APPLICABILITY.**
 - a. Unless otherwise exempted under sub. 2 or waived under sub 3., a stormwater management plan approval under Section XXX shall be required, and all provisions of this ordinance shall apply, to all land development activity, whether or not the activity is associated with a subdivision, that meet any of the following criteria:

- i. Results in the addition of impervious surfaces of 20,000 square feet or greater in total area, including smaller individual sites that area part of the common plan of development;
 - ii. one acre or more of land disturbing construction activity occurs during construction,
 - iii. land disturbing construction activity less than one acre, but is part of a larger construction site that disturbs a total of one acre or more;
 - iv. Involves the construction of any new public or private roads;
 - v. Divides an existing parcel into 5 or more lots;
- b. Notwithstanding the applicability requirements in par. (a), this ordinance applies to post- construction sites of any size that, as determined by the Planning and Zoning Committee, are likely to result in runoff that exceeds the safe capacity of the existing drainage facilities or receiving body of water, causes undue channel erosion, or increases water pollution by scouring or the transportation of particulate matter, or endangerment of property or public safety.

Commented [MZ1]: Does impervious surface include driveways? Gravel areas? Should be only look at structures for this section? If single family homes and ag are exempt, this would then only apply to other residential projects and business/industrial issues. Should it be based on the zoning district?

Commented [MZ2]: Combination of Rock and Dodge, with input from workgroup

2. Exemptions.

a. This ordinance does not apply to the following:

- i. The construction of one and two family residential homes if all of the following apply:
 - 1. A building permit has been obtained from the local building inspector which includes erosion control practices;
 - 2. Total land disturbance is less than 1 acre;
 - 3. The building site and majority of land disturbance is greater than 300 feet from the OHWM;
- ii. Agricultural facilities and practices: see section 8.(3). ~~include land disturbing activities directly involved with the planting, growing and harvesting of any plant grown for human or animal consumption and pasturing or yarding of livestock;~~
- iii. Silviculture Activities: see section 8.(3). ~~include land disturbing activities directly relating to nursery operations and sod farms;~~
- iv. Routine maintenance for project sites under 1 acres of land disturbance if performed to maintain the original line and grade, hydraulic capacity or original purpose of the facility;
- v. Land disturbing activities conducted, or contracted by, any state agency, as defined under sec. 227.01 (1), Wis. Stats., but also including the office of district attorney which are subject to the state storm water management plan promulgated or a memorandum of understanding entered into under sec. 281.33 (2), Wis. Stats.;
- vi. Post-construction sites with less than 10 percent connected imperviousness, based on complete development of the post-construction site, provided the cumulative area of all impervious surfaces is less than one acre;
- vii. Underground utility construction such as water, sewer, and fiber optic lines. This exemption does not apply to the construction of any above ground structures associated with utility construction;

Commented [MZ3]: Thoughts?

Commented [MZ4]: Thoughts? Should single family homes be exempt from stormwater permits?

Commented [MZ5]: Remove?

viii. Any land disturbing activity that is designed and/or certified by the Land and Water Conservation Department or the Natural Resources Conservation Service (NRCS) of the United States Department of Agriculture as part of a soil conservation or water pollution control project shall comply with all of the requirements of this ordinance, but shall be exempted from obtaining a permit.

- b. Any land disturbing activity that is designed and/or certified by the LCD or the Natural Resources Conservation Service (NRCS) of the United States Department of Agriculture as part of a soil conservation or water pollution control project shall comply with all of the requirements of this ordinance, but shall be exempted from obtaining a permit, providing a financial guarantee, or paying fees under sec. 4.809.
- c. Any land disturbing activity that is conducted by or for the County, or by or for any city, town or village on lands located within the County, shall comply with all of the requirements of this ordinance, including obtaining a permit and submitting a storm water management plan, but shall be exempted from providing a financial guarantee, or paying fees under sec. 4.809.
 - i. At the discretion of the LCD, for land disturbing activity that is conducted by or for the County, a qualified employee of the county department, or contracted agent, undertaking the construction activity may administer the permit.
- d. Any land disturbing activities conducted on sites which were included as part of a previously completed storm water management plan that was approved under this ordinance shall be exempt from obtaining a permit, provided:
 - i. new activities do not render the existing storm water BMPs less effective; or,
 - ii. new site development exceeds the assumptions made in the calculations used in development of the previous plan.

5. WAIVERS

- (1) The XXX may waive any or all of the requirements of this ordinance if the XXX determines that:
 - (a) A requirement is not necessary for a particular site to ensure compliance with the intent of this ordinance; or,
 - (b) Storm water runoff from the land disturbing site activities will have no appreciable off-site impact.
- (2) The applicant shall demonstrate to the Zoning Administrator that a performance standard is not achievable and that a lower level of performance is appropriate. In making the assertion that a performance standard is not achievable and that a level of performance different from the performance standard is the maximum extent practicable, the applicant shall take into account the best available technology, cost effectiveness, geographic features, and other competing interests such as protection of public safety and welfare, protection of endangered and threatened resources, and preservation of historic properties.

6. JURISDICTION.

- (1) This ordinance applies to post construction sites within the boundaries and

jurisdiction of the Jefferson County.

7. EXCLUSIONS.

- (1) This ordinance is not applicable to activities conducted by a state agency, as defined under s.227.01 (1), Wis. Stats.

8. DEFINITIONS.

- (1) "Adequate sod, or self-sustaining vegetative cover" means maintenance of sufficient vegetation types and densities such that the physical integrity of the streambank or lakeshore is preserved. Self-sustaining vegetative cover includes grasses, forbs, sedges and duff layers of fallen leaves and woody debris.
- (2) "Administering authority" means a governmental employee, or a regional planning commission empowered under s. [59.693; 60.627; 61.354; or 62.234], Wis. Stats., that is designated by the [governing body] to administer this ordinance.
- (3) "Agricultural facilities and practices" has the meaning in s. 281.16 (1), Wis. Stats.
 - (a) Agricultural facility: a structure associated with an agricultural practice.
 - (b) Agricultural practice: beekeeping; commercial feedlots; dairying; egg production; floriculture; fish or fur farming; grazing; livestock raising; orchards; poultry raising; raising of grain, grass, mint and seed crops; raising of fruits, nuts and berries; sod farming; placing land in federal programs in return for payments in kind; owning land, at least 35 acres of which is enrolled in the conservation reserve program under 16 USC 3831 to 3836; and vegetable raising.
- (4) "Atlas 14" means the National Oceanic and Atmospheric Administration (NOAA) Atlas 14 Precipitation-Frequency Atlas of the United States, Volume 8 (Midwestern States), published in 2013.
- (5) "Average annual rainfall" means a typical calendar year of precipitation as determined by the Wisconsin Department of Natural Resources for users of models such as WinSLAMM, P8 or equivalent methodology. The average annual rainfall is chosen from a department publication for the location closest to the municipality.
- (6) "Best management practice" or "BMP" means structural or non-structural measures, practices, techniques or devices employed to avoid or minimize sediment or pollutants carried in runoff to waters of the state.
- (7) "Business day" means a day the office of the [administering authority] is routinely and customarily open for business.
- (8) "Cease and desist order" means a court-issued order to halt land disturbing construction activity that is being conducted without the required permit or in violation of a permit issued by the [administering authority].
- (9) "Combined sewer system" means a system for conveying both sanitary sewage and storm water runoff.
- (10) "Connected imperviousness" means an impervious surface connected to the waters of the state via a separate storm sewer, an impervious flow path, or a minimally pervious flow path.
- (11) "Design storm" means a hypothetical discrete rainstorm characterized by a specific duration, temporal distribution, rainfall intensity, return frequency and total depth of rainfall.
- (12) "Development" means residential, commercial, industrial or institutional land uses

- and associated roads.
- (13) "Direct conduits to groundwater" means wells, sinkholes, swallets, fractured bedrock at the surface, mine shafts, non-metallic mines, tile inlets discharging to groundwater, quarries, or depressional groundwater recharge areas over shallow fractured bedrock.
 - (14) "Division of land" means the creation from one parcel of [number] or more parcels or building sites of [number] or fewer acres each in area where such creation occurs at one time or through the successive partition within a 5-year period. **Note to Users: This definition is only needed depending on the type of jurisdiction selected under**
 - (15) "Effective infiltration area" means the area of the infiltration system that is used to infiltrate runoff and does not include the area used for site access, berms or pretreatment.
 - (16) "Erosion" means the process by which the land's surface is worn away by the action of wind, water, ice or gravity.
 - (17) "Exceptional resource waters" means waters listed in s. NR 102.11, Wis. Adm. Code.
 - (18) "Filtering layer" means soil that has at least a 3-foot deep layer with at least 20 percent fines; or at least a 5-foot deep layer with at least 10 percent fines; or an engineered soil with an equivalent level of protection as determined by the regulatory authority for the site.
 - (19) "Final stabilization" means that all land disturbing construction activities at the construction site have been completed and that a uniform perennial vegetative cover has been established with a density of at least 70 percent of the cover for the unpaved areas and areas not covered by permanent structures or that employ equivalent permanent stabilization measures.
 - (20) "Financial guarantee" means a performance bond, maintenance bond, surety bond, irrevocable letter of credit, or similar guarantees submitted to the [administering authority] by the responsible party to assure that requirements of the ordinance are carried out in compliance with the storm water management plan.
 - (21) "Governing body" means town board of supervisors, county board of supervisors, city council, village board of trustees or village council.
 - (22) "Impervious surface" means an area that releases as runoff all or a large portion of the precipitation that falls on it, except for frozen soil. Rooftops, sidewalks, driveways, gravel or paved parking lots and streets are examples of areas that typically are impervious.
 - (23) "In-fill" means an undeveloped area of land located within an existing urban sewer service area, surrounded by development or development and natural or man-made features where development cannot occur.
 - (24) "Infiltration" means the entry of precipitation or runoff into or through the soil.
 - (25) "Infiltration system" means a device or practice such as a basin, trench, rain garden or swale designed specifically to encourage infiltration, but does not include natural infiltration in pervious surfaces such as lawns, redirecting of rooftop downspouts onto lawns or minimal infiltration from practices, such as swales or road side channels designed for conveyance and pollutant removal only.
 - (26) "Land disturbing construction activity" means any man-made alteration of the land surface resulting in a change in the topography or existing vegetative or non-vegetative soil cover, that may result in runoff and lead to an increase in soil erosion and movement of sediment into waters of the state. Land disturbing construction

- activity includes clearing and grubbing, demolition, excavating, pit trench dewatering, filling and grading activities.
- (27) "Landowner" means any person holding fee title, an easement or other interest in property, which allows the person to undertake cropping, livestock management, land disturbing construction activity or maintenance of storm water BMPs on the property.
 - (28) "Maintenance agreement" means a legal document that provides for long-term maintenance of storm water management practices.
 - (29) "Maximum extent practicable" means the highest level of performance that is achievable but is not equivalent to a performance standard identified in this ordinance as determined in accordance with S. 055 of this ordinance.
 - (30) "New development" means development resulting from the conversion of previously undeveloped land or agricultural land uses.
 - (31) "NRCS MSE3 or MSE4 distribution" means a specific precipitation distribution developed by the United States Department of Agriculture, Natural Resources Conservation Service, using precipitation data from Atlas 14.
 - (32) "Off-site" means located outside the property boundary described in the permit application.
 - (33) "On-site" means located within the property boundary described in the permit application.
 - (34) "Ordinary high-water mark" has the meaning given in s. NR 115.03 (6), Wis. Adm. Code.
 - (35) "Outstanding resource waters" means waters listed in s. NR 102.10, Wis. Adm. Code.
 - (36) "Percent fines" means the percentage of a given sample of soil, which passes through a # 200 sieve.
 - (37) "Performance standard" means a narrative or measurable number specifying the minimum acceptable outcome for a facility or practice.
 - (38) "Permit" means a written authorization made by the [administering authority] to the applicant to conduct land disturbing construction activity or to discharge post-construction runoff to waters of the state.
 - (39) "Permit administration fee" means a sum of money paid to the [administering authority] by the permit applicant for the purpose of recouping the expenses incurred by the authority in administering the permit.
 - (40) "Pervious surface" means an area that releases as runoff a small portion of the precipitation that falls on it. Lawns, gardens, parks, forests or other similar vegetated areas are examples of surfaces that typically are pervious.
 - (41) "Pollutant" has the meaning given in s. 283.01 (13), Wis. Stats.
 - (42) "Pollution" has the meaning given in s. 281.01 (10), Wis. Stats.
 - (43) "Post-construction site" means a construction site following the completion of land disturbing construction activity and final site stabilization.
 - (44) "Pre-development condition" means the extent and distribution of land cover types present before the initiation of land disturbing construction activity, assuming that all land uses prior to development activity are managed in an environmentally sound manner.
 - (45) "Preventive action limit" has the meaning given in s. NR 140.05 (17), Wis. Adm. Code.
 - (46) "Protective area" means an area of land that commences at the top of the channel

- of lakes, streams and rivers, or at the delineated boundary of wetlands, and that is the greatest of the following widths, as measured horizontally from the top of the channel or delineated wetland boundary to the closest impervious surface.
- (47) "Redevelopment" means areas where development is replacing older development.
- (48) "Responsible party" means the landowner or any other entity performing services to meet the requirements of this ordinance through a contract or other agreement. "Runoff" means storm water or precipitation including rain, snow or ice melt or similar water that moves on the land surface via sheet or channelized flow.
- (49) "Separate storm sewer" means a conveyance or system of conveyances including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, constructed channels or storm drains, which meets all of the following criteria:
- (a) Is designed or used for collecting water or conveying runoff.
 - (b) Is not part of a combined sewer system.
 - (c) Is not part of a publicly owned wastewater treatment works that provides secondary or more stringent treatment.
 - (d) Discharges directly or indirectly to waters of the state.
- (50) "Silviculture activity" means activities including tree nursery operations, tree harvesting operations, reforestation, tree thinning, prescribed burning, and pest and fire control. Clearing and grubbing of an area of a construction site is not a silviculture activity.
- (51) "Site" means the entire area included in the legal description of the land on which the land disturbing construction activity occurred.
- (52) "Stop work order" means an order issued by the [administering authority] which requires that all construction activity on the site be stopped.
- (53) "Storm water management plan" means a comprehensive plan designed to reduce the discharge of pollutants from storm water, after the site has undergone final stabilization, following completion of the construction activity.
- (54) "Storm water management system plan" is a comprehensive plan designed to reduce the discharge of runoff and pollutants from hydrologic units on a regional or municipal scale.
- (55) "Technical standard" means a document that specifies design, predicted performance and operation and maintenance specifications for a material, device or method.
- (56) "Top of the channel" means an edge, or point on the landscape landward from the ordinary high- water mark of a surface water of the state, where the slope of the land begins to be less than 12 percent continually for at least 50 feet. If the slope of the land is 12 percent or less continually for the initial 50 feet landward from the ordinary high-water mark, the top of the channel is the ordinary high-water mark.
- (57) "Total maximum daily load" or "TMDL" means the amount of pollutants specified as a function of one or more water quality parameters, that can be discharged per day into a water quality limited segment and still ensure attainment of the applicable water quality standard.
- (58) "TP-40" means Technical Paper No. 40, Rainfall Frequency Atlas of the United States, published in 1961.
- (59) "TR-55" means the United States department of agriculture, natural resources conservation service (previously soil conservation service), Urban Hydrology for Small Watersheds, Second Edition, Technical Release 55, June 1986, which is incorporated by reference for this chapter.

- (60) "Transportation facility" means a highway, a railroad, a public mass transit facility, a public-use airport, a public trail or any other public work for transportation purposes such as harbor improvements under s. 85.095 (1)(b), Wis. Stats. "Transportation facility" does not include building sites for the construction of public buildings and buildings that are places of employment that are regulated by the Department pursuant to s. 281.33, Wis. Stats.
- (61) "TSS" means total suspended solids.
- (62) "Type II distribution" means a rainfall type curve as established in the "United States Department of Agriculture, Soil Conservation Service, Technical Paper 149, published in 1973".
- (63) "Waters of the state" includes those portions of Lake Michigan and Lake Superior within the boundaries of this state, and all lakes, bays, rivers, streams, springs, ponds, wells, impounding reservoirs, marshes, watercourses, drainage systems and other surface water or groundwater, natural or artificial, public or private, within this state or its jurisdiction.

9. APPLICABILITY OF MAXIMUM EXTENT PRACTICABLE.

- (1) Maximum extent practicable applies when a person who is subject to a performance standard of this ordinance demonstrates to the [administering authority]'s satisfaction that a performance standard is not achievable and that a lower level of performance is appropriate. In making the assertion that a performance standard is not achievable and that a level of performance different from the performance standard is the maximum extent practicable, the responsible party shall take into account the best available technology, cost effectiveness, geographic features, and other competing interests such as protection of public safety and welfare, protection of endangered and threatened resources, and preservation of historic properties.

10. TECHNICAL STANDARDS.

- (1) The following methods shall be used in designing the water quality, peak discharge, and infiltration components of storm water practices needed to meet the water quality standards of this ordinance:
 - (a) Consistent with the technical standards identified, developed or disseminated by the Wisconsin Department of Natural Resources under subchapter V of chapter NR 151, Wis. Adm. Code.
 - (b) Where technical standards have not been identified or developed by the Wisconsin Department of Natural Resources, other technical standards may be used provided that the methods have been approved by the [administering authority].

11. PERFORMANCE STANDARDS.

- (1) RESPONSIBLE PARTY. The responsible party shall comply with this section.

- (2) **STORM WATER MANAGEMENT PLAN.** A written storm water management plan in accordance with S. 09 shall be developed and implemented for each post-construction site.
- (3) **MAINTENANCE OF EFFORT.** For redevelopment sites where the redevelopment will be replacing older development that was subject to post-construction performance standards of NR 151 in effect on or after October 1, 2004, the responsible party shall meet the total suspended solids reduction, peak flow control, infiltration, and protective areas standards applicable to the older development or meet the redevelopment standards of this ordinance, whichever is more stringent.
- (4) **REQUIREMENTS.** The storm water management plan required under sub. (2) shall include the following:
 - (a) **TOTAL SUSPENDED SOLIDS.** BMPs shall be designed, installed and maintained to control total suspended solids carried in runoff from the post-construction site as follows:
 - i. BMPs shall be designed in accordance with Table 1. or to the maximum extent practicable as provided in subd. 2. The design shall be based on an average annual rainfall, as compared to no runoff management controls.

Development Type	TSS Reduction
New Development	80 percent
In-fill development	80 percent
Redevelopment	40 percent of load from parking areas and roads

- ii. **Maximum Extent Practicable.** If the design cannot meet a total suspended solids reduction performance standard of Table 1., the storm water management plan shall include a written, site-specific explanation of why the total suspended solids reduction performance standard cannot be met and why the total suspended solids load will be reduced only to the maximum extent practicable.
- iii. **Off-Site Drainage.** When designing BMPs, runoff draining to the BMP from off- site shall be taken into account in determining the treatment efficiency of the practice. Any impact on the efficiency shall be compensated for by increasing the size of the BMP accordingly.

- (b) **PEAK DISCHARGE.**
 - i. By design, BMPs shall be employed to maintain or reduce the 1-year, 24-hour; and the 2-year, 24-hour post-construction peak runoff discharge rates to the 1- year, 24-hour; and the 2-year, 24-hour pre-development peak runoff discharge rates respectively, or to the maximum extent practicable. The runoff curve numbers in Table 2. shall be used to represent the actual pre-development

Commented [MZ6]: 1 year, 24 hr - 2.46
 2year, 24 hr - 2.79
https://hdsc.nws.noaa.gov/pfds/pfds_map_cont.html?bkmrk=wi

conditions. Peak discharges shall be calculated using TR-55 runoff curve number methodology, Atlas 14 precipitation depths, and the appropriate NRCS, Wisconsin MSE3 or MSE4 precipitation distribution. On a case-by-case basis, the [administering authority] may allow the use of TP-40 precipitation depths and the Type II distribution.

Table 2. Maximum Pre-Development Runoff Curve Numbers

Runoff Curve Number	Hydrologic Soil Group			
	A	B	C	D
Woodland	30	55	70	77
Grassland	39	61	71	78
Cropland	55	69	78	83

- ii. This subsection of the ordinance does not apply to any of the following:
 - a. A post-construction site where the discharge is directly into a lake over 5,000 acres or a stream or river segment draining more than 500 square miles
 - b. Except as provided under S. 07 (3), a redevelopment post-construction site.
 - c. An in-fill development area less than 5 acres.
- (c) INFILTRATION.
 - i. Best Management Practices. BMPs shall be designed, installed, and maintained to infiltrate runoff in accordance with the following or to the maximum extent practicable:
 - a. Low imperviousness. For development up to 40 percent connected imperviousness, such as parks, cemeteries, and low density residential development, infiltrate sufficient runoff volume so that the post- development infiltration volume shall be at least 90 percent of the pre- development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than one percent of the post-construction site is required as an effective infiltration area.
 - b. Moderate imperviousness. For development with more than 40 percent and up to 80 percent connected imperviousness, such as medium and high density residential, multi-family development, industrial and institutional development, and office parks, infiltrate sufficient runoff volume so that the post-development infiltration volume shall be at least 75 percent of the pre-development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than 2 percent of the post- construction site is required as an effective infiltration area.

- c. High imperviousness. For development with more than 80 percent connected imperviousness, such as commercial strip malls, shopping centers, and commercial downtowns, infiltrate sufficient runoff volume so that the post-development infiltration volume shall be at least 60 percent of the pre-development infiltration volume, based on an average annual rainfall. However, when designing appropriate infiltration systems to meet this requirement, no more than 2 percent of the post-construction site is required as an effective infiltration area.
- ii. Pre-development. The pre-development condition shall be the same as specified in Table 2 of the Peak Discharge section of this ordinance.
- iii. Source Areas.
 - a. Prohibitions. Runoff from the following areas may not be infiltrated and may not qualify as contributing to meeting the requirements of this section unless demonstrated to meet the conditions identified in S. 07 (4)(c)6.:
 - i. Areas associated with a tier 1 industrial facility identified in s. NR 216.21 (2)(a), including storage, loading and parking. Rooftops may be infiltrated with the concurrence of the regulatory authority.
 - ii. Storage and loading areas of a tier 2 industrial facility identified in s. NR 216.21 (2)(b).
 - iii. Fueling and vehicle maintenance areas. Runoff from rooftops of fueling and vehicle maintenance areas may be infiltrated with the concurrence of the regulatory authority.
 - b. Exemptions. Runoff from the following areas may be credited toward meeting the requirement when infiltrated, but the decision to infiltrate runoff from these source areas is optional:
 - i. Parking areas and access roads less than 5,000 square feet for commercial development.
 - ii. Parking areas and access roads less than 5,000 square feet for industrial development not subject to the Prohibitions under par a.
 - iii. Except as provided under S. 07 (3), redevelopment post-construction sites.
 - iv. In-fill development areas less than 5 acres.
 - v. Roads on commercial, industrial and institutional land uses, and arterial residential roads.
- iv. Location of Practices.
 - a. Prohibitions. Infiltration practices may not be located in the following areas:
 - i. Areas within 1000 feet upgradient or within 100 feet downgradient of direct conduits to groundwater.
 - ii. Areas within 400 feet of a community water system well as specified in s. NR 811.16 (4) or within the separation

- iii. Areas where contaminants of concern, as defined in s. NR 720.03 (2), are present in the soil through which infiltration will occur.
- b. Separation distances.
 - i. Infiltration practices shall be located so that the characteristics of the soil and the separation distance between the bottom of the infiltration system and the elevation of seasonal high groundwater or the top of bedrock are in accordance with Table 3:

Source Area	Separation Distance	Soil Characteristics
Industrial, Commercial, Institutional Parking Lots and Roads	5 feet or more	Filtering Layer
Residential Arterial Roads	5 feet or more	Filtering Layer
Roofs Draining to Subsurface Infiltration Practices	1 foot or more	Native or Engineered Soil with Particles Finer than Coarse Sand
Roofs Draining to Surface Infiltration Practices	Not Applicable	Not Applicable
All Other Impervious Source Areas	3 feet or more	Filtering Layer

- ii. Notwithstanding par. b., applicable requirements for injection wells classified under ch. NR 815 shall be followed.
- c. Infiltration rate exemptions. Infiltration practices located in the following areas may be credited toward meeting the requirements under the following conditions, but the decision to infiltrate under these conditions is optional:
 - i. Where the infiltration rate of the soil measured at the proposed bottom of the infiltration system is less than 0.6 inches per hour using a scientifically credible field test method.
 - ii. Where the least permeable soil horizon to 5 feet below the proposed bottom of the infiltration system using the U.S. Department of Agriculture method of soils analysis is one of the following: sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, or clay.
- v. Alternate Use. Where alternate uses of runoff are employed, such as for toilet flushing, laundry, or irrigation or storage on green roofs where an equivalent portion of the runoff is captured permanently

by rooftop vegetation, such alternate use shall be given equal credit toward the infiltration volume required by this section.

- vi. Groundwater Standards.
 - a. Infiltration systems designed in accordance with this section shall, to the extent technically and economically feasible, minimize the level of pollutants infiltrating to groundwater and shall maintain compliance with the preventive action limit at a point of standards application in accordance with ch. NR 140. However, if site specific information indicates that compliance with a preventive action limit is not achievable, the infiltration BMP may not be installed or shall be modified to prevent infiltration to the maximum extent practicable.
 - b. Notwithstanding par. a., the discharge from BMPs shall remain below the enforcement standard at the point of standards application.
 - vii. Pretreatment. Before infiltrating runoff, pretreatment shall be required for parking lot runoff and for runoff from new road construction in commercial, industrial and institutional areas that will enter an infiltration system. The pretreatment shall be designed to protect the infiltration system from clogging prior to scheduled maintenance and to protect groundwater quality in accordance with subd. 6. Pretreatment options may include, but are not limited to, oil and grease separation, sedimentation, biofiltration, filtration, swales or filter strips.
 - viii. Maximum Extent Practicable. Where the conditions of subd. 3. and 4. limit or restrict the use of infiltration practices, the performance standard of S. 07 (4)(c) shall be met to the maximum extent practicable.
- (d) PROTECTIVE AREAS.
- i. Definition. In this section, "protective area" means an area of land that commences at the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands, and that is the greatest of the following widths, as measured horizontally from the top of the channel or delineated wetland boundary to the closest impervious surface. However, in this section, "protective area" does not include any area of land adjacent to any stream enclosed within a pipe or culvert, so that runoff cannot enter the enclosure at this location.
 - a. For outstanding resource waters and exceptional resource waters, 75 feet.
 - b. For perennial and intermittent streams identified on a U.S. Geological Survey 7.5-minute series topographic map, or a county soil survey map, whichever is more current, 50 feet.
 - c. For lakes, 50 feet.
 - d. For wetlands not subject to par. e. or f., 50 feet.
 - e. For highly susceptible wetlands, 75 feet. Highly susceptible wetlands include the following types: calcareous fens, sedge meadows, open and coniferous bogs, low prairies, coniferous

- swamps, lowland hardwood swamps, and ephemeral ponds.
- f. For less susceptible wetlands, 10 percent of the average wetland width, but no less than 10 feet nor more than 30 feet. Less susceptible wetlands include: degraded wetland dominated by invasive species such as reed canary grass; cultivated hydric soils; and any gravel pits, or dredged material or fill material disposal sites that take on the attributes of a wetland.
 - g. In pars. d. to f., determinations of the extent of the protective area adjacent to wetlands shall be made on the basis of the sensitivity and runoff susceptibility of the wetland in accordance with the standards and criteria in s. NR 103.03.
 - h. Wetland boundary delineation shall be made in accordance with s. NR 103.08 (1m). This paragraph does not apply to wetlands that have been completely filled in compliance with all applicable state and federal regulations. The protective area for wetlands that have been partially filled in compliance with all applicable state and federal regulations shall be measured from the wetland boundary delineation after a fill has been placed. Where there is a legally authorized wetland fill, the protective area standard need not be met in that location.
 - i. For concentrated flow channels with drainage areas greater than 130 acres, 10 feet.
 - j. Notwithstanding pars. a. to i., the greatest protective area width shall apply where rivers, streams, lakes and wetlands are contiguous.
- ii. Applicability. This section applies to post-construction sites located within a protective area, except those areas exempted pursuant to subd. 4.
 - iii. Requirements. The following requirements shall be met:
 - a. Impervious surfaces shall be kept out of the protective area entirely or to the maximum extent practicable. If there is no practical alternative to locating an impervious surface in the protective area, the storm water management plan shall contain a written, site-specific explanation.
 - b. Where land disturbing construction activity occurs within a protective area, adequate sod or self-sustaining vegetative cover of 70 percent or greater shall be established and maintained where no impervious surface is present. The adequate sod or self-sustaining vegetative cover shall be sufficient to provide for bank stability, maintenance of fish habitat, and filtering of pollutants from upslope overland flow areas under sheet flow conditions. Non-vegetative materials, such as rock riprap, may be employed on the bank as necessary to prevent erosion such as on steep slopes or where high velocity flows occur.
 - c. BMPs such as filter strips, swales, or wet detention ponds, that are designed to control pollutants from non-point sources, may be located in the protective area.

- iv. Exemptions. This section does not apply to any of the following:
 - a. Except as provided under S. 07 (3), redevelopment post-construction sites.
 - b. In-fill development areas less than 5 acres.
 - c. Structures that cross or access surface water such as boat landings, bridges, and culverts.
 - d. Structures constructed in accordance with s. 59.692 (1v), Stats.
 - e. Areas of post-construction sites from which the runoff does not enter the surface water, including wetlands, without first being treated by a BMP to meet the local ordinance requirements for total suspended solids and peak flow reduction, except to the extent that vegetative ground cover is necessary to maintain bank stability.
- (e) FUELING AND MAINTENANCE AREAS. Fueling and vehicle maintenance areas shall have BMPs designed, installed, and maintained to reduce petroleum within runoff, so that the runoff that enters waters of the state contains no visible petroleum sheen, or to the maximum extent practicable.
- (5) GENERAL CONSIDERATIONS FOR STORM WATER MANAGEMENT MEASURES. The following considerations shall be observed in on-site and off-site runoff management:
 - (a) Natural topography and land cover features such as natural swales, natural depressions, native soil infiltrating capacity, and natural groundwater recharge areas shall be preserved and used, to the extent possible, to meet the requirements of this section.
 - (b) Emergency overland flow for all storm water facilities shall be provided to prevent exceeding the safe capacity of downstream drainage facilities and prevent endangerment of downstream property or public safety.
- (6) BMP LOCATION.
 - (a) To comply with the performance standards required under S. 07 of this ordinance, BMPs may be located on-site or off-site as part of a regional storm water device, practice or system, but shall be installed in accordance with s. NR 151.003, Wis. Adm. Code.
 - (b) The [administering authority] may approve off-site management measures provided that all of the following conditions are met:
 - i. The [administering authority] determines that the post-construction runoff is covered by a storm water management system plan that is approved by the [name of municipality] and that contains management requirements consistent with the purpose and intent of this ordinance.
 - ii. The off-site facility meets all of the following conditions:
 - a. The facility is in place.
 - b. The facility is designed and adequately sized to provide a level of storm water control equal to or greater than that which would be afforded by on-site practices meeting the performance standards of this ordinance.
 - c. The facility has a legally obligated entity responsible for its long-term operation and maintenance.

- (c) Where a regional treatment option exists such that the [administering authority] exempts the applicant from all or part of the minimum on-site storm water management requirements, the applicant shall be required to pay a fee in an amount determined in negotiation with the [administering authority]. In determining the fee for post-construction runoff, the [administering authority] shall consider an equitable distribution of the cost for land, engineering design, construction, and maintenance of the regional treatment option.
 - (7) ADDITIONAL REQUIREMENTS. The [administering authority] may establish storm water management requirements more stringent than those set forth in this ordinance if the [administering authority] determines that the requirements are needed to control storm water quantity or control flooding, comply with federally approved total maximum daily load requirements, or control pollutants associated with existing development or redevelopment.
12. PERMITTING REQUIREMENTS, PROCEDURES AND FEES.
- (1) PERMIT REQUIRED. No responsible party may undertake a land disturbing construction activity without receiving a post-construction runoff permit from the [administering authority] prior to commencing the proposed activity.
 - (2) PERMIT APPLICATION AND FEES. Unless specifically excluded by this ordinance, any responsible party desiring a permit shall submit to the [administering authority] a permit application on a form provided by the [administering authority] for that purpose.
 - (a) Unless otherwise excluded by this ordinance, a permit application must be accompanied by a storm water management plan, a maintenance agreement and a non-refundable permit administration fee.
 - (b) The storm water management plan shall be prepared to meet the requirements of S. 07 and S. 09, the maintenance agreement shall be prepared to meet the requirements of S. 10, the financial guarantee shall meet the requirements of S. 11, and fees shall be those established by the [governing body] as set forth in S. 12.
 - (3) PERMIT APPLICATION REVIEW AND APPROVAL. The [administering authority] shall review any permit application that is submitted with a storm water management plan, maintenance agreement, and the required fee. The following approval procedure shall be used:
 - (a) Within [number] business days of the receipt of a complete permit application, including all items as required by sub. (2), the [administering authority] shall inform the applicant whether the application, storm water management plan and maintenance agreement are approved or disapproved based on the requirements of this ordinance.
 - (b) If the storm water permit application, storm water management plan and maintenance agreement are approved, or if an agreed upon payment of fees in lieu of storm water management practices is made, the [administering authority] shall issue the permit.
 - (c) If the storm water permit application, storm water management plan or maintenance agreement is disapproved, the [administering authority] shall detail in writing the reasons for disapproval.

- (d) The [administering authority] may request additional information from the applicant. If additional information is submitted, the [administering authority] shall have [number] business days from the date the additional information is received to inform the applicant that the storm water management plan and maintenance agreement are either approved or disapproved.
 - (e) Failure by the [administering authority] to inform the permit applicant of a decision within [number] business days of a required submittal shall be deemed to mean approval of the submittal and the applicant may proceed as if a permit had been issued.
- (4) PERMIT REQUIREMENTS. All permits issued under this ordinance shall be subject to the following conditions, and holders of permits issued under this ordinance shall be deemed to have accepted these conditions. The [administering authority] may suspend or revoke a permit for violation of a permit condition, following written notification of the responsible party. An action by the [administering authority] to suspend or revoke this permit may be appealed in accordance with S. 14.
- (a) Compliance with this permit does not relieve the responsible party of the responsibility to comply with other applicable federal, state, and local laws and regulations.
 - (b) The responsible party shall design and install all structural and non-structural storm water management measures in accordance with the approved storm water management plan and this permit.
 - (c) The responsible party shall notify the [administering authority] at least [number] business days before commencing any work in conjunction with the storm water management plan, and within [number] business days upon completion of the storm water management practices. If required as a special condition under sub. (5), the responsible party shall make additional notification according to a schedule set forth by the [administering authority] so that practice installations can be inspected during construction.
 - (d) Practice installations required as part of this ordinance shall be certified "as built" or "record" drawings by a licensed professional engineer. Completed storm water management practices must pass a final inspection by the [administering authority] or its designee to determine if they are in accordance with the approved storm water management plan and ordinance. The [administering authority] or its designee shall notify the responsible party in writing of any changes required in such practices to bring them into compliance with the conditions of this permit.
 - (e) The responsible party shall notify the [administering authority] of any significant modifications it intends to make to an approved storm water management plan. The [administering authority] may require that the proposed modifications be submitted to it for approval prior to incorporation into the storm water management plan and execution by the responsible party.
 - (f) The responsible party shall maintain all storm water management practices in accordance with the storm water management plan until the practices either become the responsibility of the [governing body], or are

transferred to subsequent private owners as specified in the approved maintenance agreement.

- (g) The responsible party authorizes the [administering authority] to perform any work or operations necessary to bring storm water management measures into conformance with the approved storm water management plan, and consents to a special assessment or charge against the property as authorized under subch. VII of ch. 66, Wis. Stats., or to charging such costs against the financial guarantee posted under S. 11.
 - (h) If so directed by the [administering authority], the responsible party shall repair at the responsible party's own expense all damage to adjoining municipal facilities and drainage ways caused by runoff, where such damage is caused by activities that are not in compliance with the approved storm water management plan.
 - (i) The responsible party shall permit property access to the [administering authority] or its designee for the purpose of inspecting the property for compliance with the approved storm water management plan and this permit.
 - (j) Where site development or redevelopment involves changes in direction, increases in peak rate and/or total volume of runoff from a site, the [administering authority] may require the responsible party to make appropriate legal arrangements with affected property owners concerning the prevention of endangerment to property or public safety.
 - (k) The responsible party is subject to the enforcement actions and penalties detailed in S. 13, if the responsible party fails to comply with the terms of this permit.
- (5) PERMIT CONDITIONS. Permits issued under this subsection may include conditions established by [administering authority] in addition to the requirements needed to meet the performance standards in S. 07 or a financial guarantee as provided for in S. 11.
- (6) PERMIT DURATION. Permits issued under this section shall be valid from the date of issuance through the date the [administering authority] notifies the responsible party that all storm water management practices have passed the final inspection required under sub. (4)(d).

13. STORM WATER MANAGEMENT PLAN.

- (1) STORM WATER MANAGEMENT PLAN REQUIREMENTS. The storm water management plan required under S. 07 (2) shall contain at a minimum the following information:
- (a) Name
 - (b) Address
 - (c) telephone number for the following or their designees
 - (d) landowner
 - (e) developer
 - (f) project engineer for practice design and certification
 - (g) person(s) responsible for installation of storm water management practices
 - (h) person(s) responsible for maintenance of storm water management practices prior to the transfer, if any, of maintenance responsibility to

- another party.
- (i) A proper legal description of the property proposed to be developed
 - (j) Pre-development site conditions, including:
 - i. One or more scaled site plans shall be submitted that includes, at a minimum, the following:
 - a. Site location and legal property description
 - b. Predominant soil types and hydrologic soil groups
 - c. Existing cover type and condition
 - d. Topographic contours of the site
 - e. Topography and drainage network including enough of the contiguous properties to show runoff patterns onto, through, and from the site
 - f. Watercourses that may affect or be affected by runoff from the site
 - g. Flow path and direction for all storm water conveyance sections
 - h. Watershed boundaries used in hydrology determinations to show compliance with performance standards
 - i. Lakes, streams, wetlands, channels, ditches, and other watercourses on and immediately adjacent to the site
 - j. Limits of the 100 year floodplain
 - k. Location of wells and wellhead protection areas covering the project area and delineated pursuant to s. NR 811.16, Wis. Adm. Code.
 - l. Any other information requested by the Planning and Zoning Department
 - ii. Hydrology and pollutant loading computations as needed to show compliance with performance standards. All major assumptions used in developing input parameters shall be clearly stated. The geographic areas used in making the calculations shall be clearly cross-referenced to the required map(s).
 - (k) Post-development site conditions, including:
 - i. Explanation of the provisions to preserve and use natural topography and land cover features to minimize changes in peak flow runoff rates and volumes to surface waters and wetlands.
 - ii. Explanation of any restrictions on storm water management measures in the development area imposed by wellhead protection plans and ordinances.
 - iii. One or more site plans shall be submitted that includes, at a minimum, the following:
 - a. Post-construction pervious areas including vegetative cover type and condition
 - b. Impervious surfaces including all buildings, structures, and pavement
 - c. Post-construction topographic contours
 - d. Post-construction drainage network including enough of the contiguous properties to show runoff patterns onto, through, and from the site
 - e. Locations and dimensions of drainage easements

- f. Locations of maintenance easements specified in the maintenance agreement
- g. Flow path and direction for all storm water conveyance sections
- h. Location and type of all storm water management conveyance and treatment practices, including the on-site and off-site tributary drainage area
- i. Location and type of conveyance system that will carry runoff from the drainage and treatment practices to the nearest adequate outlet such as a curbed street, storm drain, or natural drainage way
- j. Watershed boundaries used in hydrology and pollutant loading calculations and any changes to lakes, streams, wetlands, channels, ditches, and other watercourses on and immediately adjacent to the site.
- k. Any other information requested by the Planning and Zoning Department
- iv. Hydrology and pollutant loading computations as needed to show compliance with performance standards. The computations shall be made for each discharge point in the development, and the geographic areas used in making the calculations shall be clearly cross-referenced to the required map(s).
- v. Results of investigations of soils and groundwater required for the placement and design of storm water management measures. Detailed drawings including cross-sections and profiles of all permanent storm water conveyance and treatment practices.
 - (l) A description and installation schedule for the storm water management practices needed to meet the performance standards in S. 07.
 - (m) A maintenance plan developed for the life of each storm water management practice including the required maintenance activities and maintenance activity schedule.
 - (n) Cost estimates for the construction, operation, and maintenance of each storm water management practice.
 - (o) Other information requested in writing by the [administering authority] to determine compliance of the proposed storm water management measures with the provisions of this ordinance.
 - (p) All site investigations, plans, designs, computations, and drawings shall be certified by a licensed professional engineer to be prepared in accordance with accepted engineering practice and requirements of this ordinance.
- (2) ALTERNATE REQUIREMENTS. The [administering authority] may prescribe alternative submittal requirements for applicants seeking an exemption to on-site storm water management performance standards under S. 07 (5).

14. MAINTENANCE AGREEMENT.

- (1) MAINTENANCE AGREEMENT REQUIRED. The maintenance agreement required under S. 08 for storm water management practices shall be an agreement between the [administering authority] and the responsible party to provide for maintenance of storm water practices beyond the duration period of this permit. The

maintenance agreement shall be filed with the County Register of Deeds as a property deed restriction so that it is binding upon all subsequent owners of the land served by the storm water management practices.

- (2) AGREEMENT PROVISIONS. The maintenance agreement shall contain the following information and provisions and be consistent with the maintenance plan required by S. 09 (1)(f):
- (a) Identification of the storm water facilities and designation of the drainage area served by the facilities.
 - (b) A schedule for regular maintenance of each aspect of the storm water management system consistent with the storm water management plan required under S. 08 (2).
 - (c) Identification of the responsible party(s), organization or city, county, town or village responsible for long term maintenance of the storm water management practices identified in the storm water management plan required under S. 08 (2).
 - (d) Requirement that the responsible party(s), organization, or city, county, town or village shall maintain storm water management practices in accordance with the schedule included in par. (b).
 - (e) Authorization for the [administering authority] to access the property to conduct inspections of storm water management practices as necessary to ascertain that the practices are being maintained and operated in accordance with the agreement.
 - (f) A requirement on the [administering authority] to maintain public records of the results of the site inspections, to inform the responsible party responsible for maintenance of the inspection results, and to specifically indicate any corrective actions required to bring the storm water management practice into proper working condition.
 - (g) Agreement that the party designated under par. (c), as responsible for long term maintenance of the storm water management practices, shall be notified by the [administering authority] of maintenance problems which require correction. The specified corrective actions shall be undertaken within a reasonable time frame as set by the [administering authority].
 - (h) Authorization of the [administering authority] to perform the corrected actions identified in the inspection report if the responsible party designated under par. (c) does not make the required corrections in the specified time period. The [administering authority] shall enter the amount due on the tax rolls and collect the money as a special charge against the property pursuant to subch. VII of ch. 66, Wis. Stats.

15. FINANCIAL GUARANTEE.

- (1) ESTABLISHMENT OF THE GUARANTEE. The [administering authority] may require the submittal of a financial guarantee, the form and type of which shall be acceptable to the [administering authority]. The financial guarantee shall be in an amount determined by the [administering authority] to be the estimated cost of construction and the estimated cost of maintenance of the storm water management practices during the period which the designated party in the maintenance agreement has maintenance responsibility. The financial guarantee

shall give the [administering authority] the authorization to use the funds to complete the storm water management practices if the responsible party defaults or does not properly implement the approved storm water management plan, upon written notice to the responsible party by the [administering authority] that the requirements of this ordinance have not been met.

- (2) CONDITIONS FOR RELEASE. Conditions for the release of the financial guarantee are as follows:
 - (a) The [administering authority] shall release the portion of the financial guarantee established under this section, less any costs incurred by the [administering authority] to complete installation of practices, upon submission of "as built plans" or "record" drawings by a licensed professional engineer. The [administering authority] may make provisions for a partial pro-rata release of the financial guarantee based on the completion of various development stages.
 - (b) The [administering authority] shall release the portion of the financial guarantee established under this section to assure maintenance of storm water practices, less any costs incurred by the [administering authority], at such time that the responsibility for practice maintenance is passed on to another entity via an approved maintenance agreement.

16. FEE SCHEDULE.

- (1) The fees referred to in other sections of this ordinance shall be established by the [administering authority] and may from time to time be modified by resolution. A schedule of the fees established by the [administering authority] shall be available for review in [location].

17. S. 13 ENFORCEMENT.

- (1) Any land disturbing construction activity or post-construction runoff initiated after the effective date of this ordinance by any person, firm, association, or corporation subject to the ordinance provisions shall be deemed a violation unless conducted in accordance with the requirements of this ordinance.
- (2) The [administering authority] shall notify the responsible party by certified mail of any non-complying land disturbing construction activity or post-construction runoff. The notice shall describe the nature of the violation, remedial actions needed, a schedule for remedial action, and additional enforcement action which may be taken.
- (3) Upon receipt of written notification from the [administering authority] under sub. (2), the responsible party shall correct work that does not comply with the storm water management plan or other provisions of this permit. The responsible party shall make corrections as necessary to meet the specifications and schedule set forth by the [administering authority] in the notice.
- (4) If the violations to a permit issued pursuant to this ordinance are likely to result in damage to properties, public facilities, or waters of the state, the [administering authority] may enter the land and take emergency actions necessary to prevent

such damage. The costs incurred by the [administering authority] plus interest and legal costs shall be billed to the responsible party.

- (5) The [administering authority] is authorized to post a stop work order on all land disturbing construction activity that is in violation of this ordinance, or to request the [municipal attorney, corporation counsel] to obtain a cease and desist order in any court with jurisdiction.
- (6) The [administering authority] may revoke a permit issued under this ordinance for non-compliance with ordinance provisions.
- (7) Any permit revocation, stop work order, or cease and desist order shall remain in effect unless retracted by the [administering authority] or by a court with jurisdiction.
- (8) The [administering authority] is authorized to refer any violation of this ordinance, or a stop work order or cease and desist order issued pursuant to this ordinance, to the [municipal attorney, corporation counsel] for the commencement of further legal proceedings in any court with jurisdiction.
- (9) Any person, firm, association, or corporation who does not comply with the provisions of this ordinance shall be subject to a forfeiture of not less than [number] dollars or more than [number] dollars per offense, together with the costs of prosecution. Each day that the violation exists shall constitute a separate offense.
- (10) Compliance with the provisions of this ordinance may also be enforced by injunction in any court with jurisdiction. It shall not be necessary to prosecute for forfeiture or a cease and desist order before resorting to injunctive proceedings.
- (11) When the [administering authority] determines that the holder of a permit issued pursuant to this ordinance has failed to follow practices set forth in the storm water management plan, or has failed to comply with schedules set forth in said storm water management plan, the [administering authority] or a party designated by the [administering authority] may enter upon the land and perform the work or other operations necessary to bring the condition of said lands into conformance with requirements of the approved storm water management plan. The [administering authority] shall keep a detailed accounting of the costs and expenses of performing this work. These costs and expenses shall be deducted from any financial security posted pursuant to S. 11 of this ordinance. Where such a security has not been established, or where such a security is insufficient to cover these costs, the costs and expenses shall be entered on the tax roll as a special charge against the property and collected with any other taxes levied thereon for the year in which the work is completed.

18. APPEALS.

- (1) BOARD OF ADJUSTMENT.
 - (a) The board of adjustment, created pursuant to section [number] of the

[name of municipality] ordinances pursuant to s. 59.694, Wis. Stats., shall hear and decide appeals where it is alleged that there is error in any order, decision or determination made by the [administering authority] in administering this ordinance. The board shall also use the rules, procedures, duties, and powers authorized by statute in hearing and deciding appeals. Upon appeal, the board may authorize variances from the provisions of this ordinance that are not contrary to the public interest, and where owing to special conditions a literal enforcement of the ordinance will result in unnecessary hardship.

- (b) Board of Adjustment shall follow rules established through the Jefferson County Zoning Ordinance
- (c) WHO MAY APPEAL: Appeals to the board of adjustment may be taken by any aggrieved person or by an officer, department, board or bureau of Jefferson County affect by the decision of the [administering authority]

19. SEVERABILITY

- (1) If any section, clause, provision of this ordinance is judged unconstitutional or invalid by a court of competent jurisdiction, the remainder of the ordinance shall remain in force and not be effected by such judgement.

20. EFFECTIVE DATE

- (1) This ordinance shall be in force and effect from and after its adoption and publication. The above foregoing ordinance was duly adopted by the County Board of Supervisors of Jefferson County on XX day of Month, Year.