35.01 Authority
(1) This ordinance is adopted by the common council under the authority granted by Section 62.234, Wisconsin Statutes. This ordinance supersedes all provisions of an ordinance previously enacted under Section 62.23, Wisconsin Statutes., that relate to stormwater management regulations. Except as otherwise specified in Section 62.234, Wisconsin Statutes, Section 62.23, Wisconsin Statutes., 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 common council hereby designates the city engineer to administer and enforce the provisions of this ordinance. Whenever city engineer is used in this ordinance it shall mean city engineer or his/her designee.
(4) The requirements of this ordinance do not pre-empt more stringent stormwater 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 Sections 281.16 and 283.33, Wisconsin Statutes.
   (b) Targeted non-agricultural performance standards promulgated in rules by the Wisconsin Department of Natural Resources under s. NR 151.004, Wisconsin Administrative Code.

35.02 Findings of Fact.
The common council finds 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:
(1) Degrade physical stream habitat by increasing stream bank erosion, increasing streambed scour, diminishing groundwater recharge, diminishing stream base flows and increasing stream temperature.
(2) 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.
(3) Alter wetland communities by changing wetland hydrology and by increasing pollutant loads.
(4) Reduce the quality of groundwater by increasing pollutant loading.
(5) Threaten public health, safety, property and general welfare by overtaxing storm sewers, drainage ways, and other minor drainage facilities.
(6) Threaten public health, safety, property and general welfare by increasing major flood peaks and volumes.
(7) Undermine floodplain management efforts by increasing the incidence and levels of flooding.
35.03 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 stormwater; 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; control increases in the scouring and transportation of particulate matter; and prevent conditions that endanger downstream property.

(2) Intent. It is the intent of the common council that this ordinance regulates post-construction stormwater discharges to waters of the state. This ordinance may be applied on a site-by-site basis. The common council recognizes, however, that the preferred method of achieving the stormwater performance standards set forth in this ordinance is through the preparation and implementation of comprehensive, systems-level stormwater management plans that cover hydrologic units, such as watersheds, on a municipal and regional scale. Such plans may prescribe regional stormwater 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, Wisconsin Statutes, for regional stormwater management measures and have been approved by the common council, it is the intent of this ordinance that the approved plan be used to identify post-construction management measures acceptable for the community.

35.04 APPLICABILITY AND JURISDICTION.

(1) Applicability.
(a) Where not otherwise limited by law, this ordinance applies after final stabilization to a site of land disturbing construction activity meeting any of the criteria in this paragraph, unless the site is otherwise exempt under paragraph (b).
(1) A post construction site that had 1 or more acres of land disturbing construction activity.
(b) A site that meets any of the criteria in this paragraph is exempt from the requirements of this ordinance.
(1) A post-construction site with less than 10% connected imperviousness based on complete development of the post-construction site, provided the cumulative area of all parking lots and rooftops is less than one acre.
(2) Nonpoint discharges from agricultural facilities and practices. (Note: NR 151.121 excludes not just nonpoint, but all agricultural discharges, as Section II of NR 151 covers agricultural facilities.)
(3) Underground utility construction but not including the construction of any above ground structures associated with utility construction.
(c) Notwithstanding the applicability requirements in paragraph (a), this ordinance applies to post-construction sites of any size that, in the opinion of the city engineer, is likely to result in runoff that exceeds the safe capacity of the existing drainage facilities or receiving body of water, that causes undue channel erosion, that increases water pollution by scouring or the transportation of particulate matter or that endangers property or public safety.

(2) Jurisdiction. This ordinance applies to post construction sites within the boundaries and jurisdiction of the City of Wisconsin Rapids.

(3) Exclusions. This ordinance is not applicable to activities conducted by a state agency, as defined under s. 227.01(1), Wisconsin Statutes, but also including the office of district attorney, which is subject to the state plan promulgated or a memorandum of understanding entered into under s. 281.33(2), Wisconsin Statutes.

35.05 DEFINITIONS.

(1) Administering authority means a governmental employee, or a regional planning commission empowered under Section 62.234, Wisconsin Statutes, that is designated by the common council to administer this ordinance.

(2) Agricultural facilities and practices has the meaning given in Section 281.16, Wisconsin Statutes.

(3) 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 SLAMM, P8, or equivalent methodology. The average annual rainfall is chosen from a department publication for the location closest to the municipality.
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.

Business day means a day the office of the city engineer is routinely and customarily open for business.

Cease and desist order means a court-issued order to halt land disturbing construction activity that is being conducted without the required permit.

Combined sewer system means a system for conveying both sanitary sewage and stormwater runoff.

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.

Design storm means a hypothetical discrete rainstorm characterized by a specific duration, temporal distribution, rainfall intensity, return frequency, and total depth of rainfall.

Development means residential, commercial, industrial or institutional land uses and associated roads.

Division of land means the creation from one parcel of five or more parcels or building sites of 1.5 or fewer acres each in area where such creation occurs at one time or through the successive partition within a 5 year period.

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.

Erosion means the process by which the land's surface is worn away by the action of wind, water, ice or gravity.

Exceptional resource waters means waters listed in Section NR 102.11, Wisconsin Administrative Code.

Extraterritorial means the unincorporated area within 3 miles of the corporate limits of a first, second, or third class city, or within 1.5 miles of a fourth class city or village.

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% of the cover, for the unpaved areas and areas not covered by permanent structures, or employment of equivalent permanent stabilization measures.

Financial guarantee means a performance bond, maintenance bond, surety bond, irrevocable letter of credit, or similar guarantees submitted to the city engineer by the responsible party to assure that requirements of the ordinance are carried out in compliance with the stormwater management plan.

Governing body means town board of supervisors, county board of supervisors, city council, village board of trustees or village council.

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.

In-fill area means an undeveloped area of land located within existing development.

Infiltration means the entry of precipitation or runoff into or through the soil.

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.

Karst feature means an area or surficial geologic feature subject to bedrock dissolution so that it is likely to provide a conduit to groundwater, and may include caves, enlarged fractures, mine features, exposed bedrock surfaces, sinkholes, springs, seeps, or swallowets.

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.

Maintenance agreement means a legal document that provides for long-term maintenance of stormwater management practices.

MEP or maximum extent practicable means a level of implementing best management practices in order to achieve a performance standard specified in this chapter which takes 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. MEP allows flexibility in the way to meet the performance standards and may vary based on the performance standard and site conditions.

New development means development resulting from the conversion of previously undeveloped land or agricultural land uses.

Off-site means located outside the property boundary described in the permit application.

On-site means located within the property boundary described in the permit application.
Ordinary high-water mark has the meaning given in Section NR 115.03(6), Wisconsin Administrative Code.

Outstanding resource waters means waters listed in Section NR 102.10, Wisconsin Administrative Code.

Percent fines mean the percentage of a given sample of soil, which passes through a # 200 sieve.

Performance standard means a narrative or measurable number specifying the minimum acceptable outcome for a facility or practice.

Permit means a written authorization made by the city engineer to the applicant to conduct land disturbing construction activity or to discharge post-construction runoff to waters of the state.

Permit administration fee means a sum of money paid to the city engineer by the permit applicant for the purpose of recouping the expenses incurred by the authority in administering the permit.

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.

Pollutant has the meaning given in Section 283.01(13), Wisconsin Statutes.

Pollution has the meaning given in Section 281.01(10), Wisconsin Statutes.

Post-construction site means a construction site following the completion of land disturbing construction activity and final site stabilization.

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.

Preventive action limit has the meaning given in Section NR 140.05(17), Wisconsin Administrative Code.

Redevelopment means areas where development is replacing older development.

Responsible party means any entity holding fee title to the property or other person contracted or obligated by other agreement to implement and maintain post-construction stormwater BMPs.

Runoff means stormwater or precipitation including rain, snow or ice melt or similar water that moves on the land surface via sheet or channelized flow.

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.

Site means the entire area included in the legal description of the land on which the land disturbing construction activity occurred.

Stop work order means an order issued by the city engineer which requires that all construction activity on the site be stopped.

Stormwater management plan means a comprehensive plan designed to reduce the discharge of pollutants from stormwater after the site has undergone final stabilization following completion of the construction activity.

Stormwater 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.

Technical standard means a document that specifies design, predicted performance and operation and maintenance specifications for a material, device or method.

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% continually for at least 50 feet. If the slope of the land is 12% 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.


Type II distribution means a rainfall type curve as established in the “United States Department of Agriculture, Soil Conservation Service, Technical Paper 149, published 1973”. The Type II curve is applicable to all of Wisconsin and represents the most intense storm pattern.

Waters of the state has the meaning given in Section 283.01(20), Wisconsin Statutes.

35.06 TECHNICAL STANDARDS.

The following methods shall be used in designing the water quality, peak flow shaving and infiltration components of stormwater practices needed to meet the water quality standards of this ordinance:
Technical standards identified, developed or disseminated by the Wisconsin Department of Natural Resources under subchapter V of chapter NR 151, Wisconsin Administrative Code.

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 city engineer.

In this ordinance, the following year and location has been selected as an average annual rainfall: Green Bay, 1969 (March 29 – November 25).

35.07 PERFORMANCE STANDARDS.

(1) Responsible Party. The landowner of the post-construction site or other person contracted or obligated by other agreement with the landowner to implement and maintain post-construction stormwater BMPs is the responsible party and shall comply with this ordinance.

(2) Plan. A written stormwater management plan in accordance with 35.09 shall be developed and implemented for each post-construction site.

(3) Requirements. The plan required under 35.07(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:

(1) BMPs shall be designed in accordance with Table 1, or to the maximum extent practicable as provided in 35.07(3). The design shall be based on an average annual rainfall, as compared to no runoff management controls.

<table>
<thead>
<tr>
<th>Development Type</th>
<th>TSS Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Development</td>
<td>80 percent</td>
</tr>
<tr>
<td>In-fill development</td>
<td>80 percent</td>
</tr>
<tr>
<td>Redevelopment</td>
<td>40 percent of load from parking areas and roads</td>
</tr>
</tbody>
</table>

(2) Maximum Extent Practicable. If the design cannot meet a total suspended solids reduction performance standard of Table 1, the stormwater 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. No person shall be required to exceed the applicable total suspended solids reduction performance standard to meet the requirements of maximum extent practicable.

(3) 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.

(1) Requirement. Except as provided in 35.07(3)(b)(2), BMPs, by design, shall be employed to maintain or reduce the 1, 2, 5, 10, 25, 50, 100-year, 24-hour post-construction peak runoff discharge rates to the 1, 2, 5, 10, 25, 50, 100-year, 24-hour pre-development peak runoff discharge rates respectively, or to the maximum extent practicable as determined by the city engineer. The runoff curve numbers in Table 2 shall be used to represent the actual pre-development conditions.

<table>
<thead>
<tr>
<th>Pre-development condition</th>
<th>Hydrologic Soil Group</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Woodland</td>
<td>30</td>
</tr>
<tr>
<td>Grassland</td>
<td>39</td>
</tr>
<tr>
<td>Cropland</td>
<td>55</td>
</tr>
</tbody>
</table>

(2) Other requirements. The following post-development peak discharge flow rate requirements apply for the specific year storm event stated only if 35.07(3)(b)(1) is less restrictive. Peak runoff discharge flow rate requirements associated with storm events not listed below shall still follow 35.07(3)(b)(1).
(a) Existing storm conveyance systems with restricted post-development peak discharge flow rates:

- **8th Street South (Ruby Avenue to the south corporate limits) storm sewer**
  - 1 cubic feet per second per acre, cfs/ac, for a 25 year, 24 hour storm event

- **Rapids East Commerce Center Storm System**
  - 0.02 cfs/ac for a 2 year, 24 hour storm event
  - 0.08 cfs/ac for a 5 year, 24 hour storm event
  - 0.20 cfs/ac for a 25 year, 24 hour storm event [2005 MSA Professional Services RECC Stormwater Management Plan]

- **Woodlands Business Park – Saratoga Street Storm System**
  - 1.5 cfs/ac for 2 hour duration, 25 year recurrence [1996 HNTB Saratoga St Drainage Basin Study]

- **One Mile Creek**
  - 0.37 cfs/ac for 100 year flood [2003 MSA Professional Services Walgreens Flood Study]

- **Quinell’s Creek**
  - Peak discharge shall be in accordance with 1997 STH 54 State Municipal Agreement 1526-03-78,80

- **STH 54 (Kingston Road to 26th Street North) storm sewer**
  - Peak discharge shall be in accordance with 1997 STH 54 State Municipal Agreement 1526-03-78,80

(3) Additional requirements may be enforced in the former areas, as well as Two Mile Creek, Romanski Ditch, and West Side Industrial Park storm system to reduce flooding and erosion potential as determined necessary by the city engineer.

(4) 35.07(3)(b)(1) and (2) 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) A redevelopment post-construction site.

(c) An in-fill development area less than 5 acres.

(c) Infiltration.

(1) 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 1 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.

(2) Pre-development. Pre-development condition shall be the same as specified in Table 2 of the Peak Discharge section of this ordinance.

(3) 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 of Wisconsin Department of Natural Resources groundwater standards in NR 151.124(6):

(1) Areas associated with a tier 1 industrial facility identified in Section NR 216.21(2)(a), including storage, loading and parking. Rooftops may be infiltrated with the concurrence of the regulatory authority.

(2) Storage and loading areas of a tier 2 industrial facility identified in Section NR 215.21(2)(b).

(3) Fueling and vehicle maintenance areas. 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:

(1) Parking areas and access roads less than 5,000 square feet for commercial development.

(2) Parking areas and access roads less than 5,000 square feet for industrial development not subject to the prohibitions under paragraph a. of this ordinance.

(3) In-fill development areas less than 5 acres

(4) Roads on commercial, industrial and institutional land uses, and arterial residential roads.

(4) Location of Practices.

(a) Prohibitions. Infiltration practices may not be located in the following areas:

(1) Areas within 1000 feet upgradient or within 100 feet downgradient of direct conduits to groundwater.

(2) Areas within 400 feet of a community water system well as specified in Section NR 811.16(4) or within the separation distances listed in Section NR 812.08 for any private well or non-community well for runoff infiltrated from commercial, including multi-family residential, industrial and institutional land uses or regional devices for one- and two-family residential development.

(3) Areas where contaminants of concern, as defined in Section NR 720.03(2), are present in the soil through which infiltration will occur.

(b) Separation distances.

(1) 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:

<table>
<thead>
<tr>
<th>Source Area</th>
<th>Separation Distance</th>
<th>Soil Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial, Commercial, Institutional Parking Lots and Roads</td>
<td>5 feet or more</td>
<td>Filtering Layer</td>
</tr>
<tr>
<td>Residential Arterial Roads</td>
<td>5 feet or more</td>
<td>Filtering Layer</td>
</tr>
<tr>
<td>roofs draining to subsurface infiltration practices</td>
<td>1 foot or more</td>
<td>Native or Engineered Soil with Particles Finer than Coarse Sand</td>
</tr>
<tr>
<td>Roofs draining to surface infiltration practices</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>All other impervious source areas</td>
<td>3 feet or more</td>
<td>Filtering Layer</td>
</tr>
</tbody>
</table>

(2) Notwithstanding 35.07(3)(c)(4)(b), applicable requirements for injection wells classified under Chapter NR 815 shall be followed.
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:

1. 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.

2. 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.

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.

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 Chapter 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 35.07(3)(c)(6)(a), the discharge from BMPs shall remain below the enforcement standard at the point of standards application.

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 35.07(3)(c)(6). Pretreatment options may include, but are not limited to, oil and grease separation, sedimentation, biofiltration, filtration, swales or filter strips.

Maximum Extent Practicable. Where the conditions of 35.07(3)(c)(3) and (4) limit or restrict the use of infiltration practices, the performance standard of Section NR 151.124 shall be met to the maximum extent practicable.

Protective Areas.

1. 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 35.07(3)(d)(1)(e) and (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 35.07(3)(d)(1)(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 Section NR 103.03.

(h) Wetland boundary delineation shall be made in accordance with current Wisconsin Department of Natural Resources procedures. 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 35.07(3)(d)(1)(a) to (i), the greatest protective area width shall apply where rivers, streams, lakes and wetlands are contiguous.

(2) Applicability. This section applies to post-construction sites located within a protective area, except those areas exempted pursuant to 35.07(3)(d)(4).

(3) 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 stormwater 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) Best management practice 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.

(4) Exemptions. This section does not apply to any of the following:

(a) In-fill development areas less than 5 acres.

(b) Structures that cross or access surface water such as boat landings, bridges, and culverts.

(c) Structures constructed in accordance with Section 59.692(1v), Wisconsin Statutes.

(d) 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 Vehicle 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.

(f) Swale Treatment for Transportation Facilities.

(1) Requirement. Except as provided in 35.07(3)(f)(2), transportation facilities that use swales for runoff conveyance and pollutant removal are exempt from the requirements of local ordinance requirements for peak flow control, total suspended solids control, and infiltration, if the swales are designed to do all of the following or to the maximum extent practicable:

(a) Swales shall be vegetated. However, where appropriate, non-vegetative measures may be employed to prevent erosion or provide for runoff treatment, such as rock riprap stabilization or check dams.

(b) Swales shall comply with the Wisconsin Department of Natural Resources technical standard 1005 “Vegetated Infiltration Swales”, dated May 2007, or a superseding document.

(2) Other requirements.

(a) Notwithstanding 35.07(3)(f)(1), the city engineer may, consistent with water quality standards, require that other requirements, in addition to swale treatment, be met on a transportation facility with an average daily traffic rate greater than 2,500 and where the initial surface water of the state that the runoff directly enters is any of the following:

(1) An outstanding resource water.
(2) An exceptional resource water.
(3) Waters listed in section 303(d) of the Federal Clean Water Act that are identified as impaired in whole or in part, due to non-point source impacts.
(4) Water where targeted performance standards are developed pursuant to Section NR 151.004.

(b) The transportation facility authority shall contact the city engineer to determine if additional BMPs beyond a water quality swale are needed under this subsection.

(4) General Considerations for On-site and Off-site Stormwater Management Measures. The following considerations shall be observed in managing runoff:
(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 stormwater facilities shall be provided to prevent exceeding the safe capacity of downstream drainage facilities and prevent endangerment of downstream property or public safety.

(5) Location and Regional Treatment Option.
(a) The BMPs may be located on-site or off-site as part of a regional stormwater device, practice or system.
(b) Post-construction runoff within a non-navigable surface water that flows into a BMP, such as a wet detention pond, is not required to meet the performance standards of this ordinance. Post-construction BMPs may be located in non-navigable surface waters.
(c) Except as allowed under 35.07(5)(d), post-construction runoff from new development shall meet the post-construction performance standards prior to entering a navigable surface water.
(d) Post-construction runoff from any development within a navigable surface water that flows into a BMP is not required to meet the performance standards of this ordinance if:
(1) The BMP was constructed prior to the effective date of this ordinance and the BMP either received a permit issued under Chapter 30, Wisconsin Statutes, or the BMP did not require a Chapter 30, Wisconsin Statutes, permit; and
(2) The BMP is designed to provide runoff treatment from future upland development.
(e) Runoff from existing development, redevelopment and in-fill areas shall meet the post-construction performance standards in accordance with this paragraph.
(1) To the maximum extent practicable, BMPs shall be located to treat runoff prior to discharge to navigable surface waters.
(2) Post-construction BMPs for such runoff may be located in a navigable surface water if allowable under all other applicable federal, state and local regulations such as Chapter NR 103, Wisconsin Administrative Code, and Chapter 30, Wisconsin Statutes.
(f) The discharge of runoff from a BMP, such as a wet detention pond, or after a series of such BMPs is subject to this chapter.
(g) The city engineer may approve off-site management measures provided that all of the following conditions are met:
(1) The city engineer determines that the post-construction runoff is covered by a stormwater management system plan that is approved by the City of Wisconsin Rapids and that contains management requirements consistent with the purpose and intent of this ordinance.
(2) 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 stormwater 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.
(h) Where a regional treatment option exists such that the city engineer exempts the applicant from all or part of the minimum on-site stormwater management requirements, the applicant shall be required to pay a fee in an amount determined in negotiation with the city engineer. In determining the fee for post-construction runoff, the city engineer shall consider an equitable distribution of the cost for land, engineering design, construction, and maintenance of the regional treatment option.
Alternate Requirements. The city engineer may establish stormwater management requirements more stringent than those set forth in this section if the city engineer determines that an added level of protection is needed to protect sensitive resources.

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 maintain the existing level of control for TSS, infiltration and peak flow reduction, or meet the redevelopment standards of Sections NR 151.122 to 151.125, whichever is more stringent.

35.08 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 city engineer 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 city engineer a permit application made on a form provided by the city engineer for that purpose.
   (a) Unless otherwise excepted by this ordinance, a permit application must be accompanied by a stormwater management plan, a maintenance agreement and a non-refundable permit administration fee.
   (b) The stormwater management plan shall be prepared to meet the requirements of 35.07 and 35.09, the maintenance agreement shall be prepared to meet the requirements of 35.10, the financial guarantee shall meet the requirements of 35.11, and fees shall be those established by the common council as set forth in 35.12.

(3) Review and Approval of Permit Application. The city engineer shall review any permit application that is submitted with a stormwater management plan, maintenance agreement, and the required fee. The following approval procedure shall be used:
   (a) Within 30 business days of the receipt of a complete permit application, including all items as required by 35.08(2), the city engineer shall inform the applicant whether the application, plan and maintenance agreement are approved or disapproved based on the requirements of this ordinance.
   (b) If the stormwater permit application, plan and maintenance agreement are approved, or if an agreed upon payment of fees in lieu of stormwater management practices is made, the city engineer shall issue the permit.
   (c) If the stormwater permit application, plan or maintenance agreement is disapproved, the city engineer shall detail in writing the reasons for disapproval.
   (d) The city engineer may request additional information from the applicant. If additional information is submitted, the city engineer shall have 30 business days from the date the additional information is received to inform the applicant that the plan and maintenance agreement are either approved or disapproved.
   (e) Failure by the city engineer to inform the permit applicant of a decision within 30 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 city engineer may suspend or revoke a permit for violation of a permit condition, following written notification of the responsible party. An action by the city engineer to suspend or revoke this permit may be appealed in accordance with 35.14.
   (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 stormwater management measures in accordance with the approved stormwater management plan and this permit.
   (c) The responsible party shall notify the city engineer at least 5 business days before commencing any work in conjunction with the stormwater management plan, and within 5 business days upon completion of the stormwater management practices. If required as a special condition under 35.08(5), the responsible party shall make additional notification according to a schedule set forth by the city engineer so that practice installations can be inspected during construction.
   (d) Practice installations required as part of this ordinance shall be certified "as built" by a licensed professional engineer. Completed stormwater management practices must pass a final inspection by the city engineer to determine if they are in accordance with the approved stormwater management plan and ordinance. The city engineer 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.
The responsible party shall notify the city engineer of any significant modifications it intends to make to an approved stormwater management plan. The city engineer may require that the proposed modifications be submitted to it for approval prior to incorporation into the stormwater management plan and execution by the responsible party.

The responsible party shall maintain all stormwater management practices in accordance with the stormwater management plan until the practices either become the responsibility of the common council, or are transferred to subsequent private owners as specified in the approved maintenance agreement.

The responsible party authorizes the city engineer to perform any work or operations necessary to bring stormwater management measures into conformance with the approved stormwater management plan, and consents to a special assessment or charge against the property as authorized under Subchapter VII of Chapter 66, Wisconsin Statutes., or to charging such costs against the financial guarantee posted under 35.11.

If so directed by the city engineer, 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 stormwater management plan.

The responsible party shall permit property access to the city engineer or its designee for the purpose of inspecting the property for compliance with the approved stormwater management plan and this permit.

Where site development or redevelopment involves changes in direction, increases in peak rate and/or total volume of runoff from a site, the city engineer may require the responsible party to make appropriate legal arrangements with affected property owners concerning the prevention of endangerment to property or public safety.

The responsible party is subject to the enforcement actions and penalties detailed in 35.13, if the responsible party fails to comply with the terms of this permit.

Permit Conditions. Permits issued under this subsection may include conditions established by the city engineer in addition to the requirements needed to meet the performance standards in 35.07 or a financial guarantee as provided for in 35.11.

Permit Duration. Permits issued under this section shall be valid from the date of issuance through the date the city engineer notifies the responsible party that all stormwater management practices have passed the final inspection required under 35.08(4)(d).

35.09 STORMWATER MANAGEMENT PLAN.

Plan Requirements. The stormwater management plan required under 35.08(2) shall contain at a minimum the following information:

(a) Name, address, and telephone number for the following or their designees: landowner; developer; project engineer for practice design and certification; person(s) responsible for installation of stormwater management practices; and person(s) responsible for maintenance of stormwater management practices prior to the transfer, if any, of maintenance responsibility to another party.

(b) A proper legal description of the property proposed to be developed, referenced to the U.S. Public Land Survey system or to block and lot numbers within a recorded land subdivision plat.

(c) Pre-development site conditions, including:

(1) One or more site maps at a scale of not less than 1 inch equals 100 feet. The site maps shall show the following: site location and legal property description; predominant soil types and hydrologic soil groups; existing cover type and condition; topographic contours of the site at a scale not to exceed 5 feet; topography and drainage network including enough of the contiguous properties to show runoff patterns onto, through, and from the site; watercourses that may affect or be affected by runoff from the site; flow path and direction for all stormwater conveyance sections; watershed boundaries used in hydrology determinations to show compliance with performance standards; lakes, streams, wetlands, channels, ditches, and other watercourses on and immediately adjacent to the site; limits of the 100 year floodplain; location of wells and wellhead protection areas covering the project area and delineated pursuant to Section NR 811.16, Wisconsin Administrative Code.

(2) 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).

(d) Post-development site conditions, including:
(1) 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.

(2) Explanation of any restrictions on stormwater management measures in the development area imposed by wellhead protection plans and ordinances.

(3) One or more site maps at a scale of not less than 1 inch equals 100 feet showing the following: post-construction pervious areas including vegetative cover type and condition; impervious surfaces including all buildings, structures, and pavement; post-construction topographic contours of the site at a scale not to exceed 5 feet; post-construction drainage network including enough of the contiguous properties to show runoff patterns onto, through, and from the site; locations and dimensions of drainage easements; locations of maintenance easements specified in the maintenance agreement; flow path and direction for all stormwater conveyance sections; location and type of all stormwater management conveyance and treatment practices, including the on-site and off-site tributary drainage area; 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; 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.

(4) 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).

(5) Results of investigations of soils and groundwater required for the placement and design of stormwater management measures. Detailed drawings including cross-sections and profiles of all permanent stormwater conveyance and treatment practices.

(e) A description and installation schedule for the stormwater management practices needed to meet the performance standards in 35.07.

(f) A maintenance plan developed for the life of each stormwater management practice including the required maintenance activities and maintenance activity schedule.

(g) Cost estimates for the construction, operation, and maintenance of each stormwater management practice.

(h) Other information requested in writing by the city engineer to determine compliance of the proposed stormwater management measures with the provisions of this ordinance.

(i) 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 city engineer may prescribe alternative submittal requirements for applicants seeking an exemption to on-site stormwater management performance standards under 35.07(5).

35.10 MAINTENANCE AGREEMENT.

(1) Maintenance Agreement Required. The maintenance agreement required under 35.07(2) for stormwater management practices shall be an agreement between the city engineer on behalf of the City and the responsible party to provide for maintenance of stormwater practices beyond the duration period of this permit. The maintenance agreement shall be filed with the Wood County Register of Deeds as a property deed restriction so that it is binding upon all subsequent owners of the land served by the stormwater management practices.

(2) Agreement Provisions. The maintenance agreement shall contain the following information and provisions and be consistent with the maintenance plan required by 35.09(1)(f):

(a) Identification of the stormwater facilities and designation of the drainage area served by the facilities.

(b) A schedule for regular maintenance of each aspect of the stormwater management system consistent with the stormwater management plan required under 35.07(2).

(c) Identification of the responsible party(s), organization or city, county, town or village responsible for long term maintenance of the stormwater management practices identified in the stormwater management plan required under 35.07(2).

(d) Requirement that the responsible party(s), organization, or city, county, town or village shall maintain stormwater management practices in accordance with the schedule included in 35.10(2)(b).

(e) Authorization for the city engineer to access the property to conduct inspections of stormwater management practices as necessary to ascertain that the practices are being maintained and operated in accordance with the agreement.
A requirement of the city engineer 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 stormwater management practice into proper working condition.

Agreement that the party designated under 35.10(2)(c), as responsible for long term maintenance of the stormwater management practices, shall be notified by the city engineer of maintenance problems which require correction. The specified corrective actions shall be undertaken within a reasonable time frame as set by the city engineer.

Authorization of the city engineer to perform the corrected actions identified in the inspection report if the responsible party designated under 35.10(2)(c) does not make the required corrections in the specified time period. The city engineer shall enter the amount due on the tax rolls and collect the money as a special charge against the property pursuant to Subchapter VII of Chapter 66, Wisconsin Statutes.

35.11 FINANCIAL GUARANTEE.

(1) Establishment of the Guarantee. The city engineer may require the submittal of a financial guarantee, the form and type of which shall be acceptable to the city engineer. The financial guarantee shall be in an amount determined by the city engineer to be the estimated cost of construction and the estimated cost of maintenance of the stormwater management practices during the period which the designated party in the maintenance agreement has maintenance responsibility. The financial guarantee shall give the city engineer the authorization to use the funds to complete the stormwater management practices if the responsible party defaults or does not properly implement the approved stormwater management plan, upon written notice to the responsible party by the city engineer 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 city engineer shall release the portion of the financial guarantee established under this section, less any costs incurred by the city engineer to complete installation of practices, upon submission of "as built plans" by a licensed professional engineer. The city engineer may make provisions for a partial pro-rata release of the financial guarantee based on the completion of various development stages.

(b) The city engineer shall release the portion of the financial guarantee established under this section to assure maintenance of stormwater practices, less any costs incurred by the city engineer, at such time that the responsibility for practice maintenance is passed on to another entity via an approved maintenance agreement.

35.12 FEE SCHEDULE.

The fees referred to in other sections of this ordinance shall be established by the common council and may from time to time be modified by resolution. A schedule of the fees shall be available for review in the city engineer's office.

35.13 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 city engineer 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 city engineer under 35.13(2), the responsible party shall correct work that does not comply with the stormwater 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 city engineer 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 city engineer may enter the land and take emergency actions necessary to prevent such damage. The costs incurred by the city engineer plus interest and legal costs shall be billed to the responsible party.

(5) The city engineer 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 city attorney to obtain a cease and desist order in any court with jurisdiction.

(6) The city engineer may revoke a permit issued under this ordinance for non-compliance with ordinance provisions.
Any permit revocation, stop work order, or cease and desist order shall remain in effect unless retracted by the city engineer or by a court with jurisdiction.

The city engineer is authorized to refer any violation of this ordinance, or of a stop work order or cease and desist order issued pursuant to this ordinance, to the city attorney for the commencement of further legal proceedings in any court with jurisdiction.

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 $200 dollars or more than $1000 dollars per offense, together with the costs of prosecution. Each day that the violation exists shall constitute a separate offense.

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.

When the city engineer determines that the holder of a permit issued pursuant to this ordinance has failed to follow practices set forth in the stormwater management plan, or has failed to comply with schedules set forth in said stormwater management plan, the city engineer 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 plan. The city engineer 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 35.11 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 assessment against the property and collected with any other taxes levied thereon for the year in which the work is completed.

35.14 APPEALS.

(1) Zoning Board of Appeals. The Zoning Board of Appeals, created pursuant to section 11 of the City of Wisconsin Rapids ordinances pursuant to Section 62.23(7)(e), Wisconsin Statutes, shall hear and decide appeals where it is alleged that there is error in any order, decision or determination made by the city engineer 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.

(2) Who May Appeal. Appeals to the Zoning Board of Appeals may be taken by any aggrieved person or by an officer, department, board, or bureau of the City of Wisconsin Rapids affected by any decision of the city engineer. Appeals must be filed with the city engineer and the zoning board of appeals within 30 days of the decision.

35.15 SEVERABILITY.

If any section, clause, provision or portion 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 affected by such judgment.

35.16 EFFECTIVE DATE.

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 common council of the City of Wisconsin Rapids on the 18th day of February, 2014.