# WILTON, NEW HAMPSHIRE LAND USE LAWS



# STORMWATER MANAGEMENT REGULATIONS SECTION H

**ADOPTED NOVEMBER 20, 1991** 

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#### 1.0 PURPOSE

Activities that disturb or alter land, including, without limitation, demolition, clearing, excavation, filling and construction, can change the nature, path, volume, percolation and flow of runoff from the land, resulting in erosion, pollution and other damage to sensitive areas. These regulations are intended to protect local property, natural resources and infrastructure from the effects of unmanaged changes in runoff resulting from such activity and identify the Stormwater Management Goals that must be achieved to do so. These regulations more specifically require, among other things, (a) construction and related activities to use best management practices to limit their impact, (b) adoption and implementation of an approved Stormwater Management Plan before certain activity begins and throughout the construction process, (c) post-construction maintenance and ongoing inspections of the Stormwater Management Systems that manage runoff on a property and (d) updates to Stormwater Management Systems as necessary for them to continue to meet the Stormwater Management Goals.

#### 2.0 AUTHORITY

These regulations are adopted pursuant to NH RSA 147:1, Local Regulations; 674:16, Grant of Power; RSA 674:17, Purposes of Zoning Ordinance; RSA 674:36, Subdivision Regulations; and RSA 674:44, Site Plan Review Regulations.

#### 3.0 DEFINITIONS

For the purposes of these regulations, the following terms have the meanings set forth below, whether or not they are capitalized herein. To the extent they are not defined below, terms used herein have the meanings set forth in the Zoning Ordinance. Unless otherwise noted, references to Sections in these regulations are to the sections of these regulations.

- 3.0.1 <u>Best Management Practices (BMPs)</u>. Recommendations for proven measures or approaches to Stormwater Management or the conduct of Construction Activities or other land use activities, the application of which will accomplish the Stormwater Management Goals and which have been adopted or approved by an entity or body having jurisdiction over, or expertise in, the subject, as they may from time to time be amended or modified, including, without limitation, Forestry Control BMPs, Homeowner's BMPs and any applicable construction, agricultural or other BMPs issued from time to time, as well as other guidance published by NHDES.
- 3.0.2 <u>Bioretention System.</u> A system (sometimes referred to as a rain garden) using conditioned plantings, soil beds, gravel beds and/or vegetation in shallow depressions to collect and filter moderate amounts of stormwater runoff to maintain or improve its quality.
- 3.0.3 <u>Building Inspector</u>. The Wilton Building Inspector.
- 3.0.4 <u>Catch Basin</u>. An engineered drainage structure typically designed to collect stormwater runoff from impervious surfaces such as driveways, roads and parking areas, and convey it to local waterways through a Drainage System.
- 3.0.5 <u>Construction Activities</u>. The demolition, construction or reconstruction of structures, roads, trails, driveways, parking areas, bridges, Drainage Systems, etc., on sites, public or private, located in Wilton, and all activity preparatory or incidental to such construction, including, without limitation, clearing, excavation, grading, filling, soil compaction, stockpiling topsoil, and any other activity that disturbs or alters the terrain.
- 3.0.6 <u>Construction Phase</u>. The period during which Construction Activity takes place.

- 3.0.7 <u>Contaminants.</u> Organic or inorganic (1) particulate material, including, without limitation, soil, sand, minerals, solid waste, petroleum products, biological material and chemical waste, or (2) gas, in each case, dissolved or suspended in Stormwater Runoff, whether or not the material itself could have a harmful effect on persons, property, its use, or the environment.
- 3.0.8 <u>Covered Construction Activity</u>. Construction Activity described in Section 5.1 and not exempt under Section 5.2.
- 3.0.9 <u>Critical Area.</u> An area (1) within fifty (50) feet of any wetland; (2) exceeding two thousand (2,000) contiguous square feet in highly erodible soils; (3) within, or within applicable buffers or setbacks prescribed by, the Watershed or Aquifer Protection Districts of the Town of Wilton or its MS4 Area, or (4) containing a slope greater than 10% in any horizontal segment of 25 feet.
- 3.0.10 <u>Culvert</u>. A drainage structure designed to convey surface water or Stormwater Runoff beneath a driveway, road, embankment or other similar structure.
- 3.0.11 <u>Detention</u>. Temporary storage of Stormwater Runoff, in a structure with a defined outlet or otherwise, before its Infiltration at a controlled rate, primarily to reduce the intensity of peak flows during storm events.
- 3.0.12 <u>Disturb (including disturbed)</u>. Action that alters the terrain, existing vegetation and/or the soil on a site, including, without limitation, Construction Activities.
- 3.0.13 <u>Disturbed Area</u>. The total area of a site that has been, or will be, disturbed by Construction Activity.
- 3.0.14 <u>Drainage System.</u> A public or private network of structures, including, without limitation, culverts, swales, ditches, channels and/or underground pipes (or a single such structure) designed to transport Stormwater Runoff either onsite or offsite to control its quantity, quality, timing and/or distribution.
- 3.0.15 <u>Erosion</u>. The removal of soil, sand or rock fragments by action of water, wind, ice, gravity or other natural processes.
- 3.0.16 <u>Filtration</u>. The process of removing Contaminants from Stormwater Runoff by passing it through a filtering medium such as sand, organic material, fabric or soil, or by sedimentation or by chemical means.
- 3.0.17 <u>Forestry Control BMPs.</u> Best Management Practices for Erosion Control on Timber Harvesting Operations, issued by The New Hampshire Division of Forests and Lands and The UNH Cooperative Extension, 2016, as it may from time to time be amended or modified.
- 3.0.18 <u>Groundwater</u>. Water located in zones beneath the land surface, including, without limitation, aquifers and seepage.
- 3.0.19 <u>Homeowner's BMPs.</u> The Best Management Practices contained in the *New Hampshire Homeowners' Guide to Stormwater Management*, issued by The Watershed Management Bureau of the New Hampshire Department of Environmental Services, November 2019, as it may from time to time be amended or modified.
- 3.0.20 <u>Illicit Discharge Detection and Elimination (IDDE)</u>. The Illicit Discharge Detection and Elimination ordinance adopted by the Town of Wilton, as it may from time to time be amended or modified.
- 3.0.21 <u>Impervious Surface</u>. Any manmade surface that prevents or significantly impedes Infiltration, including, without limitation, structures, rooftops, artificial turf, paved roads, driveways,

parking areas and trails (or those constructed with compacted soil or gravel) and other outdoor areas to the extent constructed with non-porous materials. 3.0.22 Infiltration. The process by which Stormwater Runoff percolates into the ground. 3.0.23 Low Impact Development (LID). Strategies that maintain or replicate preexisting Stormwater Runoff and Infiltration characteristics, including, without limitation, site planning, use of pervious materials, Bioretention Systems, green roofs, detention areas, non-engineered Drainage Systems and other functionally similar BMPs located near the source of Stormwater Runoff. 3.0.24 Municipal Separate Storm Sewer System (MS4). The Municipal Separate Storm Sewer System of the Town of Wilton. MS4 Area. The urbanized area of the Town of Wilton covered by the MS4 Permit issued to the 3.0.25 Town by the U.S. Environmental Protection Agency (EPA), as such area may from time to time be modified. 3.0.26 Maintenance Agreement. The agreement, in recordable form and approved by the Planning Board, addressing, among other things, continuous maintenance of the Stormwater Management System(s) on a property or properties and other agreements and obligations with respect to the applicable Stormwater Management Plan, as further described in Section 10.0. 3.0.27 Outlet Location. The point at which water discharges from a pipe weir, swale, ditch or drain. 3.0.28 Peak Flow. The maximum flow of water leaving a disturbed area due to a storm event, expressed in CFS (cubic feet per second), based on the 100-year frequency 24- hour storm discharge rate (as that standard may be increased from time to time by applicable law or regulation). 3.0.29 Planning Board. The Wilton Planning Board. 3.0.30 Post-Construction Phase. The period following completion of Construction Activities. 3.0.31 Precipitation. Any product of the condensation of atmospheric water vapor that falls under gravity from clouds, including, without limitation, drizzle, rain, sleet, snow, ice pellets, graupel and hail. 3.0.32 Recharge. Replenishment of groundwater and surface waters via Infiltration, maintaining water flow and preserving water table levels. 3.0.33 Redevelopment. Any Construction Activity proposed for land on which Impervious Surfaces constitute, or will, after such Construction Activity, constitute, more than 60% of its area. 3.0.34 Restoration (including restore). Returning an area to a close approximation of its ecological, hydrological and topographical condition prior to disturbance. Responsible Party(ies). The owner(s) and/or operator(s) of the property or the facility where 3.0.35 Construction Activities will take, or have taken, place, and/or any other individual(s) or entity identified in the Maintenance Agreement. 3.0.36 Retention. Temporary storage of Stormwater Runoff in a structure without a defined outlet and whose only outlet is Infiltration. Sedimentation. The process by which solid Contaminants are removed from Stormwater 3.0.37 Runoff by settling in a Bioretention System or other detention structure. Select Board. The Wilton Select Board. 3.0.38

- 3.0.39 <u>Stabilized</u>. The state of a site when soils there will not experience accelerated or unnatural erosion. In addition to any other requirements established by the Planning Board or the Stormwater Manager, areas without Impervious Surface are presumed to be stabilized when a minimum of 85% vegetative cover has been established, a minimum of 3" of non-erosive material such as stone or a certified compost blanket has been installed, or erosion control blankets have been installed. Areas with Impervious Surface are presumed to be stabilized when base course gravels have been installed.
- 3.0.40 <u>Stormwater Application</u>. The application required by Section 5.3, including all of the information set forth in Section 6.0.
- 3.0.41 <u>Stormwater Management</u>. The use of, among other things, site design, construction, structural and operational BMPs, and other strategies designed to achieve Stormwater Management Goals in connection with Construction Activities.
- 3.0.42 <u>Stormwater Management Goals.</u> During each phase of Construction Activity (including the Post-Construction Phase): (1) minimize on- and offsite erosion; (2) reduce Peak Flow; (3) maintain predevelopment, or pre-existing, Stormwater Runoff volume and patterns; (4) prevent contamination of Stormwater Runoff and degradation of its quality; (5) maximize Infiltration, (6) maximize groundwater recharge; (7) to the extent practical, capture and reuse stormwater runoff; (8) preserve existing vegetation and (9) protect any Critical Areas that may be affected.
- 3.0.43 <u>Stormwater Management Plan (SMP)</u>. The document approved by the Planning Board as part of a Stormwater Application and incorporated by reference in the Maintenance Agreement, setting out the means by which Stormwater Management will be implemented, the Stormwater Management Goals achieved, and containing the information and undertakings set forth in Section 7.0.
- 3.0.44 <u>Stormwater Management System (SMS)</u>. The system of mechanisms, structures, tools and/or controls, including, without limitation and where appropriate, Drainage Systems, Bioretention Systems, Catch Basins, Low Impact Development strategies, Stormwater Treatment mechanisms, Filtration mechanisms, and their respective components, that implements either (1) Stormwater Management, including Best Management Practices in connection with any Construction Activity, or (2) a required Stormwater Management Plan.
- 3.0.45 <u>Stormwater Manager</u>. The individual or individuals designated from time to time by the Select Board or its designee to administer, enforce and monitor compliance with these regulations and the town's MS4 Permit.
- 3.0.46 <u>Stormwater Runoff</u>. The water from precipitation, drainage or other surface runoff, including, without limitation, snowmelt, that is not absorbed, evaporated, or otherwise stored within the contributing area.
- 3.0.47 <u>Stormwater Treatment</u>. The process of removing Contaminants from Stormwater Runoff to improve its quality, by Sedimentation, Filtration, Subsurface Gravel Wetlands, or otherwise.
- 3.0.48 <u>Surface Gravel Wetland</u>. A Low Impact Development system to treat Nonpoint Source Pollution combining Sedimentation structures with chemical Filtration, such as microbial nitrogen removal in an anaerobic subsurface zone.
- 3.0.49 <u>Surface Water</u>. Water bodies or wet areas located on top of the Earth's surface, including, without limitation, streams, rivers, ponds, lakes, wetlands and vernal pools (seasonal, intermittent or otherwise).
- 3.0.50 <u>Swale</u>. A shallow, low-gradient, vegetated (grass, plants and/or shrubs) drainage channel designed to convey and treat shallow, redirected Stormwater Runoff and facilitate Infiltration.

- 3.0.51 <u>Total Suspended Solids (TSS)</u>. The dry weight of suspended particles greater than or equal to 2 microns in size, usually expressed as grams/liter.
- 3.0.52 <u>Watershed</u>. The area of land from which surface water and/or groundwater drains to a waterbody.
- 3.0.53 Zoning Ordinance. Section A, Zoning Ordinance, of the Wilton Land Use Laws and Regulations, as it may from time to time be amended or modified.

# 4.0 GENERAL REQUIREMENTS FOR ALL CONSTRUCTION ACTIVITIES

In connection with any Construction Activities for any purpose (residential, commercial, agricultural, industrial or other uses), the Responsible Parties shall, in addition to any other or further requirements contained in these regulations:

# 4.1 <u>BMPs</u>.

Adopt and cause to be implemented all Best Management Practices applicable to the Construction Activities, including, without limitation, Homeowners' BMPs and Forestry Control BMPs.

# 4.2 Construction Obligations.

Cause the Stormwater Management Systems implementing the BMPs adopted pursuant to Section 4.1, or that are otherwise part of an approved Stormwater Management Plan, to be constructed and installed in compliance with these regulations, the Stormwater Management Plan and applicable BMPs.

# 4.3 Inspection Obligations.

During the Construction Phase and the Post-Construction Phase, (1) allow periodic inspections of the Stormwater Management Systems by and at the discretion of the Stormwater Manager, upon reasonable notice, to confirm that the Stormwater Management Systems are operating to meet the Stormwater Management Goals, under then-current conditions and requirements, and (2) in connection with Covered Construction Activities, confirm permission to conduct such inspections in a Maintenance Agreement if one is required by these regulations.

#### 4.4 Maintenance Obligations.

During the Construction Phase and the Post-Construction Phase, maintain, repair and upgrade the Stormwater Management Systems so that they continue to operate to meet the Stormwater Management Goals, under then-current conditions and requirements, including to address any deficiencies identified during any inspection thereof or the impact of climate change, and confirm the obligation in a Maintenance Agreement if one is required by these regulations.

#### 4.5 Approvals and Permits; Compliance with Law.

Prior to beginning any Construction Activity, obtain all Federal, State and local approvals and permits required in connection therewith, including, without limitation, under NH RSA 236:9, 236:11 and 236:19, NHDES Alteration of Terrain requirements and EPA NPDES Construction General Permits, the Zoning Ordinance, Subdivision Regulations, and Site Plan Review Regulations, as applicable, and thereafter during the Construction Phase and the Post-Construction Phase comply with all applicable laws and regulations, including, without limitation, IDDE requirements, provided, that if there is any conflict between any such laws or regulations, including these regulations, the stricter requirements shall apply.

# 4.6 Expenses.

The Responsible Parties shall bear all costs and expenses associated with the Construction Activities, performance under any required SMP or Maintenance Agreement, the construction and maintenance of the SMS, and compliance with these regulations, including any costs and expenses arising out of the Town's enforcement hereof or of any obligations under a Maintenance Agreement.

### 5.0 GENERAL REQUIREMENTS FOR COVERED CONSTRUCTION ACTIVITIES

#### 5.1 <u>Covered Construction Activities.</u>

For purposes of these regulations, Covered Construction Activities include Construction Activities:

- 1. that, individually or in the aggregate, as part of a larger plan of development or subdivision, propose a disturbed a total area of more than (a) 20,000 square feet or (b) 5000 square feet within 100 feet of any surface water;
- 2. that are proposed in connection with (a) the subdivision of property into a Major Subdivision (as defined in Section B of the Wilton Land Use Laws and Regulations, Subdivision Regulations, as they may from time to time be amended or modified) or (b) development requiring a Major Site Plan review (as defined in Section D of the Wilton Land Use Laws and Regulations, Site Plan Regulations, as they may from time to time be amended or modified);
- 3. to the extent they take place in a Critical Area;
- 4. that will disturb any area adjacent to or in a Town property or right-of-way, including, without limitation, its shoulders, ditches, swales, culverts, embankments or any Town-operated SMS;
- 5. constituting forestry practices to clear land for conversion, as contemplated by NH RSA 227-J; and
- 6. in connection with any Redevelopment (which includes new development, as a result of which more than 60% of the area of the lot(s) involved) will be covered by Impervious Surfaces).

#### 5.2 Exemptions.

For purposes of these regulations, Covered Construction Activities shall not include Construction Activities in connection with:

- 1. Agricultural activities that are conducted in accordance with applicable BMPs;
- Forestry practices for other than land conversion purposes as contemplated by NH RSA 227-J, provided they are conducted in accordance with NH RSA 227-J, other applicable laws and the Forestry Control BMPs;
- 3. Resurfacing and routine maintenance of existing roads, driveways, trails and parking areas; and
- 4. Interior alterations and exterior maintenance to existing buildings and other structures.

#### 5.3 Stormwater Application.

Prior to beginning any Covered Construction Activities, the Responsible Parties shall submit an application containing the information set forth in Section 6.0 to the Planning Board for review and approval at one or more public hearings. No land may be disturbed in connection with any Covered Construction Activities unless and until the Stormwater Application and its component parts have been so approved.

#### 5.4 Performance Guarantee.

The Planning Board may require the Responsible Parties to post a performance guarantee in an amount sufficient to secure completion of the construction of Stormwater Management System(s) in accordance with these regulations, as well as the performance of their other obligations under the Stormwater Management Plan and/or the Maintenance Agreement. The Planning Board shall determine the amount of the guarantee based on a cost estimate provided by the Responsible Parties and reviewed by the Town's consulting engineer, at the expense of the Responsible Parties. The guarantee shall be posted prior to approval of the Stormwater Application and shall be in form acceptable to and approved by the Planning Board, its Counsel (at the expense of the Responsible Parties) and the Select Board. The guarantee shall precisely identify the work to be performed, the completion schedule, the standards for satisfactory completion and shall be released upon the final inspection and determination described in Section 5.6.

# 5.5 <u>Pre-construction Meeting.</u>

Before land is disturbed in connection with any Covered Construction Activity, but after approval of a Stormwater Application, the Planning Board may require the Responsible Parties, their agents, engineers, other technical representatives and contractors to attend a mandatory preconstruction meeting with the Stormwater Manager, the Building Inspector and other representatives of the Town to review and discuss implementation of the approved Stormwater Management Plan, scheduling, construction standards and expectations. Where an applicant subject to other regulations contained in the Wilton Land Use Laws and Regulations is required thereunder to attend a pre-construction meeting, the Planning Board may ask the Stormwater Manager, the Building Inspector or other representatives of the Town to attend that meeting to review and discuss implementation of the Stormwater Management Plan.

#### 5.6 Certificate of Occupancy.

No Certificate of Occupancy may issue unless and until (1) the Responsible Parties have submitted as-built plans of the Stormwater Management System(s) and (2) the Stormwater Manager and the Building Inspector and/or the Town engineer have conducted, at the expense of the Responsible Parties, review and a final inspection of the as-built plans and determined that (a) the Stormwater Management Plan has been implemented as approved and (b) the Stormwater Management System(s) is functioning to meet the Stormwater Management Goals

#### 6.0 STORMWATER APPLICATION REQUIREMENTS

Except as set forth in Section 6.0.10, the Planning Board shall review, consider and act on a Stormwater Application on the timeline set forth for review, consideration and action upon Site Plans in Section D – Site Plan Review Regulations, of the Wilton Land Use Laws and Regulations, as it may from time to time be amended or modified. The Planning Board shall not accept a Stormwater Application for consideration or approval, and it shall not be considered complete, unless the Planning Board, in consultation with the Stormwater Manager, determines that it contains or is accompanied by all of the following (other than those requirements waived by the Planning Board pursuant to Section 11.0):

- 1. <u>Stormwater Application Form</u>. The application form (including the review checklist) attached to this Stormwater Regulations Section, as it may from time to time be amended or modified, completed and signed by the Responsible Parties, together with all fees and other payments authorized by Section 14.0, Fees and Penalties.
- 2. <u>Site drawing</u>. Six (6) copies of a graphic depiction of **both existing and proposed conditions**, including:
  - a. Locus map with property boundaries;
  - b. North arrow; scale; date;
  - c. Address of property; names and addresses of Responsible Parties;
  - d. Topographic contours at two (2)-foot intervals;
  - e. Locations of structures, driveways, roads, utilities, snow storage areas, earth stockpiles and equipment storage areas;
  - f. Vegetation, including types and areas of coverage;
  - g. Impervious Surfaces, including calculation of total square footage thereof;
  - h. Zoning district and overlay boundaries, and, as applicable, 100-year flood plain and wetland, watershed or other setback and buffer boundaries:
  - i. Critical Area boundaries;
  - j. Locations of surface waters (of any size) on site and otherwise within 200 feet of (i) existing manmade features or (ii) any proposed Construction Activity;
  - k. Soil information derived from a National Cooperative Soil Survey (NCSS) soil series map or a High Intensity Soil Map of the site, prepared in accordance with SSSNNE Special Publication No. 1, with areas of poorly drained, very poorly drained, and highly erodible soils highlighted;
  - 1. All Easements, including, without limitation, those required for inspection, maintenance and repair of the SMS;
  - m. Areas proposed to be disturbed, including calculation of the Disturbed Area;
  - n. Areas of cut and fill, including calculations of the separate total volumes to be (i) cut (or removed) and (ii) filled; existing and proposed elevations; and with areas of poorly and/or very poorly drained soils proposed to be filled highlighted;
  - o. The drainage areas that will be affected by Construction Activities;
  - p. Arrows showing the direction of flow of pre- and post-construction Stormwater Runoff;
  - q. Locations, elevations and size of all elements of the Stormwater Management System(s) detailed in the Stormwater Management Plan, with reference to where they are described therein;
  - r. A list of the BMPs considered and to be followed in connection with the Construction Activities; and
  - s. Any other features or information reasonably requested by the Planning Board or the Stormwater Manager.

- 3. Other Permits. Copies of all Federal, State and local permits and approvals required in connection with the proposed Construction Activities, or a list and undertaking to obtain them before any related Construction Activities begin.
- 4. Schedules for each Construction Activity.
- 5. <u>Stormwater Management Plan.</u> Six (6) copies of the Stormwater Management Plan, as set forth in Section 7.0, including the information with respect to the Stormwater Management System(s) required by Section 8.0.
- 6. <u>Maintenance Agreement</u>. The proposed Maintenance Agreement, as described in Section 10.0.
- 7. <u>Other Information</u>. Any other information reasonably requested by the Planning Board or the Stormwater Manager.
- 8. Additional Studies or Review. Before determining to accept a Stormwater Application for consideration or take any action with respect thereto, the Planning Board may in its discretion (1) schedule a site walk, (2) require the applicant to provide additional information, including further studies, and to revise the applicant accordingly, and/or (3) require professional review of information submitted by the applicant, in each case, at the Responsible Parties' expense. The Planning Board may require the applicant to establish an escrow for the payment of any such professional review, as set forth in Section 14.0. Information or other materials requested by the Board shall be submitted for review at least nine days before the public hearing at or to which consideration of the Stormwater Application has been scheduled or continued. Failure to timely submit materials shall result in postponement of the public hearing.
- 9. <u>Professional Seal</u>. The site drawings and the Stormwater Management Plan shall bear the signature(s) and seal(s) of the engineer(s), licensed by the State of New Hampshire, who prepared them.
- 10. Stormwater Application in Connection with Other Applications. If a proposed project requires both a Stormwater Application and one or more applications to the Planning Board for approval of a subdivision, excavation, site plan or other proposed development or use, all such applications shall be submitted together, and reviewed, considered and acted upon on the timeline then set forth in such other applicable regulation, and neither the Stormwater Application nor any other such application shall be considered complete until the information required for all such applications is included in the submission. Notwithstanding any overlapping requirements with other such applications, a Stormwater Application shall nevertheless contain all of the information required by these regulations.
- 11. <u>Waivers</u>. A list of the waivers of any of the requirements of these regulations requested of the Planning Board, supported by explanations, meeting the requirements of Section 11.0.

#### 7.0 STORMWATER MANAGEMENT PLAN

#### 7.1 Generally.

The Stormwater Management Plan shall present the contents of the site drawings required by Section 6.2 in narrative form and shall articulate how each of the Stormwater Management Goals will be addressed by the different elements of Stormwater Management and the Stormwater Management System. The SMP shall describe, qualitatively and quantitatively, the present conditions on the site, the proposed conditions there, including the nature, location, purpose and extent of the proposed Construction Activities, the area(s) they will disturb, and their impact on

the site, in particular on Stormwater Runoff, Infiltration, erosion and other factors affecting the Stormwater Management Goals. The SMP shall detail the application of specific Stormwater Management strategies and BMPs to the Construction Activities, explain how they will be implemented, and analyze their impact on each of the Stormwater Management Goals. It shall identify and detail the function and design of all of the elements of the Stormwater Management System(s), including the calculations on which their design was based.

#### 7.2 Specific Issues.

In addition to the information required by Section 7.1 or otherwise by the Planning Board (and to the extent not already included therein), the Stormwater Management Plan shall also include, address, undertake, acknowledge and/or discuss the following, as applicable:

#### 1. Stormwater Treatment

- a. Controls and mechanisms to be implemented, together with any other strategies or BMPs that will enhance Sedimentation and/or Filtration and limit erosion, with particular attention to any discharge into the MS4;
- b. Where practical, use of natural, vegetated Filtration, detention and/or Subsurface Gravel Wetlands, given its relatively high nitrogen removal efficiency;
- c. Designs to optimize Contaminant removal efficiencies based on standards and performance data published by the UNH Stormwater Center and/or included in the latest version of the NH Stormwater Manual; and
- d. Stormwater Runoff generated by Construction Activities shall be treated on-site;

#### 2. Snow Storage; Deicing

- a. Snow storage measures to be taken during the Construction and Post-Construction Phases, with any runoff from snow storage subject to Stormwater Treatment before being discharged or allowed to Infiltrate;
- b. Minimal use of identified deicing chemicals and salt, consistent with any other requirements applicable to Critical Areas; and
- c. Salt storage and drainage controls in accordance with NH DES published guidance and, if applicable, MS4 permit requirements, including tracking and reporting salt usage using the salt accounting system administered by the UNH Technology Transfer Center [https://sso.roadsalt.unh.edu/];

#### 3. Inspections/BMP Operations and Maintenance Plan

- a. Proposed schedule, procedures and reporting protocols for inspection and maintenance of the Stormwater Management System(s) during the Construction and Post-construction Phases;
- b. Controls to be regularly inspected per the schedule established, but during the Construction Phase, not less frequently than bi-weekly, and within 24 hours after a rainstorm of 0.25 inches in a 24-hour period or greater at any time during or after construction;
- c. Identified deficiencies to be corrected within 48 hours (or, if the public health or welfare may be endangered, within 24 hours), with records thereof retained on-site; and

d. Updates as necessary, with changes subject to Stormwater Manager approval before implementation;

# 4. Drainage Reports

- a. Drainage analysis, including calculations showing volume, Peak Flow and velocity of present and future Stormwater Runoff, as well as a comparison of existing and post-construction estimated Peak Flow at each outlet location for 50-year and 100-year frequency 24-hour storm events, and for rainstorms of one inch in a 24-hour period;
- b. As applicable, an off-site drainage plan (which may be part of the existing conditions discussion), special reports, studies and maintenance information relating thereto;
- c. For subdivisions comprising lots with frontage on existing private or public roadways, additional discussion of Stormwater Management for Stormwater Runoff from the new lots discharging to the roadside Drainage System;

#### 5. Erosion, Stabilization

- a. Both temporary and permanent soil stabilization measures in accordance with the NHDES Stormwater Manual Volume 3;
- b. Upon completion of construction, the site shall be stabilized, temporary measures shall be removed, and affected areas shall be restored, as confirmed in the final inspection contemplated by Section 5.6;
- 6. Stormwater Management System design and performance information as set forth in Section 8.0;
- 7. Impact of Construction Activities on (a) existing topography, (b) drainage patterns, (c) soils, (d) ground cover, I Critical Areas, (f) upstream areas draining through the site, (g) adjacent development, (h) existing stormwater facilities, (i) on- and off-site utilities, (j) surface water and (k) other pertinent features;

#### 8. Demonstrate that:

- a. The Construction Activities will not affect downstream systems negatively; and
- b. The downstream systems have adequate capacity to handle flow conditions postconstruction:
- 9. Use of Low Impact Development strategies to the maximum extent practicable to meet Stormwater Management Goals;

#### 10. Impervious Surfaces

- a. Minimize Impervious Surfaces for parking areas and roads to the extent practicable;
- b. Stormwater Runoff from new Impervious Surfaces to be directed to a subsurface Stormwater Treatment mechanism or discharged to a naturally occurring or fully replanted and vegetated area with slopes of 15 percent or less and with adequate controls to prevent soil erosion and concentrated flow; and
- c. Stormwater Runoff from all Impervious Surfaces shall be treated to remove at least 90% of Total Suspended Solids and at least 60% of both total nitrogen and total phosphorus, as specified in the NH Stormwater Manual, Volumes 1 and 2, December 2008, as amended, or by another equivalent source;

- 11. Post-construction Peak Flow in any location shall not exceed the Peak Flow at that location before Construction Activities began;
- 12. Facilitate post-construction Infiltration to maximize the groundwater recharge volume in accordance with NHDES Alteration of Terrain requirements and applicable BMPs;

#### 13. Landscaping

- a. Stormwater Treatment areas to be planted with vegetation appropriate for the site conditions: trees, grasses, shrubs and/or other plants in sufficient numbers and density to prevent erosion and to facilitate Infiltration; and
- b. Existing site vegetation to be retained, protected, restored and/or supplemented;

#### 14. Miscellaneous

- Stump removal and disposal;
- b. Describe the tributary area (include at least one-quarter (1/4) mile downstream), drainage channels, conveyance systems and downstream receiving waters; and
- c. Appendices (copies of tables, graphs, charts, test pit, percolation test and other data and assumptions used in any required calculations).

# 7.3 <u>Updates; Alterations.</u>

The SMP shall be updated, if necessary, during the Construction Phase and the revisions submitted to the Planning Board and the Stormwater Manager for approval. No SMS structure or feature shall be altered without the prior approval of the Planning Board in consultation with the Stormwater Manager and other Town officials, as appropriate. The costs of any alteration, or professional review, repair or restoration of any structure or feature altered in violation of this Section, shall be borne, jointly and severally, by the Responsible Parties.

# 7.4 Annual Certification.

- 1. By September 1 of each calendar year, an engineer licensed by the State of New Hampshire representing the Responsible Parties shall file with the Stormwater Manager an annual report:
  - a. Confirming compliance with the SMP;
  - b. Confirming that the individual components of the Stormwater Management System, and the SMS as a whole, are functioning as contemplated in the SMP and continue to meet the Stormwater Management Goals;
  - c. Identifying any necessary repairs (other than routine maintenance) to any component of the SMS during the prior year and confirming their completion, or the scheduled date thereof; and
  - d. If the SMS or any component thereof is not functioning per the SMP, the nature of the malfunction or deficiency, what action will be taken to address the malfunction or deficiency, and when it will be completed; and
- 2. If the report is not filed by September 1, the Stormwater Manager, together with any professional consultants the Stormwater Manager may determine, may access the site, at a time agreed with the Responsible Parties and at their expense, to determine compliance with these regulations.

# 7.5 <u>Incorporation into Management Agreement.</u>

The approved SMP shall be incorporated by reference into the Maintenance Agreement, and the obligations of the Responsible Parties thereunder shall run with the land.

#### 8.0 STORMWATER MANAGEMENT SYSTEM DESIGN AND PERFORMANCE

# 8.1 Generally.

The SMP shall provide design information and drawings, performance standards and protection criteria for each element, temporary or permanent, structural or non-structural, of the Stormwater Management System, in each case in compliance with BMPs, the NHDES Alteration of Terrain program, to the extent applicable, and these regulations. The SMP shall identify all proposed above-ground LID mechanisms or structures and include digital files containing the coordinates in New Hampshire State Plane feet using the North American Datum 1983 (NAD83) or newer; and in North American Vertical Datum 1988 (NAVD88), of all structural elements of the SMS (e.g., catch basins, swales, detention/bioretention areas, piping). The design of the SMS shall take into account existing site hydrology, including flows originating from off-site, as well as seasonal high water tables.

#### 8.2 Sizing.

- 1. Each element of the SMS, including, without limitation, emergency overflow structures, shall be sized based on the 100—year frequency 24- hour storm discharge rate utilizing then-current precipitation data from the Northeast Region Climate Center (NRCC) or the most recent precipitation atlas published by the National Oceanic and Atmospheric Administration (NOAA). See NRCC website at [http://precip.eas.cornell.edu/] (unsecured website);
- 2. Temporary (additional) detention, Infiltration and/or Sedimentation facilities may be designed to accommodate the storm most likely to occur during the anticipated duration of construction;
- 3. The soil-cover complex method (TR 20) to compute runoff volume and peak rate of discharge shall be used to design detention structures that will reduce future condition peak rate of discharge, which design shall conform to applicable criteria set forth in the NH Stormwater Manual:

#### 8.3 Setbacks and Buffers.

Except as necessary to transport Stormwater Runoff as part of a drainage system, no element of an SMS shall be located in any applicable (1) setback or (2) buffer required by the Planning Board or otherwise by the Wilton Land Use Laws and Regulations. Whether or not an NHDES Alteration of Terrain Permit is required in connection with any Construction Activity, all discharge from the SMS shall comply with the setback requirements from water supply sources established in the NHDES Alteration of Terrain Permit Program Rules (see Env-Wq 1508.02).

### 8.3 Performance.

- 1. The SMP shall include calculations of the change in Impervious Surface, removal rates and other relevant performance data for each element of the Stormwater Management System;
- 2. Elements of the SMS and other areas that receive rainfall runoff shall be designed to drain within a maximum of 72 hours for vector control, unless specifically identified and

- approved for longer term water storage. The design of the stormwater drainage systems shall provide for the disposal of stormwater without flooding or functional impairment of streets, adjacent properties, downstream properties, soils, or vegetation; and
- 3. Discharge from Drainage Systems shall not flood or functionally impair streets, adjacent or downstream properties, or onsite soils, structures, vegetation or any downstream Critical Areas.

# 9.0 ADDITIONAL REQUIREMENTS FOR REDEVELOPMENT

Stormwater Runoff in connection with Redevelopment shall be managed by onsite measures that result in treatment of 100% of the additional proposed Impervious Surface area and at least 30% of the existing Impervious Surface area, preferably using Filtration and/or Infiltration processes, or, if they would result in greater overall water quality, LID strategies implemented to the maximum extent practicable to treat Stormwater Runoff generated from at least 60% of the total Impervious Surface on the site.

#### 10.0 MAINTENANCE AGREEMENT

The Maintenance Agreement shall, among other things, be in recordable form and substance acceptable to the Planning Board and its counsel, address the identified Responsible Parties' joint and several obligations to:

- 1. Comply with, and from time to time update, in accordance with these regulations, the requirements of the SMP, which shall be incorporated into the Maintenance Agreement by reference;
- 2. Permit ongoing post-construction inspections of the site by the Stormwater Manager and/or the Building Inspector, as set forth in the SMP;
- 3. Maintain, repair and upgrade the Stormwater Management System(s) from time to time as necessary for it to continue to function as set forth in the SMP and to meet the Stormwater Management Goals;
- 4. Deliver the annual certifications described in Section 7.4 and otherwise as set forth in the SMP;
- 5. Authorize the Town to perform any of the obligations of the Responsible Parties under the Maintenance Agreement in the event of any default;
- 6. Record access easements as required by the Town to permit it to take any action under Section 10.0.5; and
- 7. Bear all expenses of performance under the Maintenance Agreement, as well as the costs and expenses, including, without limitation, professional consultants, attorneys and any other third-party fees, incurred by or on behalf of the Town in connection with (a) actions undertaken pursuant to Section 10.0.5, (b) enforcing the Maintenance Agreement or (c) recording the Maintenance Agreement, and post a bond or other security for the payment thereof as the Town may from time to time require, and in an amount determined by the Town in its discretion.

#### 11.0 WAIVERS

The Planning Board may adapt or waive any of the requirements of these regulations, in whole or in part, and in particular for smaller or less complex projects, upon a request from the Responsible Parties and a showing that (a) strict conformity would pose an unnecessary hardship

and waiver would not be contrary to the spirit and intent of these regulations; or (b) specific circumstances relative to the project, or specific site conditions, indicate that the waiver will properly carry out the spirit and intent of these regulations.

# 12.0 ADMINISTRATION AND ENFORCEMENT

These regulations shall be administered by the Planning Board and the Stormwater Manager, as provided herein and may be enforced by the Select Board, the Stormwater Manager or the Wilton Building Inspector, as contemplated by the Zoning Ordinance.

#### 13.0 AMENDMENTS

These regulations may be amended by the Board following a public hearing on the proposed changes. Amendments to the regulations shall take effect when a copy of the approved amendments is filed with the Wilton Town clerk.

#### 14.0 FEES AND PENALTIES

A stormwater application will be processed only if accompanied by the application and other fees, administrative charges and deposits set forth in Appendix III, including, without limitation, escrow deposits for the cost of all reviews by the Stormwater Manager and any additional studies and/or professional reviews required by the Board from time to time pursuant to Section 6.0.8 or otherwise. Escrow deposits shall be replenished from time to time as required by the Board or its designate. An application will not be submitted to the Board until all such payments then due have been made.

Any violation of these regulations shall be subject to a civil fine as provided in RSA 676:16 and 676:17, as amended. The Select Board, the Stormwater Manager or the Wilton Building Inspector may institute appropriate action under the provisions of RSA 676:17.

In addition, to the extent permitted by applicable law, the Town may prohibit an individual or entity (or its affiliate) from pursuing a stormwater application for a period of five years following the individual's/entity's/affiliate's second violation of any of the requirements of these regulations.

#### 15.0 CONFLICT AND SEVERABILITY

Wherever these regulations conflict with any Federal State or local law, ordinance or other regulation, the provision that imposes the greater restriction or the higher standard shall govern. If any section, provision, portion, clause or phrase of these regulations shall be declared invalid or unconstitutional, such invalidity shall not impair or invalidate any other section, clause, provision, portion or phrase of these regulations.

#### 16.0 EFFECTIVE DATE

These regulations shall become effective upon adoption by the Planning Board in accordance with applicable law.

# PLANNING BOARD TOWN OF WILTON, NH

#### STORMWATER APPLICATION

(Amended January 4, 2023)

# 1. Property Information

Describe the lot(s) to which this application applies (the location of proposed development, construction, improvement or structure requiring the permit). If more than one lot is involved, describe them below or attach additional copies of this page.

Tax Map and Lot Number	Lot Size				
Street Address					
Zoning District (check one):  ☐ Residential ☐ General Residence and ☐ Commercial ☐ Industrial ☐ Office					
Relevant Overlay Districts (check any that ap  Research and Office Park  Floodpl  Wetlands Conservation  Aquifer Pa	ain Conservation				
Ongoing or Proposed Use of Property (check any that apply):  Agricultural Commercial or Industrial Residential Single Lot Residential Subdivision Utility					
Brief description of Use(s):  Check this box if this lot(s) is part of a <b>concurrent</b> site plan or subdivision plan review application.  Check this box if this lot(s) is part of a previously approved site plan or of an approved subdivision.					
2. Owner					
List all owners of each lot below or attach ad	ditional copies of this page.				
Name (individual(s), company or other):					
Mailing address (Street, Town, State, Zip):					
If not an individual, name of contact:					
Complete one entry below for each owner:					
☐ Daytime phone	Evening phone				
☐ Work e-mail	Personal e-mail				

3. Applicant		
☐ Same as owner		
If the applicant is other than the owner(s) (following information.	e.g., tenant, developer, proposed p	ourchaser), provide the
Name (individual(s), company or other):		
Mailing address (Street, Town, State, Zip):		
If not an individual, name of contact:		_
Complete one entry below:		
☐ Daytime phone	Evening phone	
☐ Work e-mail	Personal e-mail	
Relationship to the Property:		_
4. Representative of the Applicant		
If a representative is authorized to act on b Zoning Board, or otherwise to respond to c to those Boards, the Secretary of the Plann provide the following information.	questions or provide further inform	nation about this application
Name:		
Company (if any):		
Mailing address (Street, Town, State, Zip):	:	
Complete one entry below:		_
☐ Daytime phone	Evening phone	
☐ Work e-mail	Personal e-mail	
(application continues next page)		

5. Re	equired Stormwater Application Information	
Provide a description of the project for which the stormwater application is requested. Include development name, type, start date, and total square footage of land to be altered/cleared. Attached additional sheets as necessary.		
In add	ition:	
	Provide six (6) copies of a site drawing that complies with Section 6.0, together with all supporting documentation pur Sections 6.0, 7.0, 8.0 and 9.0, as well as copies of a propose with Section 10.0.	rsuant to and in compliance with
	Fill out and complete the attached checklist.	
6. Al	butters	
than fi roadwa 676:4-	n a list of the names and addresses of all abutters identified in twe (5) days prior to submitting this application. The list shall ays and/or streams, the owner(s) of each such property, and a I (d) and 676:7 I(a) and Section 4.14 of the Wilton Zoning Of mailing labels for the abutters.	include all abutters directly across ll others identified in RSA Sections
7. Fe	ees	
	e payment of the following permit and notification fees with ilton Land Use Laws and Regulations – Application Fee Sche	
Storm	water Application Fee:	\$
Public	\$	
Abutte	er Notification Fee:	
	# of abutters x \$/abutter	\$
Total		<b>\$</b>
payme	e Note: In addition, the Planning Board may require the applicant of the fees of professional consultants or advisors to the Board amounts as the Planning Board may determine ("Escrovational Consultants").	oard, at such times, for such purposes,
(appli	cation continues next page)	

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# 8. Authorizations, Undertakings and Signatures

Owner(s):

(checklist on following pages)

This application must be signed by the owner(s), the applicant and any representative of the applicant, as set forth below. Attach additional copies of this page, if necessary.

	to the best of his/her/its knowledge and belief, all of the espect to the property(ies) owned by him/her/it identified			
Name (individual(s), company or other):				
Signature:	Date			
Print Name and Capacity if signing on behal	lf of non-individual owner:			
Applicant (must be executed even if the appl	licant is also an owner):			
The undersigned applicant hereby (a) certifies, to the best of his/her/its knowledge and belief, that all of the information provided in this application is true, complete and correct; (b) agrees to be fully responsible for the payment of all fees, costs and expenses associated with this application and the project the subject hereof, including, without limitation, Escrow Fees, and (c) authorizes the above-named representative, if any, to act on behalf of the applicant before the Wilton Planning Board or Zoning Board, or otherwise to respond to questions or provide further information about this application to those Boards or the Secretary.				
Name (individual(s), company or other):				
Signature:	Date			
Print Name and Capacity if signing on behal	lf of non-individual applicant:			
Representative:				
behalf of the applicant before the Wilton Plann	rledges and accepts the applicant's authorization to act on ing Board or Zoning Board, or otherwise to respond to this application to those Boards or the Secretary.			
Name (individual(s), company or other):				
Signature:	Date:			
Print Name and Capacity if signing on behal				

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# PLANNING BOARD TOWN OF WILTON, NH

# STORMWATER APPLICATION REVIEW CHECKLIST

(Amended January 4, 2023)

This checklist is intended to help the applicant and staff to ensure application completeness. If there is any discrepancy between the checklist and regulations, the actual regulations shall control.

#### I. SITE DRAWING STANDARDS

Key	): Y=	=Yes	P = Pe	nding	W=Waiver Re	equest	NA=Not Applicable
	<u>Y</u>	<u>P</u> <u>W</u>	<u>NA</u>				
1.			S	ix (6) cop	oies of the site	drawing a	nn identical digital copy. (Sec. 6.0.2)
2.				- Locus	map with prop	erty bound	daries. (Sec. 6.0.2.a)
3.				- North a	arrow; scale; da	ate. (Sec.	6.0.2.b)
4.				- Addres	s of property;	names and	d addresses of Responsible Parties. (Sec. 6.0.2.c)
5.				- Topogr	aphic contours	s at 2-foot	t intervals. (Sec. 6.0.2.d)
6.							rays, roads, utilities, snow storage areas, earth e areas. (Sec. 6.0.2.e)
7.				- Vegeta	tion, including	types and	d areas of coverage. (Sec. 6.0.2.f)
8.				- Imperv (Sec. 6.0		including	g calculation of total square footage thereof.
9.				_		•	undaries, and, as applicable, 100-year flood plain buffer boundaries. (Sec. 6.0.2.h)
10.				- Critica	l Area boundar	ries. (Sec.	6.0.2.i)
11.							site and otherwise within 200 feet of existing sed Construction Activity. (Sec. 6.0.2.j)
12.				Map of twith are	he site, prepare	ed in acco ained, ver	an NCSS soil series map or a High Intensity Soil ordance with SSSNNE Special Publication No.1, ry poorly drained, and highly erodible soils
13.				- Easem	ents. (Sec. 6.0.)	2.1)	
14.				- Areas j (Sec. 6.0	_	disturbed	l, including calculation of the Disturbed Area.
15.				cut and t	illed; existing	and prop	calculations of the separate total volumes to be osed elevations; and with areas of poorly and/or ed to be filled highlighted. (Sec. 6.0.2.n)
16.				- The dra	ainage areas th	at will be	affected by Construction Activities. (Sec. 6.0.2.o
17.				- Arrows	s showing the d	direction o	of flow of Stormwater Runoff. (Sec. 6.0.2.p)

Sheet 1 of 2 Continued >

# STORMWATER APPLICATION REVIEW CHECKLIST

(Amended January 4, 2023)

This checklist is intended to help the applicant and staff to ensure application completeness. If there is any discrepancy between the checklist and regulations, the actual regulations shall control.

I. SITE DRAWING STANDARDS (CONTINUED)				
Key: Y=Yes	P=Pending W=Waiver Request	NA=Not Applicable		
<u>Y</u> <u>P</u> <u>W</u> 18. □ □ □		e of all elements of the Stormwater Management nwater Management Plan, with reference to where ec. 6.0.2.q)		
19.	- A list of the BMPs considered Construction Activities. (Sec. 6	d and to be followed in connection with the 6.0.2.r)		
20.	- Any other features or informathe Stormwater Manager. (Sec	ation reasonably required by the Planning Board or . 6.0.2.s)		
21.	The site drawings shall bear the s State of New Hampshire, who	signature and seal of the engineer, licensed by the prepared them. (Sec. 6.0.9)		
II. STORMWA	ATER MANAGEMENT PLAN STAND	OARDS		
22. 🔲 🔲 🗀	☐ - Six (6) copies of the Stormwater	Management Plan. (Sec. 6.0.5)		
23. 🔲 🔲 🗀	- Meet all requirements set for	th in Section 7.0.		
24. 🗌 🗎 🗀	- Include all information with required by Section 8.0.	respect to the Stormwater Management System(s)		
25. 🗌 🗎 🗀	- Incorporate the additional rec 9.0.	quirements for redevelopment set forth in Section		
26.		an shall bear the signature and seal of the engineer, Hampshire, who prepared them. (Sec. 6.0.9)		
III. OTHER II	NFORMATION			
27. 🗌 🖺 🗀		ocal permits and approvals required in connection n Activities, or a list and undertaking to obtain then n Activities begin. (Sec. 6.0.3)		
28. 🗌 🔲 🗀	Schedules for each Construction	Activity. (Sec. 6.0.4)		
29. 🗌 🖺 🗀	]  - The proposed Maintenance Agre	ement, as described in Section 10.0. (Sec. 6.0.6)		

Sheet 2 of 2 - End