

Williamson County, Tennessee

Storm Water Management Regulations

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Storm Water Management Regulations**

Table of Contents

Section 1: General.....	1-1
1.1 Title.....	1-1
1.2 Preamble	1-1
1.3 Purpose and Authority.....	1-1
1.4 Applicability and Jurisdiction	1-2
1.5 Exemptions.....	1-2
1.6 Duty to mitigate	1-2
1.7 Duty to provide information	1-2
1.8 Other information	1-2
1.9 Savings Provision.....	1-2
Section 2: Standards	2-1
2.1 Storm Water Quantity.....	2-1
2.2 Storm Water Quality.....	2-1
Section 3: Storm Water Runoff Controls	3-1
Section 4: Waterway Natural Areas	4-1
4.1 General Waterway Natural Area Requirements.....	4-1
4.2 Permitted Waterway Natural Area Uses	4-2
4.3 Stream Improvements or Restoration	4-3
Section 5: Storm Water System Long-Term Operation and Maintenance.....	5-1
Section 6: Land Disturbance Permits.....	6-1
6.1 Applicability	6-1
6.2 Land Disturbance Permit Application	6-1
6.3 Fee Schedule	6-1
Section 7: Inspections	7-1
7.1 Owner/Operator Inspections	7-1
7.2 County Inspections.....	7-1
Section 8: Violations and Enforcement	8-1
8.1 Violations.....	8-1
8.2 Enforcement.....	8-1
8.3 Notification of Violation.....	8-1
8.4 Conflicting standards.....	8-3
Section 9: Penalties.....	9-1
9.1 Penalties.....	9-1
9.2 Payment of Penalties	9-1
9.3 Specific Penalties	9-1
9.4 Measuring civil penalties	9-2
9.5 Recovery of Damages and Costs	9-2
9.6 Other Remedies	9-3
9.7 Remedies Cumulative	9-3
9.8 Emergency Orders and Abatement	9-3
Section 10: Creation and Authority of Storm Water Appeals Board	10-1
10.1 Creation of Board	10-1
10.2 Applications for Appeals.....	10-1
10.3 Application for Waiver	10-3

10.4	Appealing decisions of the Storm Water Appeals Board	10-5
Section 11:	Administration and Miscellaneous.....	11-1
Section 12:	Definitions and Abbreviations.....	12-1
12.1	Definitions.....	12-1
12.2	Abbreviations.....	12-8
Section 13:	Performance Bonds	13-1

Section I: General

I.1 Title

These Regulations shall be known, cited and referred to as the “Storm Water Regulations of Williamson County, Tennessee”

I.2 Preamble

The Williamson County Board of Commissioners finds and declares that it is in the best interest of the citizens of Williamson County to regulate the discharge of storm water, alleviate the effects of flooding and facilitate compliance with the Water Quality Act of 1977, the Water Quality Act of 1987 and the Clean Water Act of 1977. In furtherance of same, the Williamson County Board of Commissioners hereby adopts these Regulations governing storm water discharges, storm water management, flood control, erosion prevention, and water quality protection.

I.3 Purpose and Authority

- A. Protect, maintain, and enhance the environment of Williamson County and the public health, safety and the general welfare of the citizens of the County, by controlling discharges and associated pollutants to the municipal separate storm sewer system (MS4) and to maintain and improve the quality of the receiving waters into which the storm water outfalls flow.
- B. Enable Williamson County to comply with the National Pollution Discharge Elimination System permit (NPDES) and applicable regulations, 40 CFR §122.26 for storm water discharges.
- C. Allow Williamson County to exercise the powers granted in Tennessee Code Annotated §68-221-1105 or as amended by the State of Tennessee.
- D. Williamson County shall have authority to implement and supplement these Regulations by reference to appropriate guidance or other related materials including information presented in the Williamson County Stormwater Management Manual (SWMM). Guidance or other related materials may be modified to meet the objectives and policies of this regulation, so long as such modifications to guidance or other related materials are not contrary or beyond the intent of these Regulations. The guidance or other related materials shall not in any way endorse specific commercially available products. However, they may refer to performance specifications, classes of devices, construction, or management practice.
- E. Williamson County shall have right-of-entry upon the property subject to these Regulations and any permit/document issued hereunder. Williamson County shall be provided ready access to all parts of the premises for the purposes of inspection, monitoring, sampling, inventory, records examination and copying, and the performance of any other duties necessary to determine compliance with these Regulations.
- F. Where a property, site or facility has security measures in place that require proper identification and clearance before entry into its premises, the owner/operator shall make necessary arrangements with its security personnel so that, upon presentation of suitable identification, Williamson County will be permitted to enter without delay for the purposes of performing specific responsibilities.

- G. Williamson County shall have the right to utilize on the owner/operator property such devices as are necessary to conduct sampling and/or metering of the person's storm water operations or discharges.
- H. Any temporary or permanent obstruction to safe and easy access to the areas to be inspected and/or monitored shall be removed promptly by the owner/operator at the written or verbal request of Williamson County. The costs of clearing such access shall be borne by the owner/operator. The County reserves the right to determine and impose inspection schedules necessary to enforce the provisions of these Regulations.

I.4 Applicability and Jurisdiction

The Storm Water Regulations shall govern all properties within the unincorporated limits of Williamson County, Tennessee.

I.5 Exemptions

The following activities are exempt from the requirements of these Regulations:

- A. Any emergency activity that is immediately necessary for the protection of life, property, or natural resources;
- B. Agriculture and associated structures; and
- C. Any silviculture activity that is consistent with an approved timber management plan prepared or approved by the State of Tennessee.

I.6 Duty to mitigate

The owner/operator shall take all reasonable steps to minimize or prevent any discharge in violation of these Regulations.

I.7 Duty to provide information

The owner/operator shall furnish to Williamson County any information that is requested to determine compliance with these Regulations or other information.

I.8 Other information

When the owner/operator becomes aware that the owner/operator failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to Williamson County, the owner/operator shall promptly submit such facts or information.

I.9 Savings Provision

These regulations shall not be construed as altering, modifying, vacating or nullifying any rights or obligations obtained by any person, firm or corporation through approval of a concept plan, preliminary plat or final plat, whichever first occurs, by the Williamson County Regional Planning Commission or through the approval of any land disturbance permit.

Residential lots platted prior to January 1, 2005 shall be exempt from the Waterway Natural Area requirements of Section 4 of these Regulations where improvements or activities are not subject to plat revision or the "Tennessee General Permit for Stormwater Discharges Associated with Construction Activities."

Section 2: Standards

2.1 Storm Water Quantity

- A. New development shall meet a storm water quantity level of service defined by:
 - 1. Designing road catch basins and connecting culverts to convey the 10-year, 24-hour design storm runoff.
 - 2. Designing bridges, channels and cross-drains to pass the 25-year, 24-hour design storm runoff. Calculations shall also be provided for the 100-year, 24-hour design storm.
- B. Storm water infrastructure shall be designed in the following manner:
 - 1. Critical service roads shall be designed to have no more than three (3) inches of road overtopping at the 100-year, 24-hour design storm event.
 - 2. Other new roads shall be designed to have no more than six (6)-inches of road overtopping at the 25-year, 24-hour design storm event.
- C. Re-development activities will be required to follow storm water quantity requirements.

2.2 Storm Water Quality

- A. Pursuant to the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) program administered by the Tennessee Department of Environment and Conservation (TDEC), illicit discharges to the MS4 are illegal, prohibited and a violation of these Regulations.
- B. Unless Williamson County has identified them as a source of pollutants to Intermittent or Perennial Stream Waterways, or the MS4, the following discharges into the MS4 are lawful and not considered illicit:
 - 1. Discharges from emergency firefighting activities
 - 2. Rising ground waters
 - 3. Uncontaminated groundwater infiltration to separate storm sewer systems (as defined by 40 CFR§35.2005 (20))
 - 4. Uncontaminated pumped ground water
 - 5. Discharges from potable water sources as required for system maintenance
 - 6. Water line flushing
 - 7. Foundation, footing, and crawl space drains and pumps
 - 8. Air conditioning condensate
 - 9. Landscape and lawn irrigation
 - 10. Springs
 - 11. Individual residential vehicle washing
 - 12. Flows from riparian habitats and wetlands
 - 13. Dechlorinated swimming pool discharges
 - 14. Street wash waters
 - 15. Diverted stream flows
- C. Contamination of storm water runoff from Hot Spots shall be prohibited and subject to the maximum penalties as specified in Section 9 of these Regulations.
- D. Except for the lawful discharges into the MS4 listed in Section 2.2.B above, all storm water discharges that do not meet the requirements for Storm Water Quality or Storm

Water Quantity as outlined and required in these Regulations, into the MS4 are illicit discharges.

E. An illicit discharge or illicit discharges are determined according to the following criteria:

- I. The storm water discharge shall not cause an objectionable color contrast in any watercourse under County jurisdiction. In order to determine objectionable color contrast, the County Engineer, Storm Water Quality Coordinator or designee, using the best information available and based upon their knowledge, experience and education shall consider:
 - a. color (true and apparent) of the water;
 - b. the presence of colloids in the water;
 - c. any floating solids, oil, grease or scum in the water;
 - d. any floating materials in the water of a persistent nature from other than natural causes;
 - e. materials producing true color resulting from other than natural causes that create an aesthetically undesirable condition and substantial visible contrast with the natural appearance of the water;
 - f. any materials in the water that produce color, odor or other conditions in such degree as to create a nuisance;
 - g. any materials in the water that are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such degree as to create a nuisance or be unsightly; or
 - h. any materials in the water that will form putrescent or otherwise objectionable deposits.

OR

2. The storm water discharge shall not cause an objectionable turbidity in any watercourse under County jurisdiction. In order to determine objectionable turbidity, the following turbidity standard shall be utilized:

All waters shall be free from turbidity which results in substantial visual contrast in a water body due to man-made activity. The upstream appearance of a body of water shall be observed at a point immediately upstream of a turbidity-causing man-made activity, and that upstream appearance shall be compared to a location where the turbidity is observed. The County Engineer, Storm Water Quality Coordinator or designee, using the best information available and based upon their knowledge, experience and education shall determine the presence or lack of objectionable turbidity.
- F. Development and redevelopment projects must be designed to reduce pollutants by applying permanent stormwater standards.
 - I. Stormwater Control Measures (SCMs) must be designed, at a minimum, to achieve an overall treatment efficiency of 80% Total Suspended Solids (TSS) removal from the water quality treatment volume (WQTV).
 2. Compliance with permanent stormwater standards shall be demonstrated by submission of work sheets utilizing the Tennessee Runoff Reduction Assessment Tool (TNRRAT), Stormwater Treatment Assessment Resources (STAR), or other methodology approved by the Williamson County Engineering Department.

3. Stormwater Control measures must be designed to provide full treatment capacity within 72 hours following the end of the preceding rain event for the life of the new development or redevelopment project.
4. The water quality treatment design storm is a 1-year, 24-hour storm event as defined by Precipitation-Frequency Atlas of the United States. Atlas 14. Volume 2. Version 3.0. U.S. Department of Commerce. National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Springs, Maryland or its digital product equivalent.
5. The quantity of the WQTV depends on the type of treatment provided, as established in the following table:

Table 2.2-1: Water Quality Treatment Volume and the Corresponding SCM Treatment Type for the 1-year, 24-hour design storm
Runoff generated from impervious surface

SCM Treatment Type	WQTV	Notes
Infiltration, evaporation, transpiration, and/or reuse	Runoff generated from the first 1 inch of the design storm	Examples include, but are not limited to, bioretention, stormwater wetlands, and infiltration systems
Biologically active filtration, with an underdrain	Runoff generated from the first 1.25 inches of the design storm	To achieve biologically active filtration, SCMs must provide minimum of 12 inches of internal water storage.
Sand or gravel filtration, settling ponds, extended detention ponds, and wet ponds	Runoff generated from the first 2.5 inches of the design storm or the first 75% of the design storm, whichever is less	Examples include, but are not limited to, sand filters, permeable pavers, and underground gravel detention systems. Ponds must provide forebays comprising a minimum of 10% of the total design volume. Existing regional detention ponds are not subject to the forebay requirement.
Hydrodynamic separation, baffle box settling, other flow-through manufactured treatment devices (MTDs), and treatment trains using MTDs	Maximum runoff generated from the entire design storm	Flow-through MTDs must provide an overall treatment efficiency of at least 80% TSS reduction.

6. Treatment trains using manufactured treatment devices (MTDs) must provide an overall treatment efficiency of at least 80% TSS reduction utilizing the following formula:

$$R = A + B - (A \times B) / 100$$

Where: R = total TSS percent removal from application of both SCMs,

A = the TSS percent removal rate applicable to the first SCM, and

B = the TSS percent removal rate applicable to the second SCM.

7. TSS removal rates for MTD must be evaluated using industry-wide standards, and TSS removal rates for other SCMs must be from published reference literature.
8. Treatment trains using infiltration, evaporation, transpiration, reuse, or biologically active filtration followed by sand or gravel filtration, settling ponds, extended detention ponds or wet ponds may subtract the treated WQTV of the upstream SCMs from the WQTV of the downstream SCMs.
9. The permanent stormwater management program may allow for a reduction of the WQTV up to 20% for Redevelopment projects (including, but not limited to, brownfield redevelopment).
10. Where permanent wet storage will be utilized, an Integrated Pest Management Plan, designed for long term control of mosquitos and other pests, must be prepared and recorded with the long term Stormwater Operation and Maintenance Plan.

G. Re-development activities will be required to follow storm water quality requirements.

Section 3: Storm Water Runoff Controls

- A. Land disturbance activities, or development, shall not cause or adversely impact upstream or downstream flooding. Activities or development with the potential to adversely impact offsite drainage conditions shall provide appropriate stormwater controls as required herein.
- B. Detention and retention facilities or other flow attenuation methods shall be sized such that the post-development peak discharge rate is less than or equal to the pre-development peak discharge rate for the 2-year, 5-year, 10-year, 25-year, 50-year, and 100-year, 24-hour design storms.
- C. The 24-hour storm design requirement outlined in Section B above is a minimum control standard. Regardless of the facilities, methodologies, Stormwater Control Measures (SCMs) or Best Management Practices (BMPs) used for storm water runoff controls, illicit discharges, as defined by these Regulations, are prohibited.
- D. Water quality measures such as forebays or other SCMs/BMPs shall be incorporated into detention facilities for added quality benefit and ease of maintenance.
- E. Consideration shall be given to the use of regional facilities.
- F. Detention and retention facilities shall not be located in the right-of-way or in a Waterway Natural Area.
- G. Detention and retention facilities shall only be located on commonly owned areas or parcels, and shall not be located on parcels or lots intended for single-family residential uses.

Section 4: Waterway Natural Areas

4.1 General Waterway Natural Area Requirements

- A. Waterway Natural Areas shall be applied along all intermittent and perennial streams which may be determined by the County, State, or a Tennessee Qualified Hydrologic Professional (TN-QHP).
- B. Waterway Natural Areas (WNAs) shall be required in all subdivisions as defined by the Williamson County Subdivision Regulations. Where Open Space is required by the Williamson County Zoning Ordinance (WCZO), WNAs shall be placed in Open Space unless WNAs are allowed on private lots per Section 13.02 of the WCZO. Where Open Space is not required, WNAs shall be allowed on private lots. WNAs should be identified at the pre-application phase; however the County reserves the right to identify a watercourse until the preliminary plat approval.
- C. Waterway Natural Area width shall be at least 100-feet perpendicular from the top of bank on each side of the waterway where the tributary drainage area is greater than or equal to five (5) square miles.
- D. Waterway Natural Area width shall be at least 75-feet perpendicular from the top of bank on each side of the waterway where the tributary drainage area is greater than or equal to one (1) square mile and less than five (5) square miles.
- E. Waterway Natural Area width shall be at least 50-feet perpendicular from the top of bank on each side of the waterway where the tributary drainage area is less than one (1) square mile.
- F. For sites that contain and/or are adjacent to a receiving stream designated as having unavailable parameters (impaired) or Exceptional Tennessee Waters, Waterway Natural Areas may be increased to be equivalent with buffer zone requirements in the "Tennessee General Permit for Stormwater Discharges Associated with Construction Activities."
- G. Waterway Natural Areas shall be recorded on all plats approved after the effective date of the Regulations and on the plat for parcels subject to plat revision.
- H. Waterway Natural Area designations shall not reduce Base Site Area (as defined in the Williamson County Zoning Ordinance) and may be included as part of the required Open Space.
- I. All site development plans and plats prepared for recording shall:
 - 1. Define the boundaries of any WNA on the subject property and be labeled as "Waterway Natural Area."
 - 2. Provide a note to reference any WNA stating: "There shall be no clearing, grading, construction or disturbance of vegetation except as permitted by the Williamson County Engineering Department."
 - 3. Provide a note to reference any protective covenants governing all WNA stating: "Any Waterway Natural Area shown hereon is subject to protective covenants which may be found in the land records and which restrict disturbance and use of these areas."
- J. All WNAs must be protected during development activities. Construction layout survey must include staking and labeling the WNA. Use a combination of stakes and flagging to ensure adequate visibility.
- K. Only those disturbances or uses specified in Section 4 herein shall be permitted in the WNA.

4.2 Permitted Waterway Natural Area Uses

- A. Minor landscaping is allowed within the WNA to repair erosion, damaged vegetation, or other problems identified. Landscaping or stabilization activities must have prior approval by the Engineering Department.
- B. Passive recreation uses are permitted in the Waterway Natural Area, including but not limited to walking or jogging trails constructed with permeable materials, so long as the trails are placed no closer than 15 feet from top of bank of the adjacent waterway.
- C. Individual trees within the WNA may be removed if they are in danger of falling, causing damage to dwellings or other structures, or causing blockage of the waterway.
- D. Invasive plant removal performed in accordance with the "Tennessee Urban Riparian Handbook."
- E. If the adjacent land use involves subsurface discharges or surface application from a wastewater treatment system that serves more than one (1) household or a non-residential use, effluent will not be allowed to discharge in the WNA except as provided herein. Where TDEC has granted a NPDES wastewater permit, the permittee is allowed to convey the effluent through the WNA to the waterway designated in the NPDES permit.
- F. Storm Water pipe discharges are allowed no closer than 15-feet from the waterway as measured perpendicular to the waterway from top of bank so long as the following are met:
 - I. The Owner/Operator must show that the storm water discharged within the WNA
 - a. shall achieve a post-construction removal rate of 80% for TSS (total suspended solids), and
 - b. will not cause erosion.
 - 2. Grading required to meet these discharge standards in Section 4.2.F.1. above may be allowed in the WNA within 15-feet of top of bank provided that
 - a. a valid State ARAP has been obtained, if required,
 - b. the County Engineer approves the grading plans,
 - c. written notification is given to the County Engineer upon completion, and
 - d. restoration shall be accomplished within fifteen (15) days of completion.
- G. Roadway and public utility crossings and the associated encroachments, as allowed by a Tennessee Department of Environment and Conservation (TDEC) ARAP, which are perpendicular to the channel, are permitted in the WNA. Roadway approaches and utility lines must not be less than 45 degrees perpendicular to the channel.
- H. Curtain drains discharging uncontaminated groundwater.
- I. Individual septic systems as approved by the Williamson County Department of Sewage Disposal Management.
- J. Fences.
- K. Docks located within a legally conforming pond, lake or reservoir.
- L. Horizontal Directional Drilling (HDD) utility lines so long as the entrance / exit is no closer than 30' from the top of the bank.

M. The following may be placed no closer than 30' from the top of bank:

- a. Private use access driveways and associated easements on un-platted residential parcels or large lot easement subdivisions;
- b. Walking trails constructed with non-permeable surface;
- c. Wells;
- d. Buried utility lines;
- e. Open Channel;
- f. Infiltration based Storm Water Control Measures (SCMs).

4.3 Stream Improvements or Restoration

- A. Stream improvements or restoration in the Waterway Natural Area are permitted if the following criteria are met:
 1. the restoration or improvement does not alter the location of the channel of the stream unless approved by TDEC and/or The Army Corps of Engineers;
 2. an ARAP from TDEC is obtained, if required; and
 3. the restoration or improvement includes the use of native vegetation, native grasses and/or canopy trees with the goal of achieving a forested canopy cover along the stream.

Section 5: **Storm Water System Long-Term Operation and Maintenance**

- A. The maintenance requirements for permanent storm water runoff control facilities shall be the responsibility of the owner/operator.
- B. For residential developments that form a homeowners association, trust indenture, or other management entity, that entity shall be responsible for long-term operation and maintenance of storm water infrastructure located in drainage easements or Open Space.
- C. A professional engineer shall provide a storm water infrastructure long-term operation and maintenance plan, which shall include an exhibit of all approved post-development storm water controls, and an opinion of probable costs and maintenance schedule, subject to approval by Williamson County. The long term operation and maintenance plan shall be in writing, shall be in recordable form, and shall, in addition to any other terms deemed necessary by the Williamson County, contain a provision permitting inspection at any reasonable time by Williamson County of the facilities deemed critical to the public welfare.
- D. Williamson County will have the authority, but not the duty, to maintain facilities not properly maintained and to recover costs associated with the maintenance from the owner/operator.
- E. Operation and maintenance plans for residential development shall be submitted and recorded with the final plat.
- F. Operation and maintenance plans for non-residential development shall be submitted and recorded prior to the issuance of a building permit.
- G. Upon approval of the storm water management facilities by Williamson County, the facility owner/operator(s) shall demonstrate the ability to garner and apply the financial resources necessary for long-term maintenance requirements. The funding mechanism shall be in a form approved by Williamson County. The County will only approve funding mechanism(s) for long-term maintenance responsibilities that can be demonstrated to be permanent or transferable to another entity with equivalent longevity.
- H. Long term Operation and Maintenance provisions of the storm water infrastructure shall be documented in the restrictive covenants.
- I. The owner/operator of the storm water management facilities shall be required to execute an Operation and Maintenance Agreement and record same along with the operations and maintenance plan with the Williamson County Register of Deeds.
- J. Upon release of any sureties posted by the developer of a non-residential or residential development for erosion control or storm water facilities, the developer shall be required to provide a certified copy of all applicable Operation and Maintenance Agreements and Plans to the Homeowners Association (HOA) of the development or any other entity responsible for the long term operation and maintenance of the storm water facilities, by certified, return-receipt mail. The developer shall provide proof to Williamson County that the agreements were provided to the HOA.
- K. After release of surety, or issuance of a certificate of occupancy, the owners or operators of storm water management facilities are required to conduct routine and

comprehensive inspections, as outlined in the O&M Agreement, in order to ensure that all storm water BMPs/SCMs are operating correctly and are properly maintained.

- a. Routine inspections should be conducted on an annual basis, at a minimum. These inspections should be conducted by a person familiar with control measures implemented at a site. Owners or operators shall maintain documentation of these inspections.
- b. Comprehensive inspections of all storm water management facilities and practices shall be conducted once every five years, at a minimum. Such inspections must be conducted by either a professional engineer, landscape architect or other qualified professional familiar with applicable SCM design and maintenance requirements, and they must certify that the facility is functioning as intended or shall provide a schedule of repairs and maintenance activities necessary to meet the intended use of the facility. Owners or operators shall submit inspection documentation to the Williamson County Engineering Department.

Section 6: Land Disturbance Permits

6.1 Applicability

- A. Every owner/operator will be required to obtain a Land Disturbance Permit from Williamson County in the following cases:
 - 1. Activities resulting in greater than one (1) acre of land disturbance;
 - 2. Activities that result in the disturbance of less than one (1) acre if it is part of a larger common plan of development or sale;
 - 3. Where land disturbance activities pose a threat to water, public health or safety.
- B. No building permit shall be issued until the applicant has obtained a Land Disturbance Permit where the same is required by these Regulations.
- C. A Land Disturbance Permit shall remain in effect for two (2) years. Upon expiration of the Land Disturbance Permit, the owner/operator shall submit plans for a new permit. If the plans have not been amended, there will be no fee for the renewal application.

6.2 Land Disturbance Permit Application

- A. Application for a Land Disturbance Permit for subdivisions and non-residential sites that require a “Tennessee General Permit for Storm Water Discharges Associated with Construction Activities” shall require the following submissions to Williamson County for review and approval:
 - 1. The Notice of Coverage (NOC) received from Tennessee Department of Environment and Conservation TDEC for coverage under the “Tennessee General Permit for Storm Water Discharges Associated with Construction Activities.”
 - 2. The Storm Water Pollution Prevention Plan prepared for coverage under the “Tennessee General Permit for Storm Water Discharges Associated with Construction Activities.”
 - 3. Site specific erosion control plan shall be prepared for purposes of the application for Land Disturbance Permit and sealed by a professional engineer, registered land surveyor, architect, landscape architect or certified professional in erosion and sediment control.
- B. Application for a Land Disturbance Permit for sites that do not require a “Tennessee General Permit for Storm Water Discharges Associated with Construction Activities” shall require the following be submitted to Williamson County for review and approval:
Site specific erosion control plan shall be prepared for purposes of the application for Land Disturbance Permit and sealed by a professional engineer, registered land surveyor, architect, landscape architect or certified professional in erosion and sediment control.

6.3 Fee Schedule

- A. Single Lot – A storm water review and inspection fee of \$150.00 per lot is payable at building permit application for residential lots which are part of a platted subdivision, or exceed one (1) acre of disturbed area.

- B. Subdivision – A storm water review and inspection fee of \$300.00 is required for all subdivisions payable at issuance of a Land Disturbance Permit.
- C. Non-Residential Site Plans – A storm water review and inspection fee of \$300.00 is required for all non-residential site plans.

Section 7: Inspections

Inspections shall be performed to ensure that vegetation, erosion and sediment control measures and other protective measures identified in the site plan are kept in good and effective operating condition.

7.1 Owner/Operator Inspections

- A. Inspections required by Tennessee Department of Environment and Conservation (TDEC).
- B. Williamson County may request submission of inspection documentation.
- C. Initial Storm Water Controls must be inspected and certified that the BMPs are in accordance with the approved plans by a professional engineer, registered land surveyor, architect, landscape architect, or certified professional in erosion and sediment control, on sites greater than one (1) acre or part of a larger development.
- D. Where structural BMPs are required, the controls and related swales must be installed prior to any other land disturbance activity within the associated drainage basin. Structural BMPs include practices like sediment ponds, sediment traps, etc., and the construction must be certified by a Professional Engineer or Landscape Architect.
- E. Post Construction BMPs/SCMs must be inspected and certified that the BMPs/SCMs are in accordance with the approved plans by a professional engineer, licensed in the State of Tennessee, prior to release of surety.
- F. Final storm water management BMPs/SCMs must be inspected and certified that the BMPs/SCMs are in accordance with the approved plans by a professional engineer, licensed in the State of Tennessee, prior to certificate of occupancy for non-residential site plans.
- G. Hard copy and digital as-built plans of storm water BMPs/SCMs, will be required in the State of Tennessee Plane coordinate system with the North American Datum 1983 (NAD83) and North American Vertical Datum (NAVD) of 1988.

7.2 County Inspections

- A. County inspections may include, but are not limited to, the following:
 - 1. An initial inspection prior to issuance of Land Disturbance Permit;
 - 2. A bury inspection prior to burial of any underground drainage structure;
 - 3. Erosion prevention and sediment control inspections as necessary to ensure effective control of erosion and sedimentation; and
 - 4. A final inspection when all work, including installation of storm management facilities, has been completed.
 - 5. Periodic inspections to ensure storm water facilities are being maintained.

Section 8: Violations and Enforcement

8.1 Violations.

A violation of these Regulations shall result from:

- A. an illicit discharge as defined in Section 2 herein, into any watercourse under County jurisdiction;
- B. an illicit discharge, as defined in Section 2 herein, from any site required to have a Land Disturbance Permit;
- C. failure to obtain a Land Disturbance Permit where required herein;
- D. development activities inconsistent with the approved plans or permits;
- E. failure to install or maintain erosion prevention and sediment controls consistent with the plan and performance requirements of these Regulations;

OR

- F. unapproved or unpermitted encroachment in the Waterway Natural Area (WNA).

8.2 Enforcement.

Williamson County shall have the authority to issue Notices of Violation and citations, to impose the civil penalties provided in this Section, and to institute appropriate actions or proceedings at law or equity for the enforcement of these Regulations.

8.3 Notification of Violation.

- A. Written Notice. Whenever the County Engineer, the Storm Water Quality Coordinator or his designee finds that any owner/operator or any other person discharging storm water has violated or is violating these Regulations or a permit or order issued hereunder, he may serve upon such person written Notice of the Violation (NOV). In addition to the NOV, whenever the County Engineer, the Storm Water Quality Coordinator or his designee finds that any permittee, person, company or facility owning, occupying or operating on any premises has violated or is violating these Regulations or a permit or order issued hereunder, he may revoke any permit issued by the County. Any permit mistakenly issued in violation of any applicable federal, state or local law or regulation may be revoked. Notice of such revocation shall be in accordance with the same notification requirements for NOVs.

Within a time limit established by this Notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted to Williamson County. Submission of this plan in no way relieves the discharger of liability for any violations occurring before or after receipt of the Notice of Violation.

- B. Consent Orders. The County Engineer or the Storm Water Quality Coordinator or his designee is empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with the person responsible for the noncompliance. Such orders will include specific action to be taken

by the person to correct the noncompliance within a time period also specified by the Consent Order.

C. Cease and Desist Orders. Cease and Desist Orders may be issued along with the NOV outlined above. When the County Engineer or Storm Water Quality Coordinator or his designee finds that any person has violated or continues to violate these Regulations or any permit or order issued hereunder, he may:

- I. In the case of a residential or non-residential development:
 - a. issue an order to cease and desist all such violations and direct those persons in noncompliance to:
 1. comply forthwith;
 2. take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation;
 3. halt all construction operations on development infrastructure within that Section of the development, except where necessary to take remedial or preventive action;
 - b. advise the Building Codes Director to withhold issuance of any new building permits within that section of the development until remedial or preventive action has been completed;
 - c. advise the Planning Director to withhold placing future submittals within the same development on the agenda of the Planning Commission until remedial or preventive action has been completed;
 - d. withhold issuance of any future land disturbance permits within the same development until a revised SWPPP has been submitted to the County Engineer; and
 - e. maintain the Cease and Desist Order until such time as the violations are remedied and any civil penalties, imposed in accordance with Section 9 of these Regulations, are paid or the obligation is removed through the appeals process by the Storm Water Appeals Board.
2. In the case of a permit holder for an individual residential lot:
 - a. issue an order to cease and desist all such violations and direct those persons in noncompliance to:
 1. comply forthwith;
 2. take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation;
 3. halt all grading and land disturbance activities on the lot until remedial or preventive action is taken;
 - b. advise the Building Codes Director to not conduct any future inspections and withhold issuance of any Certificates of Occupancy until remedial action has been completed; and
 - c. maintain the Cease and Desist Order until such time as the violation is remedied and any civil penalties, imposed in accordance with Section 9 of these regulations, are paid or the obligation is removed through the appeals process by the Storm Water Appeals Board.

8.4 Conflicting standards.

Whenever there is a conflict between any standard contained in these Regulations and in the Best Management Practices (BMP) manual adopted by Williamson County pursuant to these Regulations, the strictest standard shall prevail.

Section 9: Penalties

Any person who shall commit any act declared unlawful under these Regulations, who violates any provision of these Regulations, who violates the provisions of any permit issued pursuant to these Regulations, or who fails or refuses to comply with any lawful communication or notice to abate or take corrective action by the County Engineer or Storm Water Quality Coordinator or his designee, shall be guilty of a civil offense.

9.1 Penalties

Under the authority provided in Tennessee Code Annotated Section 68-221-1106, Williamson County declares that any person violating the provisions of these Regulations may be assessed a civil penalty by the County Engineer or Storm Water Quality Coordinator or his designee of not less than \$50.00 and not more than \$5,000.00 per day for each day of violation. Each day of violation shall constitute a separate violation. The penalties may be assessed beyond schedules applied in a Notice of Violation (NOV) or other schedules issued to the owner/operator or other person responsible for the violations defined in these Regulations.

9.2 Payment of Penalties

Civil penalties shall be paid within ten (10) days of receipt of the written notice of imposition of the penalties, unless an appeal of the penalty has been properly perfected in accordance with these Regulations. If the civil penalty is appealed to the Storm Water Appeals Board, the penalty shall be paid into escrow at the time of application. If the civil penalty is not paid within the deadlines established herein and if the applicant does not appeal the decision of the Storm Water Appeals Board, then Williamson County shall have the authority to either place a lien upon and against the property or seek execution of the penalty through a court of competent jurisdiction. If Williamson County places a lien upon the property and the lien is not removed within ninety (90) days, Williamson County is authorized to take all legal action necessary to enforce the lien as a judgment, including without limitation, enforcing the lien in an action brought in a court of competent jurisdiction. Williamson County shall be entitled to any costs and fees associated with enforcement of these Regulations, execution of a penalty or enforcement of any lien placed upon property in accordance with these Regulations.

9.3 Specific Penalties

The maximum civil penalties shall be determined by the County Engineer, Storm Water Quality Coordinator or his designee, based on the type of offense. This indicates the maximum that may be imposed for a first offense and does not reflect increases that may be imposed for repeat offenses.

- A. The following may be imposed upon single residential lot violations:
 - I. Failure to install or maintain erosion controls-\$250.00 per occurrence.
 - 2. Illicit Discharge - \$500.00 per occurrence.
 - 3. Failure to Obtain a Land Disturbance Permit - \$1,000.00 per occurrence.

- B. The following may be imposed upon residential development and non-residential development violations:
 - I. Failure to install or maintain erosion controls - \$500.00 per occurrence.
 - 2. Illicit Discharge - \$1,000.00 per occurrence.
 - 3. Failure to Obtain a Land Disturbance Permit - \$5,000.00 per occurrence.

4. Development inconsistent with permit - \$5,000.00 per occurrence.
- C. Where a Waterway Natural Area (WNA) is required on any plat, site plan or grading plan, any unapproved or unpermitted encroachment into a WNA may receive a penalty of \$2,000.00 for each occurrence.
- D. The penalty may be increased by twenty-five percent (25%) of the previous penalty amount for every subsequent but separate offense made by the same person, company or facility. The penalty shall be additional to other enforcement actions of this section.

9.4 Measuring civil penalties

In assessing a civil penalty, the County Engineer or Storm Water Quality Coordinator or his designee shall consider the following:

- A. The degree and extent of harm to the natural resources, to the public health or to the public or private property resulting from the violation;
- B. The duration and gravity of the violation;
- C. The effect on ground or surface water quality;
- D. The cost of rectifying the damage;
- E. Whether the civil penalty imposed will be a substantial economic deterrent to the illegal activity;
- F. The economic benefit gained by the violator as a result of noncompliance;
- G. Whether the violation was committee willfully or intentionally;
- H. The amount of effort put forth by the violator to remedy this violation;
- I. Any unusual or extraordinary enforcement costs incurred by the County;
- J. The cumulative effect of other enforcement actions applied for the same offense;
- K. The prior record of the violator in complying or failing to comply with these Regulations;
- L. The amount of penalty established by ordinance or resolution for specific violations; and
- M. Any equities of the situation which outweigh the benefit of imposing any penalty or damage assessment.

9.5 Recovery of Damages and Costs

Williamson County may recover damages and costs in addition to civil penalties.

- A. Williamson County may recover all damages proximately caused by the violator to Williamson County, which may include any reasonable expenses incurred in investigating violations of, and enforcing compliance with, these Regulations, or any other actual damages caused by the violation.
- B. Williamson County may recover the costs to Williamson County for maintenance of storm water facilities when the user of such facilities fails to maintain them as required by these Regulations.

- C. In the event that there are penalties assessed by the State against Williamson County caused by or as a result of the act or omission of any person, company or facility, or owner/operator, said actor shall be assessed the equivalent amount of such penalty. This shall include, but is not limited to, penalties for improper disposal or illegal dumping, or illicit connection into the municipal separate storm sewer system.
- D. If corrective action, including maintenance delinquency, is not taken in the time specified, or within a reasonable time if no time is specified, Williamson County may undertake the corrective action, and the cost of such corrective action shall be the responsibility of the person, company, facility, owner/operator and/or developer. The cost of abatement and restoration shall be borne by the owner of the property, with such costs invoiced to the owner of the property. If said invoice is not paid within 90 days of receipt of such invoice, Williamson County shall have the authority to place a lien upon and against the property. If the lien is not removed within 90 days, Williamson County is authorized to take all legal action necessary to enforce the lien as a judgment, including without limitation, enforcing the lien in an action brought in a court of competent jurisdiction. Williamson County shall be entitled to any costs and fees associated with enforcement of these Regulations or enforcement of any lien placed upon property in accordance with these Regulations.

9.6 Other Remedies

Williamson County may bring legal action to enjoin the continuing violation of these Regulations, and the existence of any other remedy, at law or equity, shall be no defense to any such actions.

9.7 Remedies Cumulative

The remedies set forth in this section shall be cumulative, not exclusive, and it shall not be a defense to any action, civil or criminal, that one (1) or more of the remedies set forth herein has been sought or granted.

9.8 Emergency Orders and Abatement

The County Engineer or Storm Water Quality Coordinator or his designee may order the abatement of any discharge from any source to the storm water conveyance system when, in the opinion of the County Engineer or Storm Water Quality Coordinator or his designee, the discharge causes or threatens to cause a condition which presents an imminent danger to the public health, safety or welfare, or the environment, or a violation of the NPDES permit. In emergency situations where the property owner or other responsible party is unavailable and time constraints are such that service of a notice and order to abate cannot be effected without presenting an immediate danger to the public health, safety or welfare, or the environment or a violation of the National Pollution Discharge Elimination System (NPDES) permit, the County may perform or cause to be performed such work as shall be necessary to abate said threat or danger. The costs of any such abatement shall be borne by the property owner and shall be collected in accordance with the provisions herein.

Section 10: Creation and Authority of Storm Water Appeals Board

10.1 Creation of Board

- A. Pursuant to Tennessee Code Annotated Section 68-221-1106, Williamson County hereby creates a board to hear and decide appeals of these Storm Water Regulations.
- B. Said board shall be called the “Storm Water Appeals Board”.
- C. The Storm Water Appeals Board shall consist of seven members, appointed by the County Mayor, subject to confirmation by the Board of County Commissioners. Each member must be a resident of Williamson County. There shall be one (1) member who is representative of the following groups:
 - 1. Member of the Board of County Commissioners
 - 2. Member of the Profession of Building Contractors
 - 3. Member of the Profession of Engineering
 - 4. Member of the Profession of Agriculture
 - 5. Member of the Residential/Commercial Development Community
 - 6. Current or former board member of a Home Owners Association
 - 7. Member of an Environmental Profession.
- D. Each member shall be appointed to a term of three years, with the first term of members one (1) – four (4) lasting two (2) years, and the first term of member five (5) – seven (7) lasting three (3) years. Thereafter the term of each member shall be three (3) years, except the Member of the Board of County Commissioners, whose term shall run concomitant with his/her elected term of office.
- E. The Storm Water Appeals Board shall meet as needed.
- F. Each member of the Storm Water Appeals Board shall be entitled \$75.00 per meeting attended.
- G. The Storm Water Appeals Board shall be empowered to adopt bylaws to govern the order of proceedings as well as a method for electing officers and keeping records.
- H. Each meeting of the Storm Water Appeals Board shall be memorialized in a set of minutes that will be kept by the County Engineer.
- I. The Storm Water Appeals Board is hereby authorized to hear and decide appeals of any order, decision or ruling of the County Engineer or Storm Water Quality Coordinator or his designee issued pursuant to these Regulations. The Storm Water Appeals Board is hereby authorized to consider any application for waiver from the requirements of these Regulations as provided herein. In no event shall the Storm Water Appeals Board issue a decision that in any way violates any other federal, state, or local laws.

10.2 Applications for Appeals

- A. Appeals to County Engineer. Upon issuance of a civil penalty, damage assessment or any other citation or Notice of Violation of these Regulations, it shall be conclusive and final unless the accused violator submits written notice of appeal to the County Engineer within ten (10) days of the notice being served. If the County Engineer does not issue a decision within ten (10) days of the receipt of the written notice of appeal, then the

violation is considered upheld. If the County Engineer does not reverse the decision, then any person aggrieved by the imposition of a civil penalty, damage assessment, any other citation or Notice of Violation of these Regulations or decision by the County Engineer, Storm Water Quality Coordinator or his designee as provided by these Regulations may appeal said penalty, damage assessment or decision to the Storm Water Appeals Board.

B. Application for Appeal to the Storm Water Appeals Board.

- I. The Board is hereby authorized to hear and decide applications for appeal of any order, decision or ruling of the County issued pursuant to these Regulations.
2. Application Requirements.
 - a. The appeal to the Storm Water Appeals Board shall be filed with the County Engineer within fifteen (15) days after the decision or ruling of the County Engineer is served in any manner authorized by law.
 - b. All applications shall be filed with the County Engineer's office on official forms. The deadline for filing a complete application is 4:30 p.m., twenty-eight (28) days prior to the scheduled meeting the following month.
 - c. At a minimum, a complete application shall include:
 1. the application form;
 2. the filing fee;
 3. information on the specific relief sought;
 4. plans, drawings, plats or surveys showing conditions of the site if the Regulations are applied as written; and
 5. separate plans, drawings, plats or surveys showing conditions of the site if the appeal is granted as requested.
 6. Additionally, the applicant may provide photographs, calculations or other information which must also be filed with the application in order for it to be considered by the Board.
 - d. For an appeal of a Notice of Violation or Cease and Desist Order where a civil penalty has also been imposed, in addition to the requirements of 10.2.B above, the applicant shall pay the full amount of the civil penalty to the County to be placed into an escrow fund pending the outcome of the appeal. If Board reduces or removes the civil penalty in accordance with its authority herein, then that portion of the civil penalty shall be returned to the applicant within 60 days following the final decision of the Board.
 - e. When applications are filed, they shall be examined by the County Engineer, Storm Water Quality Coordinator or his designee for completeness and accuracy to determine whether all of the information and data have been provided. Where information is lacking or inadequate, the applicant shall be notified as to the nature and extent of the deficiency, and the appeal shall be retained as an intent to file for 30 days, after which such appeal shall be considered abandoned by the applicant. Until deficiencies are remedied, the appeal shall be considered insufficient for review and action by the Board.

3. Upon receipt of an appeal, the Storm Water Appeals Board shall hold a public hearing at the next regularly scheduled meeting. Ten (10) days prior notice of the time, date, and location of said hearing shall be published in a newspaper of general circulation. Ten (10) days notice by United States mail shall also be provided to the appellant, such notice to be sent to the address provided by the appellant on the Application for Appeal.
4. Following the hearing on an application for appeal, the Board may defer, affirm, reverse, modify or remand for more information, the order, decision or ruling of the County Engineer or Storm Water Quality Coordinator or his designee. In no event shall the Board issue a decision that in any way violates any other federal, state or local laws. The decision of the Storm Water Appeals Board shall be final.

10.3 Application for Waiver

- A. The Board is hereby authorized to grant applications for a waiver of these Regulations provided the Board's action is consistent with the objectives and policies identified by these Regulations. The Board does not have the authority to permit actions by the applicant that are based on lack of proper planning or implementation of site development.
- B. Application Requirements.
 - I. The application for waiver to the Storm Water Appeals Board shall be filed with the County Engineer's office on official forms. The deadline for filing a complete application is 4:30 p.m., twenty-eight (28) days prior to the scheduled meeting the following month.
 2. At a minimum, a complete application shall include:
 - a. the application form;
 - b. the filing fee;
 - c. information on the specific relief sought;
 - d. plans, drawings, plats or surveys showing conditions of the site if the Regulations are applied as written; and
 - e. separate plans, drawings, plats or surveys showing conditions of the site if the Waiver is granted as requested.
 - f. Additionally, the applicant may provide photographs, calculations or other information which must also be filed with the application in order for it to be considered by the Board.
 3. When applications are filed, they shall be examined by the County Engineer, Storm Water Quality Coordinator or his designee for completeness and accuracy to determine whether all of the information and data have been provided. Where information is lacking or inadequate, the applicant shall be notified as to the nature and extent of the deficiency, and the application shall be retained as an intent to file for 30 days, after which such application shall be considered abandoned by the applicant. Until deficiencies are remedied, the application for waiver shall be considered insufficient for review and action by the Board.

4. Under no circumstances may a final or preliminary site plan containing proposed Waivers of these Regulations be submitted to the Williamson County Regional Planning Commission until the Storm Water Appeals Board has considered and acted upon the application for waiver.
- C. Upon receipt of a complete application for waiver by the required filing deadline, the Storm Water Appeals Board shall hold a public hearing at the next regularly scheduled meeting. Ten (10) days prior notice of the time, date, and location of said hearing shall be published in a newspaper of general circulation. Ten (10) days notice by United States mail shall also be provided to the appellant, such notice to be sent to the address provided by the appellant on the Application for Waiver.
- D. Applications for waivers shall be reviewed by the Board and may be granted or granted with conditions for those projects or activities where it can be demonstrated that strict compliance with these Regulations would result in practical difficulty. The Board must find that one (1) or more of the following criteria are satisfied:
 1. The plight of the landowner is due to the unique conditions of the property. A unique condition is a condition that is peculiar to the subject property that relates to a physical aspect of the subject property.
 2. Compliance with the strict letter of the restrictions governing physical requirements such as lot area, setbacks, and lot coverage unreasonably prevent the owner from using the property for a permitted purpose or would render conformity with such restrictions unnecessarily burdensome.
 3. The waiver would grant fairness to the applicant and in a manner that is consistent with the level enjoyed by others in the County.
 4. Those projects or activities serving a public need where no feasible alternative is available.
 5. The repair and maintenance of public improvements where avoidance and minimization of adverse impacts to wetlands and associated aquatic ecosystems have been addressed.
 6. The applicant has demonstrated that water quality will be improved as a result of the proposed modifications.
 7. Other considerations, such as:
 - a. the necessity of the facility to a waterfront location, in the case of a functionally dependent facility.
 - b. the relationship of the proposed use to the comprehensive plan and master drainage plans for that area.
 - c. the safety of access to the property in times of flood for ordinary and emergency vehicles.
 - d. the costs of providing governmental services during and after flood conditions including maintenance and repair

- public utilities and facilities such a sewer, gas, electrical, and water systems, and streets and bridges.
- e. whether issuance of a waiver is the minimum necessary so as not to destroy the character and design of an historic building or feature.
- E. The Board may defer, grant, grant with conditions or deny the application for waiver. The Board may require proof that the applicant has complied with the decision of the Board. The decisions of the Board are final.

10.4 Appealing decisions of the Storm Water Appeals Board

Any applicant may appeal a decision of the Storm Water Appeals Board pursuant to the provisions of Tennessee Code Annotated.

Section 11: Administration and Miscellaneous

- A. In order that storm water quality and quantity may be managed in accordance with these purposes and policies, these Regulations are hereby adopted.
- B. Should any article, section, subsection, clause or provision of this Storm Water Management Regulation be declared by a court of competent jurisdiction to be unconstitutional or invalid, such decision shall not affect the validity of the regulation as a whole or any part thereof other than the part declared to be unconstitutional or invalid, each article, section clause and provision being declared severable.
- C. In their interpretation and application, the provisions of these Regulations shall be held to be the minimum requirements for promotion of the public health, safety and general welfare.
- D. It is established that these Regulations are not intended to interfere with, abrogate or annul any regulations, statutes, or laws. In any case where these Regulations impose restrictions different from those imposed by any other provision of these regulations, or any other regulation, law or statutes, whichever provisions are more restrictive or impose higher standards shall control.
- E. For the purpose of these Regulations, certain numbers, abbreviations, terms, and words used herein shall be used, interpreted, and defined as set forth in Section 12.
- F. Where words within these Regulations have not been defined, the standard dictionary definition shall prevail.
- G. Unless the context clearly indicates to the contrary, words used in the present tense include the future tense; words in the plural include the singular; words used in the masculine include the feminine.
- H. The Williamson County Board of County Commissioners shall have the authority to enact amendments to these Regulations in accordance with the following procedure:
 - I. The Board of County Commissioners, the Storm Water Appeals Board, the County Engineer or the Storm Water Quality Coordinator may initiate and recommend amendments when necessary to maintain consistency with any state or federal permits or where the recommended amendment(s) are in the best interest of the County.
 - 2. Any proposed amendment must first be submitted for approval, disapproval or suggestion for changes to the Storm Water Appeals Board. The Storm Water Appeals Board shall conduct a public hearing before taking action on any proposed amendments with notice of said public hearing published in a newspaper of general circulation no later than fifteen (15) days prior to the public hearing. The notice of public hearing shall also be published on the County website as well as the content of the proposed amendment(s).
 - 3. The Board of County Commissioners shall conduct a public hearing on any resolution to adopt amendments to these Regulations prior to taking action on the proposed amendments. The Board may take action at the same meeting as the public hearing is conducted. Notice of said public hearing shall be published in a newspaper of general circulation no later than fifteen (15) days prior to the public hearing. The notice of public hearing shall also be published on the County website as well as the content of the proposed amendment(s).

4. The Board of County Commissioners shall adopt any amendment by a simple majority of the quorum and any such action should contain the effective date of the amendment(s). If no effective date is named in the Resolution of adoption, then the date upon which the Board takes action shall be deemed the effective date.

Section 12: Definitions and Abbreviations

12.1 Definitions

Agriculture - The definition of agriculture or agricultural as set forth herein shall be applicable to the term wherever it appears, unless a different definition is specifically made applicable to the Section, or Subsection in which the term appears.

- The land, buildings, and machinery used in the commercial production of farm products and/or nursery stock;
- The activity carried on in connection with the commercial production of farm products and/or nursery stock;
- Recreational and educational activities on land used for the commercial production of farm products and/or nursery stock; and
- Entertainment activities conducted in conjunction with, but secondary to, commercial production of farm products and/or nursery stock, when such activities occur on land used for the commercial production of farm products and/or nursery stock.
- As used in this definition of agriculture, the term "Farm Products" means forage and sod crops; grains and feed crops; dairy and dairy products; poultry and poultry products; livestock, including breeding and grazing; fruits; vegetables; flowers; seeds; grasses; forestry products; fish and other aquatic animals used for food; bees; equine; and all other plants and animals that produce food, feed, fiber, or fur; and
- As used in this definition of agriculture, the term "Nursery Stock" means all trees, shrubs, or other plants, or parts of such trees, shrubs or other plants, grown or kept for, or capable of, propagation, distribution or sale on a commercial basis.

Approval/Approved- Any reference to approval by the County Engineer, the Storm Water Quality Coordinator or his designee is acceptance of the document or information submitted for purposes of these Regulations alone and shall not be construed in any way as a guarantee, warranty or assurance that the plans, plats, maps, specifications, Best Management Practices (BMPs), Stormwater Control Measures (SCMs) or methodologies proposed will perform as indicated by the design professional or that a violation of these Regulations will not result therefrom.

As-Built Plans – means drawings depicting conditions as they were actually constructed.

Base Flood – The flood having a one percent chance of being equaled or exceeded in any given year. While this statistical event may occur more frequently, it may also be known as the “100-year flood event”.

Best Management Practice (BMP) – This may refer collectively or specifically to a structural or non-structural practice intended to address water quantity or quality as best available.

BMP Treatment Train – A technique for progressively selecting various storm water management practices to address water quality, by which groups of practices may be used to achieve a treatment goal while optimizing effectiveness, maintenance needs and space.

Bridge – A man made conveyance of storm water flows.

Building – A structure built, maintained, or intended for use for the shelter or enclosure of persons, animals, or property of any kind. The term is inclusive of any part thereof. Where independent units with separate entrances are divided by party walls, each unit is a building.

Channel – A natural or artificial watercourse of perceptible extent, with definite bed and banks to confine and conduct continuously or periodically flowing water. Channel flow is that water which is flowing within the limits of the defined channel.

Certified Professional in Erosion and Sediment Control - An individual successfully completing the training and / or testing to achieve certification as a Certified Professional in Erosion and Sediment Control from CPESC, Inc. (CPESC). The individual shall have been issued a CPESC Certification Number from CPESC, Inc. and shall maintain an active CPESC Certification. A CPESC-IT would not be considered qualified. The CPESC, Inc. certification program, founded by the Soil and Water Conservation Society and the International Erosion Control Association, in cooperation with the American Society of Agronomy, assists in providing the public with evidence of professional qualifications.

Clearing – To remove vegetation, trees, debris, or structures.

Color – Color as used herein means true color as well as apparent color. True color is the color of the water from which turbidity has been removed. Apparent color includes not only the color due to substances in solution (true color), but also that color due to suspended matter. Materials producing color resulting from other than natural causes shall not create an aesthetically undesirable condition. See also Water Color.

Contrast - Contrast is the diversity of adjacent elements in terms of color, texture or tone.

Culvert – An enclosed man made conveyance of storm water flows. This may include a pipe or other enclosed constructed conveyance.

Cross-drain – A culvert used to convey flow under a road or other obstruction between channels or surface flow.

Critical area – A site subject to erosion or sedimentation as a result of cutting, filling, grading, or other disturbance of the soil; a site difficult to stabilize due to exposed subsoil, steep slope, extent of exposure, and other conditions.

Critical service roads – Designated County evacuation routes, or other access to police, fire, emergency medical services, hospitals, or shelters.

Cut – Portion of land surface or area from which earth has been removed or will be removed by excavation; the depth below original ground surface to the excavated surface.

Design storm event – A hypothetical storm event, of a given frequency interval and duration, used in the analysis and design of a storm water facility.

Detention – The temporary delay of storm runoff prior to discharge into receiving waters. This includes facilities with a normal pool elevation.

Developer – Any individual, firm, corporation, association, partnership, or trust involved in commencing proceedings to effect development of land for himself or others. This includes any legal or engineering representative of the “developer”.

Development – Any man-made change to improved or unimproved real property, including but not limited to, buildings, mining, dredging, filling, grading, paving, excavating, drilling operations, or permanent storage of materials (as defined as materials of like nature stored in whole or in part for more than six months).

Discharge – To dispose, deposit, spill, pour, inject, seep, dump, leak or place by any means, or that which is disposed, deposited, spilled, poured, injected, seeped, dumped, leaked, or placed by any means including any direct or indirect entry of any solid or liquid matter into the municipal separate storm sewer system.

Drainage Basin – A part of the surface of the earth that is occupied by and provides surface water runoff into a storm water management system (MS4 or Waters of the State), which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Engineer – An engineer duly registered, licensed or otherwise authorized by the State of Tennessee to practice in the field of engineering.

Erosion Prevention and Sediment Control (EP&SC) – See “erosion prevention” and “sediment control”

Erosion – The removal of soil particles by the action of water, wind, ice or other geological agents, whether naturally occurring or acting in conjunction with or promoted by anthropogenic activities or effects.

Erosion prevention – practices implemented to prevent, through shielding, binding or other mechanism(s), the suspension of soil particles, often associated with erosion prevention and sedimentation control.

Excavation – See cut.

Exceptional Tennessee Waters – Surface waters of the State of Tennessee that satisfy the characteristics as listed in Rule 1200-4-3-.06 of the official compilation – rules and regulations of the State of Tennessee. Characteristics include waters within state or national parks, wildlife refuges, wilderness or natural areas; State or Federal Scenic Rivers; Federally-designated critical habitat; waters within an area designated as Lands Unsuitable for Mining; waters with naturally reproducing trout; waters with exceptional biological diversity; or other waters with outstanding ecological or recreational value as determined by TDEC.

Existing Grade – The slope or elevation of existing ground surface prior to cutting or filling.

Existing Construction – Any structure for which the "start of construction" commenced before the effective date of these Regulations.

Fill – Portion of land surface or area to which soil, rock, or other materials have been or will be added; height above original ground surface after the material has been or will be added.

Finished Grade – The final slope or elevation of the ground surface, after cutting or filling.

First Flush – The runoff that occurs at the beginning of a rain event.

Flood or Flooding – A general or temporary condition of partial or complete inundation of two (2) or more acres of normally dry land areas or of two (2) or more properties (at least one (1) of which is the policyholder's property from:

1. Overflow of inland or tidal waters; or
2. Unusual and rapid accumulation or runoff of surface waters from any source; or
3. Mudflow; OR

Collapse or subsidence of land along the shore of a lake or similar body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels that result in a flood as defined above.

Flood Elevation Study (replaced flood insurance study) – An examination, evaluation and determination of flood hazards and if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudslide (i.e., mudflow) and/or flood related erosion hazards.

Flood Insurance Rate Map (FIRM) – Official map of a community, on which the Federal Emergency Management Agency (FEMA) has delineated both the areas of special flood hazard and the risk premium zones applicable to the community.

Floodplain – Any land area susceptible to being inundated by flood waters from any source.

Floodproofing – Any combination of structural and nonstructural additions, changes, or adjustments to structures which reduce or eliminate risk of flood damages to real estate or improved real property, water and sanitation facilities, or structures with their contents.

Floodway – That portion of the stream channel and adjacent flood plain required for the passage or conveyance of a 100-year flood discharge. The floodway boundaries are placed to limit encroachment in the flood plain so that a 100-year flood discharge can be conveyed through the flood plain without materially increasing (less than one (1) foot) the water surface elevation at any point and without producing hazardous velocities or conditions. This is the area of significant depths and velocities and due consideration should be given to effects of fill, loss of cross sectional flow area, and resulting increased water surface elevations.

Floodway Fringe – That portion of the flood plain lying outside the floodway.

Floor - The top surface of an enclosed area in a building (including basement), i.e., top of slab in concrete slab construction or top of wood flooring in wood frame construction. The term does not include the floor of a garage used solely for parking vehicles.

Flow Attenuation – To lessen the volume, stage, discharge rate, or velocity of storm water runoff.

Grading – Any operation or occurrence by which the existing site elevations are changed; or where any ground cover, natural, or man- made, is removed; or any watercourse or body of water, either natural or man- made, is relocated on any site, thereby creating an unprotected area. This includes stripping, cutting, filling, stockpiling, or any combination thereof, and shall apply to the land in its cut or filled condition. Grading activities may only be performed with a Land Disturbance Permit.

Historic Structure Designation – Any structure that is: listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register; certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historical district or a district preliminarily determined by the Secretary to qualify as a registered historic district; or listed individually on a state or local inventory of historic places.

Hot Spot – An area where land use or activities generate highly contaminated runoff, with concentrations of pollutants in excess of those typically found in storm water. Examples might include operations producing concrete or asphalt, auto repair shops, auto supply shops, large commercial parking areas, and restaurants.

Illicit Connection – Any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

Illicit Discharge – Except for the lawful discharges into the MS4 listed in Section 2 herein, all storm water discharges to the MS4, that do not meet the requirements for Storm Water Quality in Section 2, that do not meet the requirements for Storm Water Quantity in Section 2, or that are the result of a failure of storm water runoff controls that were improperly designed, installed or maintained, as outlined and required in these Regulations, are illicit discharges.

Impaired Waters – Any segment of surface waters that has been identified by TDEC, division of Water Pollution Control, as failing to support classified uses. The division periodically compiles a list of such waters known as the 303(d) List.

Impervious Cover – A term applied to any ground or structural surface that water cannot penetrate or through which water penetrates with great difficulty.

Initial Stormwater Control Measures – Erosion / sediment controls such as sediment barriers, construction exit, sediment basins, diversion swales, etc., that must be placed on site prior to mass grading.

Integrated Pest Management (IPM) - An ecosystem-based strategy that focuses on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties.

Intermittent Stream Waterways – Natural or man-made watercourses (streams) which cease to flow for sustained periods during a normal rainfall year (typically during the later summer through the fall months).

Land disturbing activity – Any activity on property that results in a change in the existing soil cover (both vegetative and non-vegetative) and/or the existing soil topography. Land-disturbing activities include, but are not limited to, development, re-development, demolition, construction, reconstruction, clearing, grading, filling, and excavation.

Municipal Separate Storm Sewer System (MS4) – defined at 40 CFR §122.26(b)(8) as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under section 208 of the Clean Water Act (CWA) that discharges to waters of the state;

Designed or used for collecting or conveying storm water;

Which is not a combined sewer; and

Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR §122.2.

New Construction – Structures for which the "start of construction" commenced on or after the effective date of these Regulations. The term also includes any subsequent improvements to such structures.

Nonpoint Source – Any source of pollutant(s) that is not a point source. Examples are sheet flow from pastures and runoff from paved areas.

NPDES Permit – National Pollution Discharge Elimination System permit issued pursuant to 33 U.S.C. §1342.

One Hundred (100) -Year Flood – A flood that has an average frequency of occurrence of once in 100 years, determined from an analysis of floods on a particular watercourse and other watercourses in the same general region. Statistically, it has a one-percent (1%) chance of occurring in any given year. See "Base Flood".

Owner/Operator – Any and all persons, natural or artificial, including any individual, firm or association and any municipal or private corporation organized or existing under the laws of this or any other state or country that holds property or performs land disturbance activities.

Passive Recreation – non-consumptive uses such as wildlife observation, walking, biking, and canoeing.

Perennial Stream Waterways – Watercourses (streams) that generally flow year-round. However, they may go dry in drought years.

Permittee – Any person, firm, or any other legal entity to whom a site disturbance, grading, building or other related permit is issued in accordance with Williamson County regulations.

Point Source – Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

Post-construction – The stage of development where the surety for roads, drainage and erosion control has been released by Williamson County for residential developments or where a certificate of occupancy has been issued for non-residential developments.

Qualified Hydrologic Professional – An individual who has successfully completed the requirements established by the State of Tennessee to achieve certification as a Qualified Hydrologic Professional from TDEC and may classify a watercourse as either a stream or a wet weather conveyance.

Redevelopment – Development improvements that have a value less than 50% of the current assessed value and/or increases the floor area by less than 25%. Demolition and reconstruction is considered development and not redevelopment. Note: this is different from significant redevelopment.

Regional Storm Water Management Facility – A device or management practice, typically but not always a detention or retention pond, with a tributary area with more than one (1) development site. This may be multiple homogenous land use areas or an area of various land uses.

Regulatory Floodway – A “Regulatory Floodway” means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. Communities must regulate development in these floodways to ensure that there are no increases in upstream flood elevations. For streams and other watercourses where FEMA has provided Base Flood Elevations (BFEs), but no floodway has been designated, the community must review floodplain development on a case by case basis to ensure that increases in water surface elevations do not occur, or identify the need to adopt a floodway if adequate information is available

Retention – The prevention of storm runoff from direct discharge into receiving waters. Examples include systems which discharge through percolation, exfiltration, filtered bleed-down and evaporation processes.

Sediment – Solid material, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, or gravity as a product of erosion.

Sediment Control – Practices implemented to manage through filtering, settling or other mechanism(s) to remove suspended particles (soil, organic or mineral) from water, often associated with erosion prevention and sedimentation control.

Significant Redevelopment – Development improvements that have a value greater than 50% of the current assessed value, increases the floor area than 25% or more, any change in the impervious surface area, redirects the flow of storm water in any way, modifies the storm sewer system, or changes the storm water characteristics. Demolition and reconstruction is considered development and not redevelopment. Note: this is different from redevelopment.

Site – All contiguous land and bodies of water in one ownership, graded or proposed for grading or development as a unit, although not necessarily at one time.

Slope – Degree of deviation of a surface from the horizontal, usually expressed in percent or ratio.

Small Municipal Separate Storm Sewer System – Defined at 40 CFR §122.26(b)(16) and refers to all separate storm sewers that are owned or operated by the United States, a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or a designated and approved management agency under section 208 of the Clean Water Act (CWA) that discharges to waters of the state, but is not defined as “large” or “medium” municipal separate storm sewer system. This term includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings.

Stormwater Control Measures (SCM) – Permanent structural devices that are designed, constructed, and maintained to remove pollutants from stormwater runoff before the water reaches our streams and drinking water supply reservoirs.

Storm Water – Defined at 40 CFR §122.26(b) (13) as storm water runoff, snow melt runoff, and surface runoff and drainage.

Stripping – Any activity that removes or significantly disturbs the vegetative surface cover, including clearing and grubbing operations.

Structure – See Building.

Surveyor – A surveyor duly registered, licensed or otherwise authorized by the State of Tennessee to practice in the field of land surveying.

Tributary Area – The drainage area upstream of a specified point including all overland flow that directly or indirectly connects down-slope to the specified point.

Turbidity - The cloudy appearance of water caused by the presence of suspended colloidal matter. Turbidity is an optical property of the water based on the amount of light reflected by the suspended particles. The suspended particles interfere with the passage of light through the water or in which visual depth is restricted. Turbidity attributable to other than natural causes shall not reduce light transmission to the point that the biota is inhibited or that will cause an unaesthetic and substantial visible contrast with the natural appearance of the water. See Section 2 for the Turbidity Standard.

Water Color - Color of waters is a guide to their composition, and remote sensing of water color is used to infer water quality, particularly suspended solids, and phytoplankton concentrations. The color of water, with water considered a translucent (i.e. not transparent) material, is commonly associated with transmitted light. The color of natural waters as observed from above is associated with the upwelling light field that results from back scattering of sunlight illuminating the water volume. In this manner, the color of natural waters can be objectively specified using their spectral reflectance, where the reflectance is defined as the ratio of the upwelling light to incident (downwelling) light.

Watercourse under County Jurisdiction – MS4, storm water infrastructure associated with or integrated into a residential or nonresidential development, and any conveyance leading into or through a Waterway Natural Area.

Water Quality Treatment Volume (WQTV) – A portion of the runoff generated from impervious surfaces at a new development or redevelopment project by the design storm. (See Table 2.2-1)

Waters of the State – All water, public or private, on or beneath the surface of the ground, except those bodies of water retained within single ownership which do not join with natural surface or underground waters.

Waterway Natural Area – A strip of undisturbed native vegetation, either original or re-established, that borders streams and rivers, ponds and lakes, wetlands, and springs.

Wetland – Those areas that are inundated or saturated by surface or ground water at a frequency or duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typical to life in saturated soil conditions. Wetlands generally include, but are not limited to, swamps, marshes, bogs and similar areas.

Wet Weather Conveyance – Man-made or natural watercourses that flow only in direct response to precipitation runoff in their immediate locality, and whose channels are above the groundwater table, and which do not support fish and aquatic life.

12.2 Abbreviations

ARAP – Aquatic Resource Alteration Permit

BMP – Best Management Practice

CPESC – Certified Professional in Erosion and Sediment Control

CWA – Clean Water Act

EPSC – Erosion Prevention and Sediment Control

FIRM – Flood Insurance Rate Map

HDD – Horizontal Directional Drilling

HOA- Home Owner's Association

MS4 - Municipal Separate Storm Sewer System

MTD – Manufactured Treatment Device

NOC – Notice of Coverage

NOV – Notice of Violation

NPDES – National Pollution Discharge Elimination System

SCM – Stormwater Control Measure

SCS – Soil Conservation Service

SWPPP – Storm Water Pollution Prevention Plan

TDEC – Tennessee Department of Environment and Conservation

USGS – United States Geological Survey

WNA – Waterway Natural Area

Section 13: Performance Bonds

- A. Williamson County may, at its discretion, require the submittal of a performance security or performance bond prior to issuance of a permit in order to ensure that the storm water practices are installed by the permit holder as required by the approved storm water management plan in accordance with the Williamson County Zoning Ordinance and Subdivision Regulations.
- B. The Williamson County Regional Planning Commission will administer the guarantee of improvements. Applicable provisions of Section IV, "ASSURANCE FOR COMPLETION AND MAINTENANCE OF IMPROVEMENTS", of the Williamson County Subdivision Regulations, concerning the type of acceptable performance bonds and Williamson County Regional Planning Commission's rights under the required bonds are incorporated herein and are made part of these Regulations.