



Ulster County Stormwater Management Program Plan

December 2013



Michael P. Hein
County Executive

Table of Contents

Introduction and Acknowledgements	1
Public Contact Information	2
Background Information	4
Waterbodies of Concern	6
Pollutants of Concern (POCs)	8
Minimum Control Measures	
MCM 1: Public Education and Outreach on Stormwater Impacts	11
MCM 2: Public Involvement/Participation	13
MCM 3: Illicit Discharge Detection and Elimination (IDDE)	15
MCM 4: Construction Site Stormwater Runoff Control	17
MCM 5: Post-Construction Stormwater Management	19
MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations	21
Minimum Control Measure Implementation Framework	
MCM 1: Public Education and Outreach on Stormwater Impacts	23
MCM 2: Public Involvement/Participation	25
MCM 3: Illicit Discharge Detection and Elimination (IDDE)	27
MCM 4: Construction Site Stormwater Runoff Control	29
MCM 5: Post-Construction Stormwater Management	30
MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations	31
Appendices	
Appendix A: SPDES General Permit for Stormwater Discharges from MS4s (excerpt).....	A-2
Appendix B1: IDDE Local Law No.18 of 2007.....	B-2
Appendix B2: IDDE Procedure.....	B-32
Appendix B3: IDDE Form	B-34
Appendix C1: Planning Board Land Use Referral Guide.....	C-2
Appendix C2: Ulster County Construction Projects Statement of Policy	C-22
Appendix C3: Ulster County Development Review— Construction and Post- Construction Policy	C-26
Appendix D1: Local Law No. 4 of 2009 (non-toxic landscape maintenance)	D-2
Appendix D2: Resolution No. 282 of 2010 (green cleaning products)	D-9
Appendix D3: Resolution No. 283 of 2010 (low- or no- VOC paints)	D-13
Appendix D4: Resolution No. 74 Of 2011 (prohibiting leasing of County property for Hydraulic Fracturing)	D-16
Appendix D5: Local Law No. 6 of 2012 (Hydraulic Fracturing Brine Prohibition Act)	D-19
Appendix E1: List of Commonly Used Abbreviations	E-2
Appendix E2: General Definitions	E-3

Ulster County Stormwater Management Program (SWMP)

Introduction and Acknowledgements

Stormwater Management Program and Stormwater Management Program Plan

The purpose of this document, the Ulster County Stormwater Management Plan, is to describe Ulster County's Stormwater Management Program (SWMP), the specific practices and policies that the County undertakes to reduce the discharge of pollutants into waterbodies and meet the requirements of the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).

As a regulated Traditional Non-land Use Control MS4 Operator, Ulster County is required to develop, implement, and revise as needed a Stormwater Management Program (SWMP) that satisfies the requirements for each of six required program components, known as minimum control measures (MCMs). A Traditional Non-land Use Control MS4 refers to a municipal entity without land use control (usually a county). The MS4 Operator must identify Pollutants of Concern (POCs), waterbodies of concern, and specific practices that reduce pollutants in stormwater to the maximum extent practicable (MEP). Measurable goals have to be established and management practices have to be implemented to achieve those goals for each of the MCMs.

MS4 Minimum Control Measures (MCMs)

1. **Public Education and Outreach on Stormwater Impacts**
2. **Public Involvement/Participation**
3. **Illicit Discharge Detection and Elimination (IDDE)**
4. **Construction Site Stormwater Runoff Control**
5. **Post-Construction Stormwater Management**
6. **Pollution Prevention/Good Housekeeping for Municipal Operations**

This plan describes the goals established under each MCM and the activities that Ulster County engages in to meet these goals. There is an Implementation Framework included for each MCM that lists the specific activity, the measurable parameter for that activity, who is responsible for ensuring compliance, and who will be involved in the activity. Also included in the SWMP Plan are supporting documents, charts, maps, tables, and descriptions of abbreviations and terms used throughout the document.

Ulster County Departments of the Environment (DoEnv), Public Works (DPW), Information Services (IS), Health, and Planning work together to implement the Stormwater Management Program (SWMP). This document provides specific details of the efforts that Ulster County undertakes to ensure that pollution from stormwater runoff to our surface waterbodies is reduced or eliminated "to the maximum extent practicable."

We would like to acknowledge the great contributions made by our partner agencies Ulster County Soil and Water Conservation District (UCSWCD), Cornell Cooperative Extension-Ulster County (CCE-UC), and Ulster County Resource Recovery Agency (UCRRA) in helping us to achieve our goals.

Ulster County Stormwater Management Program

The SWMP is an evolving program. We encourage your comments and especially your suggestions on ways that we can improve the Ulster County Stormwater Program.

Public Contact Information

The public contact for general information on Ulster County Stormwater Management Program:

Department of the Environment
17 Pearl Street
PO Box 1800
Kingston, NY 12402
(845) 338-7287

The public contact for SWPPP reviews and enforcement actions:

Stormwater Management Specialist
Ulster County DPW
317 Shamrock Lane
Kingston, NY 12401
(845) 340-3123

The dedicated stormwater hotline to report suspected illicit discharges and other stormwater violations and concerns:
(845) 334-8510

Or for any concerns or comments, including comments on this SWMP Plan and the MS4 Annual report you can email: stormwater@co.ulster.ny.us

The Ulster County Stormwater webpage is at: <http://ulstercountyny.gov/public-works/stormwater-management>.

Record Keeping

All records (except for SWPPPs, SWPPP reviews, IDDE inspections, and post construction practices inspections) are kept and can be reviewed at:

Ulster County Department of the Environment
17 Pearl Street
Kingston, NY 12401
(845) 338-7287

Ulster County Stormwater Management Program

Stormwater Pollution Prevention Plans (SWPPPs), and SWPPP reviews, can be reviewed at:
Ulster County Department of Planning
244 Fair Street
Kingston, NY 12402
(845) 340-3340

IDDE inspections, construction and post construction practices inspection reports can be reviewed at:
Ulster County Department of Public Works
317 Shamrock Lane
Kingston, NY 12401
(845) 340-3123

Records on chemical inventories from all County facilities are kept at:
Ulster County Safety Office
UC Law Enforcement Center
(2nd Floor)
380 Boulevard
Kingston, NY 12401
845-340-3410

Under the auspices of the County Executive,
Ulster County MS4 Program Coordination-
Organization Chart (October 2009)

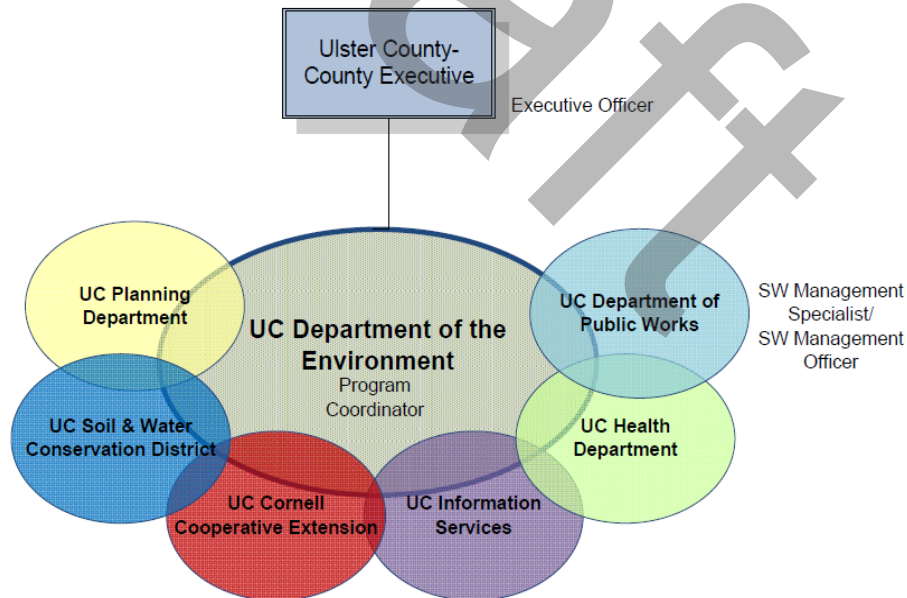


Figure 1- Organization Chart

Ulster County Stormwater Management Program

Background Information

The Clean Water Act (CWA) was developed in 1972 as sweeping amendments to the Federal Water Pollution Control Act of 1948, the first major law to address water pollution. The US Environmental Protection Agency (EPA) developed Phase I of the National Pollutant Discharge Elimination System (NPDES) Stormwater Program in 1990, in response to the 1987 amendments to the CWA.

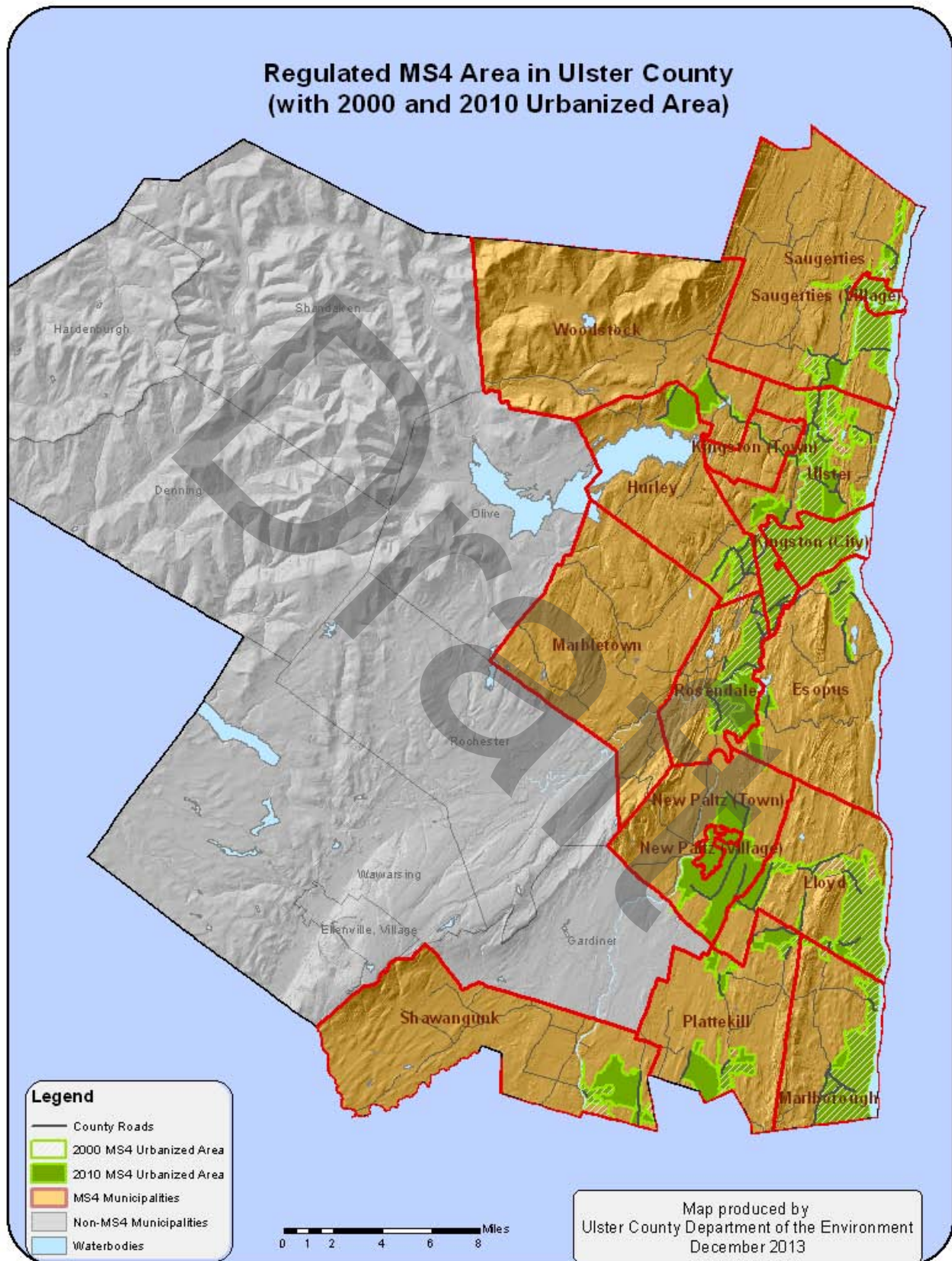
In New York State, the Department of Environmental Conservation (DEC) is responsible for administering the program under the State Pollutant Discharge Elimination System (SPDES) permit program. Phase I required SPDES permit coverage for stormwater discharges from medium and large Municipal Separate Storm Sewer Systems (MS4s), construction activities that disturbed five or more acres of land, and eleven categories of industrial activity.

In 2003, Phase II expanded the SPDES stormwater permit program to include stormwater discharges from certain regulated small MS4s and construction activities that disturb one or more acre of land. The SPDES MS4 permit required regulated MS4s to develop and fully implement a stormwater management program by 2008. The MS4s under Phase II were required to provide an initial outline of planned management practices and to identify measurable goals that could be used to assess progress towards full implementation of an appropriate stormwater management program. The DEC specified a few required actions and provided a list of approved practices, but the individual MS4s were encouraged to tailor development of their Stormwater Management Programs to best address local stormwater concerns.

Municipal areas that meet certain population density criteria, based on the US Census, are required to gain coverage for the discharge of stormwater by the DEC under Phase II of the SPDES General Permit for Stormwater Discharges from MS4s. The original Phase II MS4 regulated area, based on the Urbanized Area from the 2000 Census, included part of Ulster County and parts of the Towns of Esopus, Hurley, Kingston, Lloyd, Marbletown, Marlborough, Plattekill, Rosendale, Saugerties, Shawangunk, Ulster, the Village of Saugerties, and the City of Kingston. The 2010 census Urbanized Area expanded to include parts of the Towns of New Paltz, Woodstock, and the Village of New Paltz.

Ulster County Stormwater Management Program

Figure 2- Ulster County MS4 Area



Ulster County Stormwater Management Program

Waterbodies of Concern

In Ulster County we are fortunate to have an abundance of water resources. From the Hudson River to our mountain streams, lakes, ponds, reservoirs, wetlands and breathtaking waterfalls, we can enjoy our water resources for fishing, swimming, boating, and generally enhancing our lives. These waters are also used to provide drinking water to a large segment of our population as well as to millions of downstate residents. Our wetlands and waterways provide habitat and nourishment for a variety of animal and plant species.

Ulster County contains many important waterbodies. The County borders the Hudson River which runs 315 miles from Lake Tear of the Clouds in the Adirondacks to Upper New York Bay in New York City. Much of the County's MS4 regulated urbanized area is located along the Hudson River corridor. The Hudson River is used for commerce, transportation, recreational activities (including fishing, boating and swimming), and also serves as a source of drinking water. The Hudson River, the Esopus Creek, and the Wallkill River are included in the NY Department of State's Coastal and Inland Waterways program which was established to ensure the protection and best use of coastal and inland water resources and promote the revitalization of waterfront communities.

The Rondout Creek, starting in the Catskill Mountains and flowing into the Rondout Reservoir then winding its way through several Ulster County towns before ending up at the Hudson River at Kingston, is also a significant waterbody: providing for drinking water, recreational activities, and beautiful vistas.

In addition to the Ashokan and Rondout Reservoirs that are part of the New York City water supply, the County contains several other reservoirs that provide drinking water to our population. Most notable among these are Cooper Lake in Woodstock, which provides water to Kingston, and the Blue Mountain Reservoir supplying the Village and part of the Town of Saugerties with water.

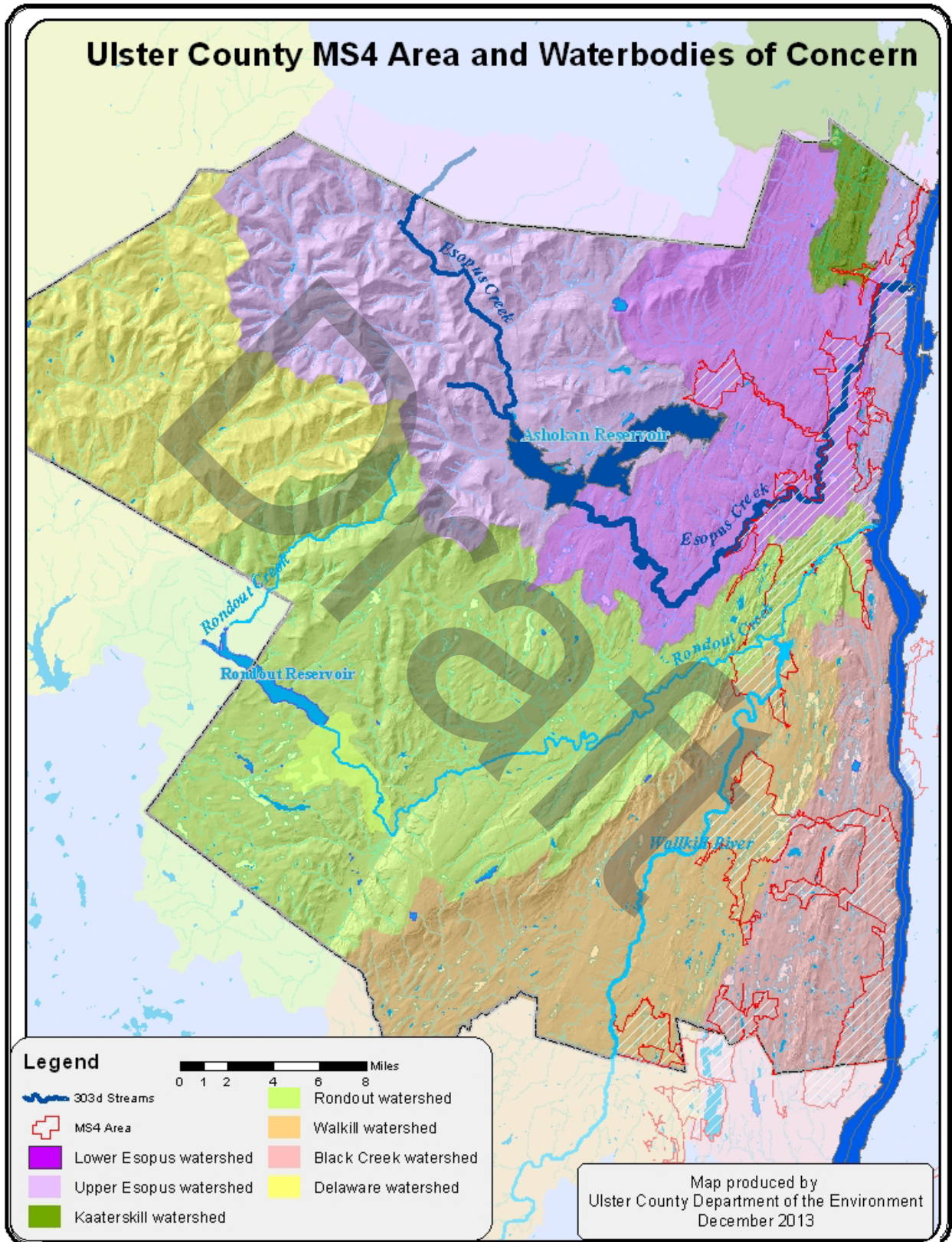
Ulster County contains several renowned trout fishing streams and lakes, most notably in the Catskills, but some are in the urbanized regulated MS4 area including parts of the Esopus, Sawkill, Plattekill, Black, and Lattintown Creeks.

Ulster County also contains many wetlands, providing essential habitat for many species of fish, birds, mammals, amphibians, reptiles, insects, and plants. Wetlands act as: flood control by holding water and slowing it down, clean water by allowing silt and sediment to settle out of the slow moving water, and absorb nutrients and chemicals that can otherwise pollute rivers and ponds downstream. Wetlands also provide for recreational activities by providing fishing, canoeing, and birdwatching opportunities.

All waterbodies have a designated use: a goal for water quality that is attainable for that waterbody. Designated uses include drinking water supply, swimming, boating, fishing, and/or aquatic life support. Waters that do not meet their designated use are considered impaired. Ulster County contains three interconnected waterbodies that are listed by the NYSDEC on the Section 303(d) list as impaired. They are the Upper Esopus Creek, the Ashokan Reservoir (both listed for silt/sediment), and the Lower Esopus Creek (listed for turbidity). Of these, only the Lower Esopus is in the regulated MS4 area. The Upper Esopus and the Ashokan Reservoir are in the NYC watershed, outside of the regulated MS4 area. The County also contains some lakes and streams that are impaired for mercury and for low pH due to atmospheric deposition (acid rain). Part of the Hudson River is impaired from PCB contaminated sediment.

Ulster County Stormwater Management Program

Figure 3- Waterbodies of Concern



Ulster County Stormwater Management Program

Pollutants of Concern (POCs)

The SPDES MS4 permit requires that municipalities identify pollutants of concern (POCs) in the regulated MS4 area. POCs are pollutants that have the potential to produce the greatest impact on our waterbodies, keeping them from meeting their designated use.

Silt/Sediment

One of the most common POCs to our waterbodies is sediment: the loose soil that can be carried by stormwater to a waterbody. Nutrients and other chemical pollutants can adhere to the sediment and get carried along with it into nearby waters. Suspended sediment can cause turbidity, limiting the amount of light that reaches the depths and inhibiting the growth of aquatic plants that other species depend on. Sediment can also settle and smother aquatic habitats that fish rely on for depositing eggs. Anytime soil is exposed to stormwater, erosion can occur, creating sediment.

In Ulster County, sediment is generated from a variety of sources. It can come from the soil erosion that occurs when bare soil on construction sites is exposed to stormwater or from the natural erosion of stream banks. Sediment is present in runoff from urban areas and agricultural lands, as well as from natural areas.

Ulster County has policies in place to control sediment runoff from construction sites. These are further described in MCMs 4&5. Ulster County Soil and Water Conservation District (UC SWCD) works with local farmers to develop plans to reduce erosion and control other pollutants on agricultural sites.

The three interconnected waterbodies listed as impaired on the DEC 303(d) list are all impaired due to silt/sediment or turbidity. The Upper Esopus Creek has high levels of sediment due to the highly erodible clay soils in the Upper Esopus watershed. The Upper Esopus carries these sediments as it flows directly into the Ashokan Reservoir. Water then flows from the reservoir through the spillway or is released through the waste channel into the Lower Esopus Creek, contributing to the turbidity impairment of this waterbody.

The NYC DEP and the NYS DEC, with very strong input from Ulster County and other concerned entities, are engaged in developing a protocol to mitigate the negative impacts that these releases have had on the Lower Esopus Creek and its communities, while preserving the water quality of the drinking water that flows from the Ashokan Reservoir to quench the thirst of downstate residents.

Ulster County is working with UC SWCD and Cornell Cooperative Extension (CCE-UC) through the Ashokan Watershed Stream Management Program on streambank restoration projects to reduce the erosion of the stream banks and streambeds along the Upper Esopus Creek, thereby reducing the sediment that is carried and deposited downstream.

Ulster County Stormwater Management Program

Many of the POCs to Ulster County can be generated from the activities associated with maintaining County owned highways, buildings and lands. The County uses salt on our roadways in the winter and paves with oils and asphalt products in the summer. The County cleans and paints buildings, and mows and maintains its properties in the spring, summer, and fall. All of these activities have potential to release pollutants into the stormwater system.

Salt

Road salt is used as a deicer on County roads and parking lots. Salt can be toxic to freshwater organisms as stormwater from rain and snow melt washes the roads and carries any pollutants with it to waterbodies. Road salt can destroy protective roadside vegetation, degrade soil, and corrode vehicles, bridges, and other infrastructure. The County will continue to look for alternatives to salt that are economically feasible and minimize the application of salt to produce less concentrated runoff without compromising public safety. Until safe, effective substitutes are found, following best management practices (BMPs) and recommendations can help in effective and efficient use of deicing materials while reducing the impact and preserving the quality of our streams and lakes. Some of the BMPs for proper salt storage and application are addressed in MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations.

Heavy Metals and Hydrocarbons


Other POCs that can occur with County maintenance operations are heavy metals (such as lead, zinc, and mercury) found in many products (such as batteries, fuels, paints, pesticides, and cleaners) and hydrocarbons (from oils, grease, fuels, hydraulic fluids, pesticides, and engine emissions). As these products are used, spilled, or breakdown, they can leave behind pollutants that can be carried by stormwater into waterbodies. Metals are toxic to aquatic organisms and tend to bioaccumulate, meaning that they increase in concentration in an organism with continued exposure over time. Metals and other chemicals are often the cause of fish advisories—health warnings about eating certain fish. And they have the potential to contaminate drinking water supplies. Some of the maintenance practices that help control these pollutants are covered in MCM 6. Illicit discharges and dumping of petroleum products are addressed in MCM 3: Illicit Discharge Detection and Elimination (IDDE).

Nutrients and Pathogens

Nutrients, such as nitrogen, phosphorous, potassium, and ammonia, can be found in fertilizers, livestock and pet waste, decaying vegetation (such as grasses and leaves), as well as sewer and septic system overflows and leaks. These wastes can also leave pathogens (harmful bacteria and viruses) in our waters. Nutrients can lead to an excess growth of weeds and algae whose decay can lead to a depletion of oxygen in waterbodies. Fish and other aquatic organisms cannot exist in water with low levels of dissolved oxygen. MCM 3: IDDE covers some efforts to trackdown and eliminate nutrients and pathogens generated from septic system and sanitary waste leakage and cross connections.

Ulster County Stormwater Management Program

Figure 4- Common Pollutants in Stormwater Runoff

Pollutants in stormwater runoff (from LakeSuperiorStreams.org)	
POLLUTANT	WHAT DOES IT DO?
<p>Increased Runoff Land alterations increases the rate and amount of runoff from the watershed entering the stream.</p> 	<p>Carries pollutants, erodes stream channel and banks, and destroys instream habitat</p>
<p>Sediment Dirt and sand on roads, driveways, and parking lots or eroded sediment from disturbed surfaces (e.g. construction sites) enters stream with stormwater runoff; increased flow causes stream bank erosion</p> 	<p>Smothers aquatic habitat, depletes oxygen, reduces water clarity, and carries nutrients and toxic contaminants</p>
<p>Nutrients Excess fertilizers on lawns or fields, failing septic systems, and animal waste</p> 	<p>Stimulates excessive plant growth, lowers dissolved oxygen levels, degrades aesthetics and destroys native aquatic life</p>
<p>Temperature Warmer water caused by runoff from impervious surfaces, removal of streamside vegetation, and reduction in groundwater flows</p> 	<p>Harmful to trout and other cold water species, promotes spread of invasive species and excessive plant growth, reduces dissolved oxygen levels in water</p>
<p>Bacteria Potentially pathogenic microscopic organisms in failing septic systems, sewer overflows, and animal (including pet) waste</p> 	<p>Harmful to humans; untreated waste can cause numerous diseases.</p>
<p>Toxic Contaminants/Heavy Metals Heavy metals such as Mercury, cleaning compounds, pesticides and herbicides, industrial by-products such as dioxin, and vehicle leakage of oil, gas, etc.</p> 	<p>Harmful to humans and aquatic life at fairly low levels; many resist breakdown and some accumulate in fish and other animal tissues (including human), and can lead to mutations, disease, or cancer</p>

Ulster County Stormwater Management Program

MCM 1: Public Education and Outreach on Stormwater Impacts

Under the SPDES MS4 regulations, Ulster County is considered a “Traditional Non-land Use Control MS4” (a municipal entity that does not have jurisdiction over land use issues—e.g., zoning and building permit issuance). As such, our public includes our staff, contractors, and visitors. The County’s education efforts focus on internal staff development and educating the visitors to our County facilities on pollution prevention. The County is also very committed to providing technical, mapping, and GIS support to all of the municipal MS4 communities within Ulster County.

Key Goals

The goal for MCM 1 is to ensure that our employees, contractor’s, and visitors to our facilities are aware of the most prevalent pollutants and how our daily work activities can have an impact on reducing the pollutants that enter our waterbodies. To reach this goal, the County engages in a variety of educational activities.

Activities/Practices

The County provides brochures on a variety of stormwater topics for the general public at the County Office Building (COB) lobby as well as at the annual Ulster County Fair. Brochure topics include proper lawn care, pet waste management, household hazardous waste disposal, low impact development, waste oil disposal, water conservation, vehicle washing, fish advisories, values of wetlands and riparian buffers, permit requirements for construction sites, and other areas of stormwater pollution impact.

All Ulster County Department of Public Works (DPW) and other relevant staff are trained every three years on MS4 SPDES permit information, IDDE, pollution prevention practices for municipal operations, construction site stormwater pollution prevention, and green infrastructure practices.

Ulster County provides workshops each year on various topics of interest to other MS4 municipal stormwater officers, building inspectors, and planning board members. Some past topics have included: MS4 Permit Updates from the DEC, MS4 Audit Process and Results, MS4–Compliance Doesn’t Have to be Difficult, Construction Site Inspections for Code Enforcement Officers, Green Infrastructure Jobs and Practices, and Stormwater Management Program Plans–Basic Elements and Tips
Revised December 2013

Figure 5-UC Dept of Environment Webpage



Ulster County
Ulster County makes it happen...
www.ulstercountyny.gov

Environment

Stormwater and Pollution Prevention

Pollution from stormwater run-off, also known as non-point source pollution - can negatively impact water quality and ecosystem health and has the potential to increase flood flows and infrastructure damage during precipitation events. The County, like many others in New York, is required to implement the NYSDEC's MS4 Stormwater program. The Department helps to coordinate this program and aims to do so in a way that not only ensures the County's regulatory compliance but also provides technical support to other regulated municipalities in the County. Successful implementation of this program helps to protect our valuable water resources and help to prevent flood damage.

Ulster County Stormwater Management Program

[click link above for more information](#)

The Ulster County - MS4 Annual Report is available for review

[click link above for more information](#)



Ulster County Stormwater Hotline: (845) 334-8510
or email to stormwater@co.ulster.ny.us - If you wish to report pollution discharges such as: intentional dumping of trash, yard waste, used motor oil, paint, or other pollutants into a storm drain, ditch, pond, lake, or stream; sanitary sewer overflows; discharges of sediments from construction sites into storm drains or tracked onto public roadways; suspected illegal dumping sites.

[DRAFT - 2013 MS4 Annual Report](#)
[DRAFT - 2013 MS4 Annual Report Summary](#)
[NYS DEC Stormwater Program](#)
[US EPA Stormwater Program](#)
[Properties Owned or Leased by Ulster County](#)

17 Pearl Street Rain Garden

[17 Pearl Street Rain Garden Informational Brochure](#)
[Daily Freeman Story on Ulster County Rain Garden from 12/19/11 \(with video\)](#)
[Introduction to Rain Gardens Brochure](#)
[Recommended Plant List for Rain Gardens](#)

Ulster County Stormwater Management Program

from the Field. In addition, the County and Ulster County Soil and Water Conservation District co-sponsor the NYS DEC endorsed: 4-hour Contractors Training in Erosion and Sediment control every three years to enable local contractors to maintain their certification.

The County also offers a lending library of training videos and materials in support of municipal employee training, as well as providing training directly to municipal staff involved with maintenance of roads, buildings, parks, or water departments as requested by municipalities.

The County also provides technical assistance and GPS/GIS mapping support to MS4 communities to assist them in meeting their permit obligations.

Ulster County maintains a webpage at <http://ulstercountyny.gov/environment/stormwater-and-pollution-prevention> within the Department of the Environment site that contains a variety of stormwater pollution prevention information as well as our Stormwater Management webpage at <http://ulstercountyny.gov/public-works/stormwater-management> that contains additional information and links to additional websites.

Further Course of Action

- Continue to educate our public, our employees, contractors and municipalities on the impact that all of us can have to decrease the harmful pollutants stormwater carries to our waterways.
- Develop a brochure to educate restaurant professionals on practices that they can implement to reduce stormwater pollution.
- Continue to examine more effective ways to educate the public on stormwater pollution.

Ulster County Stormwater Management Program

MCM 2: Public Involvement/Participation

As previously discussed in MCM 1, the County as a traditional non-land use control MS4 is not required to provide participation opportunities to the general public. The County is, however, required to provide opportunities for public participation and involvement to our public (County employees, visitors, municipal partners, and watershed groups). Additionally, County agencies have continued to involve the general public and reduce potential pollutants through various efforts. These efforts not only strengthen the County's stormwater program but help the local MS4 municipalities, which do have an explicit requirement to involve and educate the general public.

Key Goals

The goal for MCM 2 is to involve more people in learning about and taking stewardship of the environment. With our partner agencies, we will continue to expand and increase the public participation in the programs that are described below.

Activities/Practices

The County works closely with the Ulster County Environmental Management Council (EMC), which consists of representatives from municipal conservation and environmental councils. With the EMC, the County sponsors an annual Creek Week, a variety of events intended to help build awareness and encourage the enjoyment of water and watersheds in Ulster County. Creek Week events include kayak paddles, films on water and watershed topics, stream monitoring, creek assessment walks, hikes along streams, river seining, lectures, fishing and many other activities. Many events are free and all are open to the public.

Ulster County maintains a Stormwater Management Program webpage, <http://ulstercountyny.gov/public-works/stormwater-management>, with a direct link to our dedicated stormwater email and the phone number for our dedicated Stormwater hotline, as well as providing additional contact information. This webpage also serves as a public link to the Stormwater draft annual report and summary. There are additional Ulster County stormwater document links on this webpage and links to other stormwater resources. Ulster County also maintains the Ulster County Web Mapper, <http://gis.co.ulster.ny.us/>, which includes stormwater resource layers. The County publishes a public notice in two local papers on the availability of our draft annual report, and emails



Volunteers maintaining trails at Sojourner Truth Ulster Landing County Park



River Seining in the Hudson

Ulster County Stormwater Management Program

are sent to the municipal MS4 contacts directly to notify them of the availability of the draft annual report. The draft report is also presented at a meeting of the EMC.

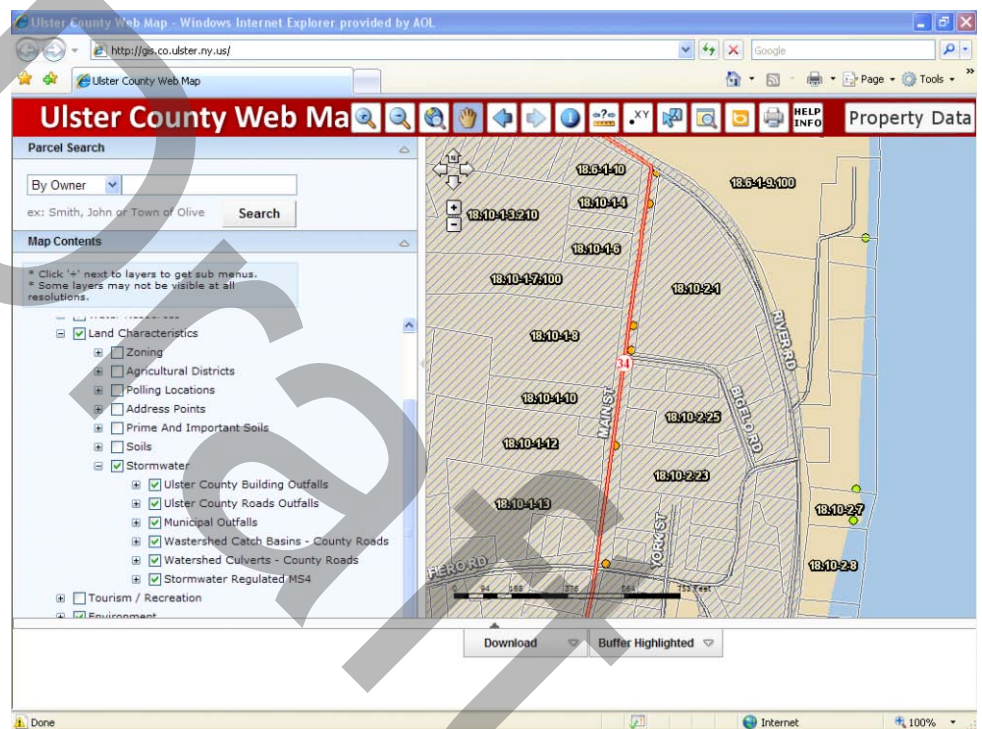
The County promotes employee recycling through posters, emails and desk side recycling trays. The Ulster County Resource Recovery Agency conducts at least two household hazardous waste/pharmaceutical/e-waste collection days annually. These events are open to Ulster County residents and registration is strongly encouraged, providing further opportunities for public outreach and education.

Ulster County Department of the Environment also supports local watershed groups, providing them with technical and mapping assistance, management plan reviews, and lending out water examination and testing equipment.

Figure 6-Ulster County Web Mapper screen shot

Further Course of Action

- Share this SWMP plan and incorporate comments or suggestions from the public into the next revision.
- Update this document as necessary to reflect the changes in the Stormwater Management Program, incorporating any changes called for as updated MS4 SPDES General Permits are issued.
- Continue to offer and update the Web Mapper, making it more accessible and improving functionality.
- Work with our partner agencies and environmental groups to expand opportunities for the public to get involved with understanding, cleaning up, and protecting our cherished waters.



Ulster County Stormwater Management Program

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

An illicit discharge is defined as any discharge to the municipal separate storm sewer system that is not composed entirely of stormwater; except for discharges allowed under a NPDES (or SPDES) permit or waters used for firefighting operations. As a result of these illicit connections, contaminated wastewater can enter into storm drains or directly into local waters without receiving treatment from a wastewater treatment plant. Illicit connections may be intentional or may be unknown to the business owner and often are due to the connection of floor drains to the storm sewer system. Additional sources of illicit discharges can be failing septic systems, illegal dumping practices, and the improper disposal of sewage from recreational practices such as boating or camping.

Key Goals

The goal for MCM 3 is to identify and eliminate all illicit discharges that are entering the County's storm sewer system. There are a number of steps that will help us to meet this goal: mapping, training, inspections, reporting, tracking, and follow through.

Activities/Practices

Illicit discharge detection and elimination programs are designed to prevent contamination of ground and surface water resources by the monitoring, inspection and removal of these illegal non-stormwater discharges. An essential element of this program is an ordinance granting the authority to inspect properties suspected of releasing contaminated discharges into storm drain systems. Another important factor is the establishment of enforcement actions for those properties found to be in noncompliance or that refuse to allow access to their facilities. The County Legislature of the County of Ulster has enacted "Local Law Number 18 of 2007: A Local Law of the County of Ulster, NY, Prohibiting Illicit Discharges, Activities and Connections to the Ulster County Separate Storm Sewer System." This local law prohibits anyone from having illicit connections or discharges to the County storm sewer system (MS4). The law also establishes the authority of the Stormwater Management Officer (SMO) to access and inspect any facility that discharges to the MS4 and to enforce this law through issuing notices of violation or to take other remedial actions as required. See *Appendix B1: Local Law Number 18 of 2007*.

Illicit discharges are often detected by conducting dry weather inspections of outfalls; called outfall reconnaissance inventory (ORI). An inspection of each of the County outfalls is conducted at least once every five years. The purpose of these inspections is to detect and eliminate any illicit connections or discharges to the County storm drainage system.

Employees in relevant positions receive training every three years on illicit discharge detection and reporting protocols. The County also maintains a stormwater hotline and dedicated stormwater email address for the public to report suspected illicit discharges or other stormwater concerns.

The County updates the outfall maps as needed when changes are discovered through the ORI or when new structures are added. Ulster County is in the process of collecting data to produce a stormwater drainage system map; this consists of collecting GPS locations and physical structure information on components of the County's storm sewer system. These mapping efforts will assist with the trackdown of illicit discharges.

Ulster County Stormwater Management Program

Further Course of Action

- Complete the mapping of the stormwater infrastructure and additional outfalls in the recently expanded MS4 regulated area.
- Improve procedures for tracking all illicit discharges and their elimination.

Samples of Illicit Discharges and Outfalls



Oil spill



Illicit Discharge



Dry Weather Flow



Illicit Discharge or Natural Foam?

Ulster County Stormwater Management Program

MCM 4: Construction Site Stormwater Runoff Control

Ulster County, as a traditional non-land use control MS4, does not have jurisdiction over building permits and other land use issues. Therefore, the County cannot enact local laws or ordinances (as other MS4 municipalities are required to do) to regulate construction activities. The County has, however, established a procedure to ensure that pollutants from construction activities requiring coverage under the SPDES General Permit for Stormwater Discharges from Construction Activity (any activity disturbing one acre or more of land) do not enter the County stormwater drainage system. This construction and post-construction runoff control mechanism is used to make sure that the Ulster County Stormwater Management Specialist (SWMS) has an opportunity to review all Stormwater Pollution Prevention Plans (SWPPPs) that could have an impact on the County's stormwater drainage system. See Appendix C3: *Ulster County Development Review Statement of Policy: Construction Site and Post-Construction Stormwater Runoff Control – Site Plan Review Procedure*.

Key Goals

The goal for MCM 4 is to ensure that all construction projects requiring a NYS SPDES permit on County owned property, or that have stormwater drainage into the County storm sewer system, have proper plans, measures, and inspections in place to minimize erosion and contain all sediment onsite during construction.

Activities/Practices

For construction projects that occur on County owned property that require coverage under the SPDES Permit, the SWPPP is reviewed by the SWMS and, if located in an MS4 municipality, the SWPPP is submitted to the municipality for SWPPP acceptance prior to submitting a Notice of Intent (NOI) to the DEC for SPDES permit coverage. The SWMS, or a qualified inspector hired by the project manager (if a private firm is managing the project), conducts and records weekly site inspections as required by the SPDES permit. See Appendix C2: *Ulster County Municipal Separate Storm Sewer Systems (MS4) Ulster County Construction Projects-Statement of Policy*.

The SPDES permit for Construction Activity requires that all developers, contractors, and subcontractors identify at least one trained individual from their company that is responsible for SWPPP implementation and is on site daily when there is soil disturbance activity. In order to ensure that contractors in our area have the opportunity to get proper training and certification, Ulster County sponsors the "NYS DEC Endorsed: 4-Hour Contractor Training in Erosion and Sediment Control" every three years. The County provides additional training to County personnel (and municipal employees when requested) on Stormwater Pollution Prevention for Construction Sites.

Ulster County establishes and maintains an inventory of active construction sites located on County property or having direct impact to the County's stormwater drainage system.

Further Course of Action

- Work with designers, developers, and contractors, through all the stages of development (planning, construction, completed development) to ensure that construction sites do not contribute pollutants to our MS4.
- The Stormwater Management Specialist will develop and implement a document for tracking SWPPP reviews, approvals, and inspections.

Ulster County Stormwater Management Program

Some Construction Site Stormwater Runoff Control Measures



Hydroseeded Slope Stabilization



Silt Fence



Hydroseeding Stormwater Pond Embankment

Ulster County Stormwater Management Program

MCM 5: Post-Construction Stormwater Management

Post-construction stormwater management practices are those constructs, devices, features, practices, etc. that remain as a permanent part of a site after all construction activities have been completed. They can include a combination of structural and non-structural practices that are designed according to the standards from the *NYS Stormwater Design Manual* to reduce the discharge of pollutants to the maximum extent practicable (MEP).

Key Goals

The goals for MCM 5 are: to ensure that all post-construction stormwater practices on County sites are functioning well; to increase the awareness and utilization of Green Infrastructure practices on County owned construction, renovation and retrofit projects; and to encourage the utilization of Green Infrastructure techniques for both public and private development and redevelopment projects.

Activities/Practices

Through guidance from the Planning Department, Ulster County encourages all development and redevelopment plans to incorporate the principles of Low Impact Development (LID), Better Site Design (BSD), and Green Infrastructure (GI) practices whenever practical. These are practices that preserve or mimic natural processes, and can include natural resource protection, maintaining natural buffers to protect streams and wetlands, the reduction of impervious areas, installing vegetated swales, bioretention areas, rain gardens, green roofs, porous pavement, and other such practices.

Ulster County will strive to implement these greener stormwater practices on all County sponsored construction and redevelopment projects to the maximum extent practicable. These projects will serve as demonstrations for other municipalities, developers, contractors, and the general public of how to incorporate green infrastructure practices into new and existing sites.

Ulster County Soil and Water Conservation District has established a plant materials center. These materials will be available for use throughout Ulster County for buffer establishment, roadside, and streamside stabilization. Streamside buffers help to reduce pollutants from entering waterbodies and streambank restoration efforts reduce erosion. Ulster County along with the UC SWCD will continue to look for new opportunities for additional planting areas.

The County keeps an inventory, inspection, and maintenance records for all post-construction stormwater management practices on its property. These practices include dry ponds, wet ponds, Vortechs unit, permeable pavers, and rain gardens. These practices, as well as all site drainage systems, are inspected bi-monthly for routine maintenance and (more thoroughly) annually for system function and integrity. Any concerns identified during these inspections are referred to the Stormwater Management Specialist.

Further Course of Action

- Continue to inspect and monitor our post-construction practices.
- Incorporate Green Infrastructure practices into all Ulster County facility construction, reconstruction, renovation, and retrofit projects.

Ulster County Stormwater Management Program

- Install Green Infrastructure upgrades at the County Office Building complex. This project, along with other GI projects, will be used as demonstration sites.

Sample Green Infrastructure Practices



Rain Garden



Permeable Pavers



Bioretention Strip



Tree Pit

Ulster County Stormwater Management Program

MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations

Municipal facilities and operations can generate and release many pollutants into the stormwater drainage system. This minimum control measure addresses policies and practices that Ulster County has taken to reduce the generation and minimize the impact of these potential pollutants.

Key Goals

The goal of MCM 6 is to ensure, through the use of laws, resolutions, training, policies and procedures, that the County reduces pollutants generated “to the maximum extent practicable” through the use of best management practices (BMPs) in carrying out the day-to-day activities of providing services to the people of Ulster County.

Activities/Practices

The Ulster County Legislature has passed resolutions and enacted local laws that reduce the pollutants generated by various maintenance activities. These measures include:

- *Local Law No. 4 of 2009: A Local Law Requiring Non-Toxic Landscape Maintenance on Land Owned or Leased by the County of Ulster* which ensures that pesticides and herbicides are not used on County lands except in unique circumstances when waivers are necessary. *See Appendix D1.*
- *Resolution No.282, November 16, 2010: Requiring the Purchase and Use of Green Cleaning Products in All County Facilities. See Appendix D2.*
- *Resolution No. 283, November 16, 2010: Requiring the Purchase and Use of Low or No Volatile Organic Compounds (VOC) Paints and Coatings in All County Facilities. See Appendix D3.*
- *Resolution No. 74, March 15, 2011: Prohibiting the Leasing of any County-Owned Lands, including but not limited to County Parks for High-Volume Chemical Slick-Water Hydraulic-Fracturing to Extract Natural Gas. See Appendix D4.*
- *Local Law No. 6 of 2012: A Local Law of the County of Ulster, New York Known as the “Hydraulic Fracturing Brine Prohibition Act”* a law banning the use of Hydraulic fracturing (fracking) brine on any property or roadway owned or controlled by the County, by any party. *See Appendix D5.*

All of these efforts illustrate the commitment of Ulster County government to protecting our citizens, our employees, and our environment by reducing or eliminating the use of pollutants that could otherwise end up in our waters.

The Ulster County Department of Public Works (including both the Highways & Bridges and the Buildings & Grounds divisions) continues to examine maintenance practices to find ways to reduce pollutants in our stormwater drainage system. Ulster County is developing a procedure to conduct soil testing on County property prior to using fertilizer from entering our lands and waters. When implemented, this procedure will reduce the use of fertilizer and cut down on the nutrients and other chemical pollutants in fertilizer from reaching our waterways. DPW has a schedule to sweep roads and parking lots annually. All County building drainage systems are inspected monthly, and catch basins in the MS4 regulated area are inspected and cleaned as needed. The catch basins in the vehicle wash bay at the main highway garage are inspected and cleaned frequently in the winter and quarterly the rest of the year.

Ulster County Stormwater Management Program

The County continues to assess maintenance operations to find opportunities to implement environmentally friendly practices; all solvent based parts washers in the Highway Garage have been replaced with Bio-circle parts washers—using microorganisms to biodegrade the greases and oils. Chemical storage is inspected and inventoried annually at all Ulster County facilities and all records are filed with our County Safety Office.

Ulster County holds an auction of surplus or obsolete vehicles that are stored at the main highway facility as well as at the County's Central Auto facility. These vehicles are then repaired and reutilized or scrapped and recycled by the purchasers—reducing the burden of these vehicles and waste products going to landfills and potentially leaking pollutants.

Further Course of Action

- Establish and implement a Road Salt Management plan, addressing the storage, handling, mixing, calibration of spreaders, and the application of road deicing materials. The County will continue to researching environmentally safer, but equally effective, products and procedures to reduce the usage of salt.
- Expand efforts to increase the awareness, policies, and utilization of green procurement to ensure that all departments are using the most effective, cost effective, safest (both for personnel and the environment) products that are readily available.
- Continue proper maintenance practices to reduce pollutants to the maximum extent practicable, leading to cleaner waterbodies that fully support their designated uses for us all to enjoy.

Some Pollution Prevention/Good Housekeeping Practices for Municipal Operations



Catch Basin Cleaning



Vacuum Streetsweeper



Salt Storage Shed

Ulster County Stormwater Management Program (SWMP)

Implementation Framework

Minimum Control Measure 1: Public Education on Stormwater Impacts and Program					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
1.01	Education of the public* about the hazards associated with illegal discharges and improper disposal of waste as required by MCM 3	Set up printed stormwater information brochure rack in the lobby of the County Office Building. Brochure topics include proper lawn and garden care, pet waste management, low impact development, water conservation, waste oil disposal, and car washing and maintenance. Established a stormwater website within the Ulster County Government website: http://ulstercountyny.gov/public-works/stormwater-management	Numbers and titles of brochures restocked.	Department of the Environment (DoEnv) Information Services (IS) / DoEnv	DoEnv; samples of brochures and distribution spreadsheet are kept in Stormwater Binder at DoEnv (Binder). Ongoing—updated annually in March
1.02	IDDE education activities planned or completed, as required by MCM 3	Training of UC staff on identifying and reporting illicit discharges.	All county employees in relevant positions are trained every three years. New hires will be trained within their first year. Number of employees trained.	Department of Public Works (DPW), Health Department, Central Auto, Ulster County Area Transit(UCAT) / DoEnv	DoEnv; training agenda, presentation, and attendance sheets are kept in Binder at DoEnv. Ongoing—Training due Fall/Winter 2013/14.
1.03	Construction site stormwater control training planned or completed, as required by MCM 4	Training of UC staff in relevant positions on erosion and sediment control on construction sites and on green infrastructure practices for stormwater and pollution reduction. 4-Hour DEC certified Contractor training in Erosion and Sediment control offered every three years.	All county employees in relevant positions are trained every three years. Number of employees trained. Number of people trained and certified.	Department of Public Works (DPW) / DoEnv Ulster County Soil and Water Conservation District (SWCD) and DoEnv	DoEnv; training agenda, presentation, and attendance sheets are kept in Binder. Ongoing—Training due Fall/Winter 2013/14. Copy of attendance sheet with certification numbers are kept in Binder.
1.04	Employee pollution prevention/good housekeeping training planned or completed, as required by MCM 6	Training of UC staff in relevant positions.	All county employees in relevant positions are trained every three years. New hires will be trained within their first year. Number of employees trained.	Department of Public Works (DPW), Health Department, Central Auto, Ulster County Area Transit (UCAT) / DoEnv	DoEnv; training agenda, presentation, and attendance sheets are kept in Binder. Ongoing—training due Fall/Winter 2013/14.
1.05		Stormwater storm drain marker installation for all catch basins when practical in MS4 area.	Number of markers placed/replaced.	Ulster County Soil and Water Conservation District (SWCD) and DoEnv	DoEnv reports on any markers placed.
1.06		Stormwater training presentations for MS4 municipalities' staff, on request.	Number of MS4 municipalities assisted. Number of employees trained.	MS4 Municipal employees / DoEnv	DoEnv; training agenda, presentation, and attendance sheets are kept in Binder. As requested.

Minimum Control Measure 1: Public Education on Stormwater Impacts and Program (cont.)

Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
1.07		Maintain a lending library of stormwater training videos and various water testing equipment and supplies. Inform other Ulster County MS4 municipalities that these items are available.	Number of municipalities borrowing videos or equipment.	MS4 Municipalities / DoEnv	DoEnv; list of materials available and sign-out log are kept in Binder. As needed.
1.08		Provide stormwater management workshops on topics relevant to MS4 municipalities.	Provide at least two workshops annually. Number of participants.	DoEnv, DEC, others / DoEnv	DoEnv; flyers, agendas, and attendance sheets are kept in Binder. Ongoing
1.09		Provide technical assistance and support to MS4 communities in meeting their municipal SPDES obligations.	Number of municipalities assisted.	DoEnv and IS	DoEnv reports on any assistance provided. Ongoing—report on activity annually.
1.10		Provide access to general rain garden information on Ulster County stormwater webpage.	Number of visitors were introduced to rain gardens	DoEnv	DoEnv
1.11		Participate in meetings of stormwater related organizations within the county.	Log participation in and details of stormwater related public meetings.	DoEnv, EMC, and others	DoEnv; agendas and meeting notes, including attendance, are kept in Binder.

***Public for traditional non-land use control MS4 is our staff , contractors, visitors**

Ulster County Stormwater Management Program (SWMP) Implementation Framework

Minimum Control Measure 2: Public Involvement/Participation in Stormwater Program					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
2.01	<p>Provide public notice of annual report's availability.</p> <p>Provide public access to annual report. Provide comment mechanism for annual report.</p> <p>If there is a public presentation of annual report, provide timely public meeting notice in relevant media.</p>	<p>Prepare the Annual report and publicize it on the county website for public review and comments.</p> <p>Post the annual report on the stormwater website by mid May to allow sufficient time for public comment.</p> <p>Place legal notice in local newspapers to announce annual report's availability. Present annual report at meeting of Ulster County Environmental Management Council (EMC).</p> <p>Use the dedicated telephone hotline: (845) 334-8510 and dedicated email address: stormwater@co.ulster.ny.us to receive public comments.</p>	<p>Number of comments received.</p> <p>Number of attendees at annual report presentation.</p>	EMC, MS4 Municipalities, G	<p>DoEnv; copies of Public Notice, attendance list, and comments received are kept in Binder. Draft and final Annual Report and past Annual Reports are available online and at DoEnv office.</p> <p>http://ulstercountyny.gov/public-works/stormwater-management</p> <p>Draft Annual Report posted in April. Final report posted in May.</p>
2.02	Provide public notice of and access to stormwater management documents and information.	Stormwater management documents are available for public review and comment on the stormwater website. Use the dedicated telephone hotline and dedicated email address to receive public comments.	Number of comments received.	Public / DoEnv, DPW	DPW Stormwater Management Specialist (SWMS) maintains hotline log. Comments are logged. SWMS provides copy of log to DoEnv annually in March to be posted in Binder.
2.03	Present Stormwater Management Program (SWMP) to the public	Present draft SWMP to Ulster County Departments and Agencies for review and revision. Present draft SWMP at meeting of EMC. Place the Stormwater Management Program plan on the Ulster County stormwater website and in the dedicated brochure rack in the County Office Building.	<p>Number of SWMPs restocked in brochure rack. Number of meetings/attendees with relevant Departments and Agencies.</p> <p>Number of attendees at EMC meeting.</p>	EMC, Municipal MS4 Stormwater contacts, DPW, Planning, IS, Health Department, UCAT, SWCD, UCRRA / DoEnv	DoEnv; meeting attendance sheets are kept in Binder.

Minimum Control Measure 2: Public Involvement/Participation in Stormwater Program (cont.)					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
2.04		A dedicated telephone hotline and dedicated email address were established in 2007 for the public inquiries about or comments on stormwater concerns. These are listed on the county stormwater webpage: http://ulstercountyny.gov/public-works/stormwater-management	Stormwater related phone calls and emails and the status and resolution of complaints are recorded in a dedicated log.	DPW Stormwater Management Specialist (SWMS) / DoEnv	SWMS maintains hotline phone log. SWMS provides copy of phone log including status of any complaints to DoEnv to post in Binder annually in March.
2.05		Ulster County Resource Recovery Agency (UCRRA), an Ulster County agency, conducts Household Hazardous and pharmaceutical and E-waste events annually.	Report on number of participants and amount of material collected.	General public / UCRRA	UCRRA reports annual data to DoEnv in March to post in Binder.

Ulster County Stormwater Management Program (SWMP) Implementation Framework

Minimum Control Measure 3: Illicit Discharge Detection and Elimination (IDDE)					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
3.01	Update and map stormwater outfalls.	Map new outfall locations.	Number of new outfalls mapped.	DPW / DoEnv and IS	DPW reports any changes to DoEnv. DoEnv provides updated data to IS to update on online parcel viewer. Ongoing.
3.02	Illicit discharge detection and elimination.	IDDE procedure has been extended to all Ulster County facilities. Ulster County DPW administers IDDE reporting.	An IDDE log was prepared to record the number of suspected illicit discharges reported, confirmed and eliminated.	DPW, Health Department / SWMS	SWMS maintains IDDE log at DPW. Log is provided to DoEnv annually in March for posting in Binder.
3.03	Outfall reconnaissance inventory (ORI).	Inspect outfalls for dry weather discharges and other signs of illicit discharges. Maintain log of inspected outfalls.	Number and percentage of outfalls inspected each year. 20% of the outfalls are scheduled for inspection per year. All outfalls are inspected at least once every five years.	DoEnv	DoEnv; dedicated ORI binder is maintained at DoEnv. Ongoing.
3.04	MS4 must adopt a local law to prohibit illicit discharges, and certify that this law is equivalent to the NYS Model IDDE Local Law.	Ulster County must adopt and the County Attorney must certify the IDDE law.	Local Law Number 18 of 2007 was adopted (<i>see appendix B1</i>). Certification was documented in the 2009 Annual Report.	Ulster County Legislature Ulster County Attorney	DoEnv; copy of local law and attorney certification are kept in Binder. Permanent.
3.05	Storm sewershed mapping.	Prepare maps in GIS format and conduct field verification.	Completed sewershed mapping by March 9, 2010.	IS prepared maps, posted online / DoEnv	IS; storm sewershed (subwatershed) maps are included online in parcel viewer. DoEnv has copy of sewershed maps in Binder. Permanent
3.06	Inform public of hazards from illegal discharges and improper waste disposal.	Employee training includes IDDE information. Health Department personnel will incorporate this information into their restaurant and septic system inspections.	County employees are trained every three years. Number of employees trained. Number of restaurants and homeowners given illicit discharge information by Health Department	Department of Public Works (DPW), Health Department, Central Auto, Ulster County Area Transit (UCAT) / DoEnv	DoEnv; training agenda, presentation, and attendance sheets are kept in Binder. Health Department maintains spreadsheet on businesses and residents informed of Illicit Discharge hazards. Copies of spreadsheet provided to DoEnv annually in March to post in Binder.

Minimum Control Measure 3: Illicit Discharge Detection and Elimination (IDDE) (cont.)					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
3.07		Map storm drainage system for UC MS4 in the urbanized area.	Completion of preliminary map by March 9, 2014. Update as needed.	DoEnv, DPW, IS / DoEnv	DoEnv conducts mapping, data is shared with DPW and IS. IS compiles mapbooks for DPW to review. DPW furnishes comments and corrections to DoEnv. Data corrections made/remapped as necessary. Copy of mapbooks are maintained in SWMS office. DoEnv reports on progress annually.
3.08		Maintain dedicated stormwater hotline and e-mail address.	Number of calls to hotline. Number of emails received	SWMS, DoEnv	SWMS maintains spreadsheet of activity. SWMS provides spreadsheet to DoEnv annually in March to include in Binder.

Ulster County Stormwater Management Program (SWMP) Implementation Framework

Minimum Control Measure 4: Construction Site Stormwater Runoff Control					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
4.01	Status of regulatory mechanism. Certify that the mechanism will assure compliance with the NYS SPDES General Permit for Stormwater Discharges from Construction Activities.	The county Stormwater Management Specialist (SWMS) receives SWPPPs from the Ulster County DPW, Health Department, and the Planning Department for review. The county SWMS reviews county-owned projects as well as other construction projects discharging stormwater to county property.	In the review process, the SWMS follows the requirements of the SPDES permits for Stormwater Discharges from Construction Activities and MS4s.	DPW, Health Department, and the Planning Department / SWMS	SWMS maintains spreadsheet of SWPPPs reviewed and their status. SWMS furnishes spreadsheet to DoEnv annually in March for reporting and posting in Binder.
4.02	Maintain log of construction sites authorized for land disturbances of one acre or more.	The county SWMS reviews SWPPPs and maintains a log of active construction sites which discharge water to the county drainage system.	Create and maintain a dedicated log for regulated construction sites. Update it as necessary. Number of SWPPPs reviewed.	SWMS	SWMS furnishes log of active construction sites to DoEnv annually in March for reporting and posting in Binder.
4.03	Education of construction site operators, design engineers, municipal staff about the stormwater related construction requirements.	Training of staff in relevant positions and, on request, for town DPW employees on erosion and sediment control practices on construction sites. 4-Hour DEC certified Contractor training in Erosion and Sediment and Erosion control offered every three years.	County employees receive training every three years. Number of employees trained. Number of people trained and certified.	Department of Public Works (DPW) / DoEnv Ulster County Soil and Water Conservation District (SWCD) and DoEnv	DoEnv; training agenda, presentation, and attendance sheets are kept in Binder. Ongoing—training due Fall/Winter 2013/14. DoEnv keeps copy of attendance sheet with certification numbers in Binder. Training offered every three years. Next scheduled
4.04	Procedure of enforceable mechanisms for construction runoff control from new development and re-development projects.	Receive complaints from employees, private organizations and concerned citizens through the stormwater hotline: (845)334-8510 or e-mail: stormwater@co.ulster.ny.us . Evaluate complaints. Work with land use MS4s to enforce runoff control.	Number of complaints.	SWMS	SWMS investigates and maintains log of construction runoff complaints and status. SWMS furnishes log to DoEnv annually in March for reporting and posting in Binder.
4.05		The Ulster County Planning Board's Referral Guide (Guide) was developed in November, 2008 and took effect on January 1, 2009. The Guide includes SWPPP review requirements for all projects within 500 feet of state, county, and municipal properties anywhere in the County. See the Guide at: http://www.co.ulster.ny.us/planning/pdoc.html	Guide will be reviewed and revised as needed. Develop and maintain separate log sheets of the submitted SWPPPs for projects within Ulster County. Update log sheets as needed.	Planning, DPW, SWMS / SWMS	SWMS maintains spreadsheet of SWPPPs reviewed and their status. SWMS furnishes spreadsheet to DoEnv annually in March for reporting and posting in Binder.

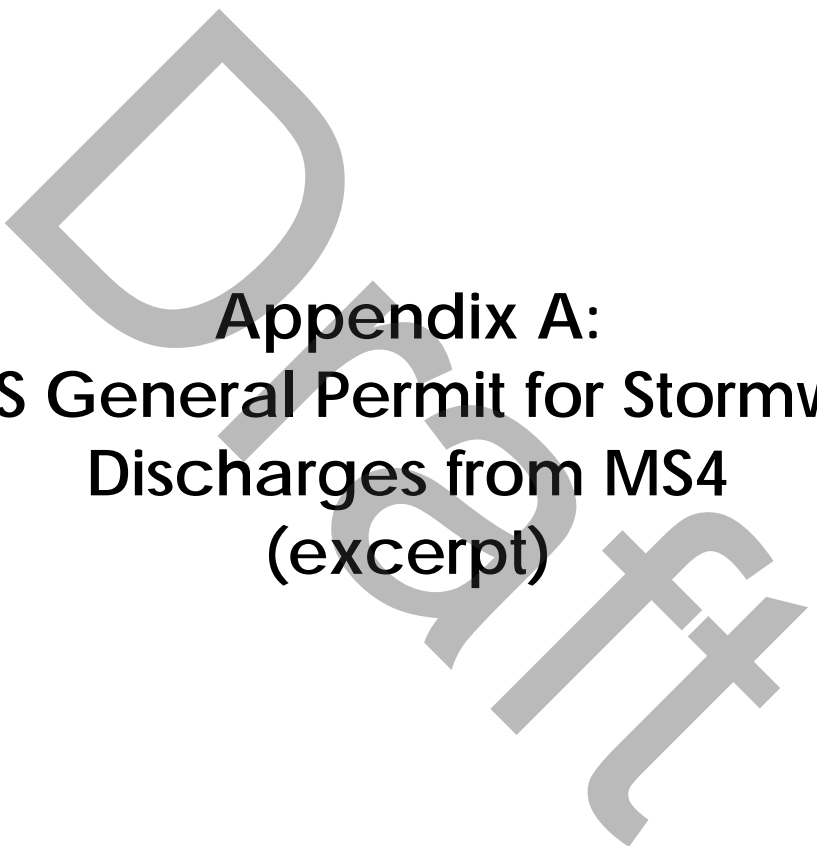
Ulster County Stormwater Management Program (SWMP) Implementation Framework

Minimum Control Measure 5: Post-Construction Stormwater Management					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
5.01	Inspect stormwater management practices.	Develop, implement, and provide adequate resources for a program to inspect development and re-development sites. Use the "Maintenance Inspection Checklist" provided in the "NYS Stormwater Management Design Manual" when appropriate.	The inspection shall be conducted in accordance with the "Maintenance Inspection Checklist." Number and type of post-construction management practices inspected.	DPW (B&G)	DPW (B&G) delivers annual inspection reports to DoEnv for annual reporting in March and inclusion in Binder
5.02	Maintain stormwater management practices.	Inspection detects problems, stormwater management practices will be repaired.	Number and type of post-construction management practices repaired.	DPW / SWMS	SWMS maintains log with practice type, location, inspection, and maintenance activity. SWMS furnishes copy of log to DoEnv annually in March for reporting and posting in Binder.
5.03	Status of regulatory mechanism: Ensure that the regulatory mechanism complies with the "NYS Stormwater Management Design Manual."	The county Stormwater Management Specialist (SWMS) reviews the SWPPPs for compliance and conducts site inspections to ensure compliance with the "NYS Stormwater Management Design Manual" available at: http://www.dec.ny.gov/chemical/29072.html	Number of full SWPPPs reviewed by SWMS. Number of site inspections	SWMS	SWMS maintains spreadsheet of SWPPPs reviewed and their status. SWMS furnishes spreadsheet to DoEnv annually in March for reporting and posting in Binder.
5.04	Procedure of enforceable mechanisms for post-construction runoff control from new development and re-development projects.	Receive complaints from employees, private organizations and concerned citizens through the stormwater hotline or e-mail. Evaluate complaints. Work with land use MS4s to enforce runoff control.	Number of complaints.	SWMS	SWMS investigates and maintains log of post-construction runoff complaints. SWMS furnishes spreadsheet to DoEnv annually in March for reporting and posting in Binder.
5.05		Ulster County will employ Green Infrastructure practices for post-construction stormwater management for development and redevelopment projects on County owned property when practicable.	Number of practices employed and maintained.	DPW, Planning, DoEnv	DoEnv maintains spreadsheets of GI practices. DPW maintains maintenance logs on GI practices on County property. Log is furnished annually in March to DoEnv for reporting and posting in Binder.

Ulster County Stormwater Management Program (SWMP) Implementation Framework

Minimum Control Measure 6: Pollution Prevention/Good Housekeeping					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
6.01	Assessment of municipal operations and facilities.	Municipal operations and facilities are assessed and procedures are developed to achieve maximum pollution prevention.	Pollution prevention plan updated and implemented.	DPW / SWMS	Pollution prevention plans are kept onsite for each DPW facility and in the office of the SWMS with copies in the DoEnv. SWMS conducts facility assessments at least every three years and updates plans as needed. SWMS reports assessment status to DoEnv annually in March.
6.02	Parking lot sweeping. Road sweeping. Catch basin inspection and cleaning.	All Ulster County maintained parking lots are swept according to schedule. All Ulster County maintained roads in MS4 regulated area are swept according to schedule. All Ulster County maintained catch basins in MS4 regulated area are inspected and cleaned as needed according to schedule.	Number of acres of parking lot swept. Schedule adjusted as needed. Miles of road swept. Schedule adjusted as needed. Number of catch basins inspected and, where necessary, cleaned. Schedule adjusted as needed	DPW / SWMS	SWMS furnishes schedule and implementation status to DoEnv annually in March for reporting and posting in Binder.
6.03	Inspection of post-construction control stormwater management practices.	Use the "Maintenance Inspection Checklist" provided in the "NYS Stormwater Management Design Manual" when appropriate to inspect function of post-construction stormwater management practices. http://www.dec.ny.gov/chemical/29072.html	Number of post-construction control stormwater management practices inspected and, where necessary, cleaned	DPW / SWMS	DPW (B&G) delivers annual inspection reports to DoEnv in March for annual reporting and inclusion in Binder.
6.04	Phosphorus and nitrogen application in chemical fertilizer.	Conduct soil test to determine need prior to application of fertilizer on all County maintained property. Application by county employees who have received stormwater and good housekeeping training.	Effective and minimum use of phosphorus. Number of soil tests conducted. Total pounds of phosphorus used. Total pounds of nitrogen used.	DPW (B&G)	B&G maintains log of soil tests and any fertilizer used for all County property (SWMS keeps log for Highway division usage) and furnishes copy of log to DoEnv annually in March for reporting and posting in Binder. Copies of soil tests are also kept in Binder.
6.05	Pesticides/herbicides application.	Utilize procedure established by Non-toxic Pest Management policy and Local Law No. 4 of 2009 (<i>see appendix D1</i>) for application of pesticides or herbicides on all County maintained property.	Minimize use of pesticides/herbicides on County maintained property. Amount of pesticides/herbicides applied as pure product. Number of acres treated.	DPW B&G and SWMS	All use of pesticides/herbicides must follow Local Law. B&G keeps log on any usage of pesticides/herbicides (SWMS keeps log for Highway division usage) and furnishes to DoEnv annually in March for reporting and posting in Binder.

Minimum Control Measure 6: Pollution Prevention/Good Housekeeping (cont.)					
Item #	Required Elements	Activities/Practices	Measurable parameter	Participants/Responsible Party	Reporting
6.06	Employee training in pollution prevention/good housekeeping.	Employee training on municipal pollution prevention/good housekeeping practices is conducted for all County employees in relevant positions.	All county employees in relevant positions receive training every three years. New hires will be trained within their first year.	Department of Public Works (DPW), Central Auto, Ulster County Area Transit (UCAT) / DoEnv	DoEnv; training agenda, presentation, and attendance sheets are kept in Stormwater Binder at DoEnv. Ongoing–Training due Fall/Winter 2013/14.
6.07	Winter road maintenance.	Utilize BMPs for road salt storage and usage. Establish and implement a Road Salt Management Plan.	Road Salt Management plan to be developed and utilized. Track amount of salt used annually.	DPW / SWMS	SWMS/DPW to develop and implement Road Salt Maintenance plan. Copy of plan to be kept at DoEnv. SWMS reports on plan development to DoEnv. Annual salt usage is reported to DoEnv in March for reporting and posting in Binder.
6.08	Solid waste management.	Ulster County Department of Buildings and Grounds conducts monthly inspection and trash removal on County properties.	Number of sites maintained. Number of acres maintained.	DPW (B&G)	B&G maintains property maintenance log. Copy of log furnished to DoEnv in March for reporting and posting in Binder.
6.09	Right of way (ROW) maintenance.	Ditch cleaning and shaping	Number of acres mulched/hydr mulched and seeded/hydroseeded.	DPW / SWMS	SWMS maintains log of ROW maintenance activity. Log is furnished to DoEnv annually in March for reporting and posting in Binder.
6.10	Municipal buildings.	Ensure that all the roof drains, gutters, and downspouts are free from debris and pollutants. Prevent leaks and contaminants from entering the drainage system.	Number of buildings inspected. Number of problems corrected.	DPW (B&G)	B&G maintains property maintenance log. Copy of log furnished to DoEnv in March for reporting and posting in Binder.
6.11	Chemical storage.	Store all chemicals in closed shelters with concrete floors. Use appropriate labels and containers. Maintain accurate inventory of chemicals. Provide spill kits and spill response training, including spill reporting training.	Number of facilities inventoried and inspected for proper chemical storage. Number of incidents reported.	DPW, UCAT, Central Auto / Safety	DPW, UCAT, and Central Auto maintain chemical storage inspection logs. Spills and issues reported to Safety. Copy of logs and reports furnished to DoEnv annually in March for reporting and posting in Binder.
6.12	Fleet maintenance.	Auction of unused/obsolete vehicles and equipment. Provide every highway garage with spill kit(s) to clean up oil, lubricants, and fuel. Replace spill kits/sorbent as needed.	Auction to be conducted as needed. Number of vehicles/pieces of equipment sold. Number of spill kits replaced. Additional pounds of ChemOil-Away sorbent distributed.	DPW and Central Auto / Equipment Maintenance Leader and Fleet Manager DPW / SWMS	Equipment Maintenance Leader maintains list of vehicles/equipment slated for auction. Post auction list is furnished to DoEnv for reporting and posting in Binder. SWMS reports activity to DoEnv.
6.13		Assess, identify, and implement opportunities for environmentally friendly operational and maintenance practices.	Number of practices implemented/utilized.	DPW and All Departments as appropriate/ DoEnv	SWMS reports on any new practices implemented to DoEnv for reporting .



**Appendix A:
SPDES General Permit for Stormwater
Discharges from MS4
(excerpt)**

New York State Department of Environmental Conservation

**SPDES General Permit for Stormwater Discharges
from**

**Municipal Separate Storm Sewer Systems
(MS4s)**

**Permit No. GP-0-10-002
Effective May 1, 2010- April 30, 2015**

(Excerpt only)

**PART VIII. MINIMUM CONTROL MEASURES - TRADITIONAL
NON-LAND USE CONTROL AND NON-TRADITIONAL MS4s**

**A. Traditional Non-Land Use Control and Non-traditional MS4 Minimum Control
Measures (MCMs)**

These MCMs apply to *traditional non-land use control MS4s* and *non-traditional MS4s*. The SWMP for these *small MS4s* must be comprised of the 6 MCMs below. It is recommended that covered entities refer to assistance and guidance documents available from the *State* and EPA.

Under this *SPDES general permit*, the continuing *covered entities* are required to implement their SWMP, including the MCM requirements below. Newly regulated covered entities are required to develop their SWMP, containing the MCM requirements below, within the first 3 years of coverage and then commence implementation.

The *covered entity* may *develop* (for newly authorized *MS4s*) and / or *implement* their SWMP within their jurisdiction on their own. The *covered entity* may also *develop* (for newly authorized *MS4s*) and / or *implement* part or all of their SWMP through an intermunicipal program with another *covered entity(s)* or through other cooperative or contractual agreements with third parties that provide services to the *covered entity(s)*.

For each of the elements of the SWMP plan, the *covered entity* must identify (i) the agencies and/or offices that would be responsible for implementing the SWMP plan element and (ii) any protocols for coordination among such agencies and/or offices necessary for the implementation of the plan element.

To comply with the requirements of this *SPDES general permit*, the *traditional non-land use control MS4s* and *non-traditional MS4s* should consider their public to be the employee / user population, visitors, or contractors / developers. Examples of the public include, but are not limited to:

- transportation *covered entities* - general public using or living along transportation systems, staff, contractors;
- educational *covered entities* - faculty, other staff, students, visitors;
- other government *covered entities* - staff, contractors, visitors.

1. Public Education and Outreach on Stormwater Impacts SWMP Development / Implementation

At a minimum, all *covered entities* must:

- a. Identify *POCs*, waterbodies of concern, geographic areas of concern, target audiences;
- b. *Develop (for newly authorized MS4s) and implement* an ongoing public education and outreach program designed to describe:
 - i. the impacts of *stormwater discharges* on waterbodies;
 - ii. *POCs* and their sources;
 - iii. steps that contributors of these pollutants can take to reduce pollutants in *stormwater* runoff; and
 - iv. steps that contributors of non-*stormwater discharges* can take to reduce pollutants (non-*stormwater discharges* are listed in Part I.A.2);
- c. Educational materials may be made available at, locations including, but not limited to:
 - i. at service areas, lobbies, or other locations where information is made available;
 - ii. at staff training;
 - iii. on *covered entity's* website;
 - iv. with pay checks; and
 - v. in employee break rooms;
- d. *Develop (for newly authorized MS4s), record, periodically assess and modify as needed measurable goals; and*
- e. Select and implement appropriate education and outreach *activities and measurable goals* to ensure the reduction of all *POCs* in *stormwater discharges* to the *MEP*.

2. Public Involvement/Participation - SWMP Development / Implementation

At a minimum, all *covered entities* must:

- a. Comply with *State* and local public notice requirements identified below when implementing a public involvement / participation program:
 - i. *traditional non-land use control MS4s* shall comply with the *State Open Meetings Law* and local public notice requirements, such as *Open Meetings Law*; and
 - ii. *traditional non-land use control MS4s* and *non-traditional MS4s* may comply with this requirement by determining who their public is (staff, visitors, contractors, etc.) and posting notifications (as needed) in areas viewable by the public. Such areas include common areas, bulletin boards, agency/office web pages, etc. For *small MS4s* whose public are in multiple locations, notifications shall be made available to the public in all locations within the urbanized or additionally designated areas;
- b. Provide the opportunity for the public to participate in the *development, implementation, review, and revision* of the *SWMP*;
- c. **Local stormwater public contact.**

Identify a local point of contact for public concerns regarding *stormwater* management and compliance with this *SPDES general permit*. The name or title of this contact and the telephone number must be published in public outreach and public participation materials and kept updated with the *Department* on the MCC form;

d. Annual report presentation.

Below are the requirements for the annual report presentation:

- i. prior to submitting the final annual report to the *Department*, by June 1 of each reporting year (see Part V.C.), present the draft annual report in a format that is open to the public, where the public can ask questions and make comments on the report. This can be done:
 - at a meeting that is open to the public, where the public attendees are able to ask questions about and make comments on the report. This may be a regular meeting of an existing board. It may also be a separate meeting, specifically for *stormwater*. If multiple *covered entities* are working together, they may have a group meeting (refer to Part V.C.2); or
 - on the internet by:
 - making the annual report available to the public on a website;
 - providing the public the opportunity to provide comments on the internet or otherwise; and
 - making available the opportunity for the public to request an open public meeting to ask questions about and make comments on the report;
- ii. *traditional non-land use control MS4s* must comply with Part VIII.A.2.(d)(i) above. If they choose to present the draft annual report at a meeting, it may be presented at an existing meeting (e.g. a meeting of the Environmental Management Council , Water Quality Coordinating Committee, other agencies, or a meeting specifically for stormwater), or made available for review on the internet. The *covered entity* must make public the following information when noticing the presentation in accordance with *Open Meetings Law* or other local public notice requirements:
 - the placement of the annual report on the agenda of this meeting or location on the internet;
 - the opportunity for public comment. This *SPDES general permit* does not require a specified time frame for public comments, although it is recommended that *covered entities* provide the public an opportunity to comment for a period after the meeting. Comments received after the final annual report is submitted shall be reported with the following year=s annual report. *Covered entities* must take into account those comments in the following year;
 - the date and time of the meeting or date annual report becomes available on the internet; and
 - the availability of the draft report for review prior to the public meeting or duration of availability of the annual report on the internet;
- iii. *non-traditional MS4s* typically do not have regular meetings during which a presentation on the annual report can be made. Those *covered entities* may comply with this requirement by either:
 - noticing the availability of the report for public comment by posting a sign, posting on web site, or other methods with information about the availability and location where the public can view it and contact information for those that read the report to submit comments; or
 - following the internet presentation as explained in Part VIII.A.2(d)(i) above;
- iv. the *Department* recommends that announcements be sent directly to individuals (public and private interested parties) known to have a specific interest in the covered entity's *SWMP*;
- v. include a summary of comments and intended responses with the final annual report. Changes made to the *SWMP* in response to comments should be described in the annual report; and
- vi. ensure that a copy of the final report and, beginning in 2009, the *SWMP* plan are available for public inspection;

e. *Develop (for newly authorized MS4s)*, record, periodically assess and modify as needed *measurable goals*; and

f. Select and implement appropriate public involvement / participation *activities* and *measurable goals* to ensure the reduction of all of the *POCs* in *stormwater discharges* to the *MEP*.

3. Illicit Discharge Detection and Elimination (IDDE) - SWMP Development / Implementation

At a minimum, all *covered entities* must:

- a. *Develop (for newly authorized MS4s), implement and enforce a program to detect and eliminate illicit discharges (as defined at 40CFR 122.26(b)(2)) into the small MS4;*
- b. *Develop (for newly authorized MS4s) and maintain a map, at a minimum within the covered entity's jurisdiction in the urbanized area and additionally designated area, showing:*
 - i. *the location of all outfalls and the names and location of all surface waters of the State that receive discharges from those outfalls;*
 - ii. *by March 9, 2010, the preliminary boundaries of the covered entity's storm sewersheds determined using GIS or other tools, even if they extend outside of the urbanized area (to facilitate trackdown), and additionally designated area within the covered entity's jurisdiction; and*
 - ii. *when grant funds are made available or for sewer lines surveyed during an illicit discharge trackdown, the covered entity's storm sewer system in accordance with available State and EPA guidance;*
- c. *Field verify outfall locations;*
- d. *Conduct an outfall reconnaissance inventory, as described in the EPA publication entitled Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessment, addressing every outfall within the urbanized area and additionally designated area within the covered entity's jurisdiction at least once every five years, with reasonable progress each year;*
- e. *Map new outfalls as they are constructed or discovered within the urbanized area or additionally designated area;*
- f. *Prohibit illicit discharges into the small MS4 and implement appropriate enforcement procedures and actions below, as applicable:*
 - i. *for traditional non-land use control MS4s:*
 - *effectively prohibit, through a law, ordinance, or other regulatory mechanism, illicit discharge into the small MS4 and implement appropriate enforcement procedures and actions; and*
 - *the law, ordinance, or other regulatory mechanism must be equivalent to the State's model IDDE local law "NYSDEC Model Local Law to Prohibit Illicit Discharges, Activities and Connections to Separate Storm Sewer Systems" developed by the State, as determined and certified to be equivalent by the attorney representing the small MS4 ; and*
 - ii. *for non-traditional MS4s:*
 - *prohibit and enforce against illicit discharges through available mechanisms (ie. tenant lease agreements, bid specifications, requests for proposals, standard contract provisions, connection permits, maintenance directives / BMPS, access permits, consultant agreements, internal policies);*
 - *procedures or policies must be developed for implementation and enforcement of the mechanisms;*
 - *a written directive from the person authorized to sign the NOI stating that updated mechanisms must be used and who (position(s)) is responsible for ensuring compliance with and enforcing the mechanisms for the covered entity's IDDE program; and*
 - *the mechanisms and directive must be equivalent to the State's model illicit discharge local law;*

- g. *Develop (for newly authorized MS4s) and implement* a program to detect and address non-stormwater discharges, including illegal dumping, to the *small MS4*. The program must include: procedures for identifying priority areas of concern (geographic, audiences, or otherwise) for IDDE program; description of priority areas of concern, available equipment, staff, funding, etc.; procedures for identifying and locating *illicit discharges* (trackdown); procedures for eliminating *illicit discharges*; and procedures for documenting actions;
- h. Inform the public of the hazards associated with illegal *discharges* and the improper disposal of waste;
- i. Address the categories of non-stormwater *discharges* or flows listed in Part I.A.2 as necessary and maintain records of notification;
- j. *Develop (for newly authorized MS4s)*, record, periodically assess, and modify as needed, *measurable goals*; and
- k. Select and implement appropriate IDDE *BMPs* and *measurable goals* to ensure the reduction of all *POCs* in *stormwater discharges* to the *MEP*

4. Construction Site Stormwater Runoff Control - SWMP Development / Implementation

At a minimum, all *covered entities* must:

- a. *Develop (for newly authorized MS4s)*, *implement*, and enforce a program that:
 - i. provides equivalent protection to the NYS SPDES General Permit for Stormwater Discharges from Construction Activities, unless more stringent requirements are contained within this *SPDES general permit* ;
 - ii. addresses *stormwater* runoff to the *small MS4* from *construction activities* that result in a land disturbance of greater than or equal to one acre. Control of *stormwater discharges* from *construction activity* disturbing less than one acre must be included in the program if:
 - that *construction activity* is part of a *larger common plan of development or sale* that would disturb one acre or more; or
 - if controlling such activities in a particular watershed is required by the *Department*;
 - iii. incorporates mechanisms for construction runoff requirements from new development and redevelopment projects to the extent allowable under *State* and local law that meet the *State's* most current technical standards:
 - through available mechanisms (ie. tenant lease agreements, bid specifications, requests for proposals, standard contract provisions, connection permits, maintenance directives / BMPS, access permits, consultant agreements, internal policies);
 - procedures or policies must be developed for implementation and enforcement of the mechanisms;
 - a written directive from the person authorized to sign the NOI stating that updated mechanisms must be used and who (position(s)) is responsible for ensuring compliance with and enforcing the mechanisms for construction projects that occur on property owned, under easement to, within the right-of-way of, or under the maintenance jurisdiction by the *covered entity* or within the maintenance jurisdiction of the MS4; and
 - the mechanisms and directive must be equivalent to the to the requirements of the NYS SPDES General Permit for Stormwater Discharges from Construction Activities.
 - iv. allows for sanctions to ensure compliance to the extent allowable by *State* law;

- v. describes procedures for receipt and follow up on complaints or other information submitted by the public regarding construction site stormwater runoff;
- vi. educates construction site operators, design engineers, *municipal* staff and other individuals to whom these regulations apply about the construction requirements in the *covered entity's* jurisdiction, including the procedures for submission of *SWPPPs*, construction site inspections, and other procedures associated with control of construction stormwater;
- vii. Ensures that construction site contractors have received erosion and sediment control training, including the *trained contractors* as defined in the SPDES general permit for construction, before they do work within the *covered entity's* jurisdiction:
 - training may be provided by the *Department* or other qualified entities (such as Soil and Water Conservation Districts);
 - the *covered entity* is not expected to perform such training, but they may co-sponsor training for construction site operators in their area;
 - the *covered entity* may ask for a certificate of completion or other such proof of training; and
 - the *covered entity* may provide notice of upcoming sediment and erosion control training by posting in the building department or distribute with building permit application.
- viii. establishes and maintains an inventory of active construction sites, including the location of the site, owner / operator contact information;
- ix. develop (for newly authorized *MS4s*), record, periodically assess and modify as needed *measurable goals*; and
- x. select and implement appropriate construction stormwater *BMPs* and *measurable goals* to ensure the reduction of all *POCs* in *stormwater discharges* to the *MEP*.

5. Post-Construction Stormwater Management SWMP Development / Implementation

At a minimum, all *covered entities* must:

- a. *Develop* (for newly authorized *MS4s*), *implement*, and enforce a program that:
 - i. provides equivalent protection to the NYS SPDES General Permit for Stormwater Discharges from Construction Activities, unless more stringent requirements are contained within this *SPDES general permit*;
 - ii. addresses *stormwater* runoff from new development and redevelopment projects to the *small MS4* from projects that result in a land disturbance of greater than or equal to one acre. Control of *stormwater discharges* from projects of less than one acre must be included in the program if:
 - that project is part of a *larger common plan of development or sale*;
 - if controlling such activities in a particular watershed is required by the *Department*;
 - iii. incorporates enforceable mechanisms for post-construction runoff control from new development and re-development projects to the extent allowable under *State* or local law that meet the *State's* most current technical standards:
 - through available mechanisms (i.e. tenant lease agreements, bid specifications, requests for proposals, standard contract provisions, connection permits, maintenance directives / *BMPS*, access permits, consultant agreements, internal policies);
 - procedures or policies must be developed for implementation and enforcement of the mechanisms;
 - a written directive from the person authorized to sign the NOI stating that updated mechanisms must be used and who (position(s)) is responsible for ensuring compliance with and enforcing

- the mechanisms for construction projects that occur on property owned by the *covered entity* or within the maintenance jurisdiction of the MS4; and
- the mechanisms and directive must assure compliance with the requirements of the NYS SPDES General Permit for Stormwater Discharges from Construction Activities;
- iv. includes a combination of structural or non-structural management practices (according to standards defined in the most current version of the NYS Stormwater management Design Manual) that will reduce the *discharge* of pollutants to the MEP. In the development of environmental plans such as watershed plans, open space preservation programs, local laws, and ordinances covered entities must incorporate principles of *Low Impact Development* (LID), *Better Site Design* (BSD) and other *Green Infrastructure* practices to the MEP. Covered entities must consider natural resource protection, impervious area reduction, maintaining natural hydrologic condition in developments, buffers or set back distances for protection of environmentally sensitive areas such as streams, wetlands, and erodible soils in the development of environmental plans.
- if a *stormwater* management practice is designed and installed in accordance with the New York State Stormwater Management Design Manual or has been demonstrated to be equivalent and is properly operated and maintained, then *MEP* will be assumed to be met for the post construction *stormwater* discharged by the practice;
- v. establish and maintain an inventory of post-construction stormwater management practices to include at a minimum practices discharging to the *small MS4* that have been installed since March 10, 2003, those owned by the small MS4, and those found to cause water quality standard violations.
- the inventory shall include, at a minimum: location of practice (street address or coordinates); type of practice; maintenance needed per the NYS Stormwater Management Design Manual, *SWPPP*, or other provided documentation; and dates and type of maintenance performed; and
- vi. ensures adequate long-term operation and maintenance of management practices by trained staff, including assessment to ensure that the practices are performing properly.
- The assessment shall include the inspection items identified in the maintenance requirements (NYS Stormwater Management Design Manual, *SWPPP*, or other maintenance information) for the practice. *Covered entities* are not required to collect *stormwater* samples and perform specific chemical analysis;
- vii. Covered entities may include in the SWMP Plan provisions for development of a banking and credit system. MS4s must have an existing watershed plan based on which offsite alternative stormwater management in lieu of or in addition to on-site stormwater management practices are evaluated. Redevelopment projects must be evaluated for pollutant reduction greater than required treatment by the state standards. The individual project must be reviewed and approved by the *Department*. Use of a banking and credit system for new development is only acceptable in the impaired watersheds to achieve the no net increase requirement and watershed improvement strategy areas to achieve pollutant reductions in accordance with watershed plan load reduction goals. A banking and credit system must at minimum include:
- Ensures offset exceeds standard reduction by factor of at least 2
 - Offset is implemented within the same watershed
 - Proposed offset addresses the POC of the watershed
 - Tracking system is established for the watershed
 - Mitigation is applied for retrofit or redevelopment
 - Offset project is completed prior to beginning the proposed construction
 - A legal mechanism is established to implement the banking and credit system

- b. *Develop (for newly authorized MS4s), implement, and provide adequate resources for a program to inspect development and re-development sites by trained staff and to enforce and employ sanctions;*
- c. *Develop (for newly authorized MS4s), record, annually assess and modify as needed measurable goals; and*
- d. *Select and implement appropriate post-construction stormwater BMPs and measurable goals to ensure the reduction of all POCs in stormwater discharges to the MEP.*

6. Pollution Prevention/Good Housekeeping For Municipal Operations

SWMP Development / Implementation

At a minimum, all *covered entities* must:

- a. *Develop (for newly authorized MS4s) and implement a pollution prevention / good housekeeping program for municipal operations and facilities that:*
 - i. *addresses municipal operations and facilities that contribute or potentially contribute POCs to the small MS4 system. The operations and facilities may include, but are not limited to: street and bridge maintenance; winter road maintenance; stormwater system maintenance; vehicle and fleet maintenance; park and open space maintenance; municipal building maintenance; solid waste management; new construction and land disturbances; right-of-way maintenance; marine operations; hydrologic habitat modification, or other;*
 - ii. *includes the performance and documentation of a self assessment of all municipal operations to:*
 - *determine the sources of pollutants potentially generated by the covered entity's operations and facilities; and*
 - *identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it is not done already;*
 - iii. *determines management practices, policies, procedures, etc. that will be developed and implemented to reduce or prevent the discharge of (potential) pollutants. Refer to management practices identified in the "NYS Pollution Prevention and Good Housekeeping Assistance Document" or other guidance materials available from the EPA, the State, or other organizations;*
 - iv. *prioritizes pollution prevention and good housekeeping efforts based on geographic area, potential to improve water quality, facilities or operations most in need of modification or improvement, and covered entity's capabilities;*
 - v. *addresses pollution prevention and good housekeeping priorities;*
 - vi. *includes an employee pollution prevention and good housekeeping training program and ensure that staff receive and utilize training;*
 - vii. *requires third party entities performing contracted services, including but not limited to, street sweeping, snow removal, lawn / grounds care, etc., to make the necessary certification in Part IV.G; and*
 - viii. *requires municipal operations and facilities that would otherwise be subject to the NYS Multisector General Permit (MSGP, GP-0-06-002) for industrial stormwater discharges to prepare and implement provisions in the SWMP that comply with Parts III. A, C, D, J, K and L of the MSGP. The covered entity must also perform monitoring and record keeping in accordance with Part IV. of the MSGP. Discharge monitoring reports must be attached to MS4 annual report. Those operations or facilities are not required to gain coverage under the MSGP.*
Implementation the above noted provisions of the SWMP will ensure that MEP is met for discharges from those facilities;
- b. *Consider and incorporate cost effective runoff reduction techniques and green infrastructure in the routine upgrade of the existing stormwater conveyance systems and municipal properties to the MEP. Some examples include replacement of closed drainage with grass swales, replacement of the existing*

islands in parking lots with rain garden, or curb cuts to route the flow through below grade infiltration areas or other low cost improvements that provide runoff treatment or reduction.

- c. *Develop (for newly authorized MS4s), record, periodically assess and modify as needed measurable goals ; and*
- d. *Select and implement appropriate pollution prevention and good housekeeping BMPs and measurable goals to ensure the reduction of all POCs in stormwater discharges to the MEP.*
- e. *Adopt techniques to reduce the use of fertilizers, pesticides, and herbicides, as well as potential impact to surface water.*

Draft

**Appendices B1-B3:
Illicit Discharge Detection and Elimination**

Adopting Introductory Local Law No. 20 Of 2007 (A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System), Hereinafter Known As Local Law Number 18 Of 2007

The Environmental Committee (Chairman Shapiro and Legislators Bartels, Distel, R.A. Parete, Rodri guez, Fabiano and Mc Afee) and Legislator Lomita offer the following:

WHEREAS, Resolution No. 376, dated November 14, 2007, set t he date for Public Hearing on Int roductory Local Law No. 20 Of 2007 (A Local Law Of The County Of Ulster, New York Prohib iting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System), to be held on Wednesday, December 5, 2007 at 6:00 PM in the Legislative Chambers , Ulster County Office Building, 244 Fair Street, Kingston, New York, and

WHEREAS, said Public Hearing was he ld on Wednesday, December 5, 2007 at 6:00 PM, Ulster County Office Building, 244 Fair Street, Kingston, New York, and

WHEREAS, said Public Hearing was duly advertised in the official newspapers of the County of Ulster together with a s upplemental newspaper of the County of Ulster and post ed on the signboard mainta ined by the Clerk of the Legislature situated in the Ulster County Office Building, and

WHEREAS, all parties in attendance we re permitted an oppor tunity to speak on behalf of or in opposition to said proposed Local Law, and

WHEREAS, pursuant to Resolution No. 371, adopted by the Ulster County Legislature on November 14, 2007, the Ulst er County Legislature declared itself the lead agency under the State Environmental Quality Review Act (SEQRA), and

WHEREAS, the County of Ulster has identified interested agencies and has circulated the subject proposed Local Law here in together with its notice to s erve as Lead Agency and Part 1 of the Short Environmental Assessment Form, upon those interested agencies, and

WHEREAS, pursuant to Part 617 of th e implementing regulations pertaining to SEQRA regarding the consideration of said Local Law, the C ounty of Ulster has determined that the proposed Local Law constitutes an Unlisted Action as defined under said SEQRA regulations.

Resolution No. 425 December 12, 2007

Adopting Introductory Local Law No. 20 Of 2007 (A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System), Hereinafter Known As Local Law Number 18 Of 2007

RESOLVED, that the Ulster County Legislature hereby finds and determines that: (a) it has considered the action, reviewed the Short Environmental Assessment Form for unlisted actions, reviewed the criteria set forth in 6 NYCRR section 617.7(c), thoroughly analyzed the relevant areas of potential environmental concern, and has duly considered all of the potential project environmental impacts and their magnitude in connection with the proposed Local Law; (b) the project, to wit: the adoption by the Ulster County Legislature will not result in any large and important environmental impacts, and, therefore, is one which will not have a significant impact on the environment, and, therefore, a negative declaration will be prepared; and (c) the reasons supporting this determination are set forth on Part 2 of the Short Environmental Assessment Form with respect to this project (a copy of which said form is on file in the Office of the Clerk of the Ulster County Legislature), and

FURTHER RESOLVED, that the County of Ulster as Lead Agency with reference to the above-described project, hereby: (a) adopts a negative declaration pursuant to 6 NYCRR section 617.7 with respect to the project; (b) authorizes the Chairman of the Ulster County Legislature to sign a negative declaration determination of non-significance with respect to the Local Law; and (c) authorizes the Clerk of the Ulster County Legislature to forward a copy of said negative declaration determination of non-significance to the appropriate agencies, and

FURTHER RESOLVED, that Introductory Local Law No. 20 herein is hereby adopted by the Ulster County Legislature, and hereinafter known as Local Law Number 18 of 2007,

and moves its adoption.

ADOPTED BY THE FOLLOWING VOTE:

AYES: 27 NOES: 0
(Absent: Legislators Aiello, Every, Fabiano,
Felicello, Roberti and Stoeckeler)

FINANCIAL IMPACT:

\$300.00 – APPROXIMATE ADVERTISING COSTS

1224

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York, Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

BE IT ENACTED, by the County Legislature of the County of Ulster, as follows:

SECTION 1. PURPOSE/INTENT AND FINDINGS.

The purpose of this law is to provide for the health, safety, and general welfare of the citizens of the County of Ulster through the regulation of stormwater and non-stormwater discharges, as regulated hereunder, to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and state law. This law establishes methods for controlling the introduction of pollutants into the MS4 in order for the County of Ulster to comply with requirements of the SPDES General Permit for Municipal Separate Storm Sewer Systems. Among the several purposes of this law are the following:

- a. To meet the requirements of the SPDES General Permit for Stormwater Discharges from MS4s, Permit no. GP-02-02 or as amended or revised;
- b. To regulate the contribution of pollutants to the MS4;
- c. To prohibit Illicit Connections, Activities and Discharges to the MS4;
- d. To establish legal authority to carry out all inspection, monitoring and enforcement procedures necessary to ensure compliance with this law; and
- e. To promote public awareness of the hazards involved in the improper discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, grease, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment and other pollutants into the MS4.

Based upon the Record had before this Legislature, the following findings are made in consideration of this Local Law:

- f. This Legislature finds and determines that the regulation of non-stormwater discharges to the County-owned municipal separate

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York, Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

storm sewer system, to the maximum extent practicable, is essential to protect the health, safety and general welfare of the citizens of Ulster County.

- g. This Legislature further finds and determines that controlling the introduction of polluted stormwater and non-storm water pollutants into the County-owned municipal separate storm sewer system is critical in order to comply with requirements of the State Pollution Discharge Elimination System General Permit No. GP-02-02 for Municipal Separate Storm Sewer Systems.
- h.. In addition to the enforcement processes and penalties provided herein, any condition caused or permitted to exist in violation of any of the provisions of this Local Law, which is deemed to be an imminent threat to public health, safety, and/or welfare, may further be declared and deemed a nuisance, and may be summarily abated or restored at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such violation and/or nuisance may be taken in accordance with the procedures set forth within this Local Law.
- i. This Local Law shall apply to all MS4 designated areas situated within the County of Ulster.

SECTION 2. DEFINITIONS.

Whenever used in this Local Law, unless a different meaning is stated in a definition applicable to only a portion of this Local Law, the following terms will be defined and shall have meanings set forth below:

AGRICULTURE: All agricultural operations and activities related to a "farm operation" as such term is defined in Section 301(11) of the Agricultural and Markets Law (AML) or governed by the AML of the State of New York and the guidelines and opinions issued by the New York State Commissioner of Agriculture and Markets to the extent that such practices are consistent with

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York, Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

6 NYCRR Section 663.2 and not excluded thereby.

AGRICULTURAL STORMWATER RUNOFF: Means any stormwater runoff from farm operations, and other non-point source agriculture and agricultural uses, but not discharges from concentrated animal feeding operations as defined in 40 CFR Section 122.23 or discharges from concentrated aquatic animal production facilities as defined in 40 CFR Section 122.24.

BEST MANAGEMENT PRACTICES (also referred to as BMPs): Schedules of activities, prohibitions of practices, general good house-keeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

CLEAN WATER ACT: The Federal Water Pollution Control Act (33 U.S.C. § 1251 *et seq.*), and any subsequent amendments thereto.

CONSTRUCTION ACTIVITY: Activities requiring authorization under the SPDES permit for stormwater discharges from construction activity, GP-02-01 and GP-02-02, as amended or revised. These activities include construction projects resulting in land disturbance of one or more acres unless otherwise excluded from regulation under GP-02-01 and/or GP-02-02. Such activities include but are not limited to clearing and grubbing, grading, excavating, and demolition.

COUNTY-OWNED MUNICIPAL SEPARATE STORM SEWER SYSTEM (also referred to as MS4): A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, manholes, gutters, ditches, man-made channels, or storm drains) owned or operated by the County of Ulster, which includes roads, infrastructure and facilities, designed or used for collecting or conveying stormwater, that is not a combined sewer, and which is not part of a Publicly Owned Treatment Works

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York, Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

(POTW) as defined at 40 CFR 122.2. A copy of a listing of County owned roads and properties shall be included herein as Exhibit "A" and a copy shall be kept on file with the Clerk of the Ulster County Legislature. Said listing shall include any and all new roadways and County owned properties as required under the MS4 Regulations.

DEPARTMENT: The New York State Department of Environmental Conservation.

DEPARTMENT OF PUBLIC WORKS: The Ulster County Department of Public Works is the County Department of which the Stormwater Management Office forms a part in accordance with the provisions of this Local Law.

DISCHARGE: Means any addition or introduction of any pollutant, stormwater, or any other regulated substance whatsoever into the municipal separate storm sewer system (MS4) or into waters of the United States.

EPA: The Environmental Protection Agency of the United States of America.

DISCHARGER: Means any person as defined herein, who causes, allows, permits, or is otherwise responsible for a discharge into a municipal storm sewer.

FACILITY: Any lands and appurtenances, including but not limited to, construction sites, required by the Federal Clean Water Act to have a permit to discharge stormwater associated with industrial activity and/or any other regulated activity.

FARM OPERATION: The land and on-farm buildings, equipment, manure processing and handling facilities, and practices which contribute to the production, preparation and marketing of crops, livestock and livestock products as a commercial enterprise. Such farm operation may consist of one or more parcels of owned or rented land, which parcels may be contiguous or noncontiguous to each other [See Section 301(11) of the Agriculture and Markets Law and the definition herein contained for "Agriculture"].

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York, Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

HAZARDOUS MATERIALS: Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

ILLICIT CONNECTIONS: Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the County-owned municipal separate storm sewer system, including but not limited to:

- a. Any conveyances as regulated under this Local Law which allow any non-stormwater discharge including treated or untreated sewage, process wastewater, and wash water to enter the County-owned municipal separate storm sewer system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by an authorized enforcement agency; or
- b. Any drain or conveyance connected from a commercial or industrial land use to the County-owned municipal separate storm sewer system that has not been (1) documented in plans, maps, or equivalent records and (2) lawfully approved by an authorized enforcement agency.

ILLICIT DISCHARGE: Any direct or indirect regulated non-stormwater discharge to the County-owned municipal separate storm sewer system, except as exempted in Section 6 of this Local Law.

ILLICIT DISCHARGE BOARD OF APPEALS: A County of Ulster appeals board consisting of, at minimum, one (1) representative of each of the following Departments and which representatives shall be appointed by the Department Heads of each of the Departments so designated:

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York, Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

a) The Department of the Environment; b) The Department of Health; and c) The Planning Department. Said board shall follow the procedures set forth within Section 15 of this Local Law.

INDUSTRIAL ACTIVITY: Activities requiring the SPDES permit for discharges from industrial activities except construction, GP-98-03, as amended or revised.

MUNICIPALITY OR COUNTY: The County of Ulster.

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4): The system of conveyances (including, but not limited to, sidewalks, roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) owned and/or operated and/or maintained by the County and designed or used for collecting or conveying stormwater.

NON-POINT SOURCE: Means any source of any discharge that is not a "point source".

NON-STORMWATER DISCHARGE: Any discharge to the County-owned municipal separate storm sewer system that is not composed entirely of stormwater.

OPERATOR: Means the party or parties that either individually or taken together meet the following two criteria: 1) They have operational control over the site activities (including the ability to make modifications in activities); and 2) they have such operational control to those activities at the site necessary to ensure compliance with SWPPP requirements and any related permit conditions.

PERSON: Any individual, association, organization, partnership, firm, company, corporation, trust, estate, governmental entity [including the County of Ulster], or other entity recognized by law and acting as either the owner or as the owner's agent. This term shall also include owners, operators, dischargers and all other entities as set forth within this Local Law.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York, Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

POINT SOURCE: Means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, fissure, container, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged and as regulated under this Local Law and/or the Clean Water Act.

POLLUTANT: Includes, but is not limited to, dredged spoil; solid waste; incinerator residue; sewage; garbage; sewage sludge; filter backwash; munitions; hazardous waste; chemical wastes; biological materials; toxic materials; radioactive materials; wrecked or discarded equipment; rock; sand; cellar dirt; and industrial, municipal, recreational, regulated, agricultural waste and other regulated wastes discharged into the municipal separate storm sewer system, which may cause or might reasonably be expected to cause pollution of the waters of the State in contravention of the standards, set forth within this Local Law and the Clean Water Act. [33 CFR Part 1251, et seq.].

PREMISES: Any building, structure, lot, parcel of land, or portion of land whether improved or unimproved, including adjacent sidewalks, parking strips, roadways and other appurtenances.

RELEASE: Means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of illicit discharges into surface water, ground-water, subsurface soils, surface soils and/or by any other direct or indirect discharge which is made to the municipal separate stormwater sewer system (MS4), the Water of New York State and/or the Waters of the United States.

SPECIAL CONDITION DISCHARGE COMPLIANCE WITH WATER QUALITY STANDARDS: The condition that applies where a municipality has been notified pursuant to this law that the discharge of stormwater authorized under its County-owned municipal separate storm sewer system permit may have caused, or has the reasonable potential to cause or contribute to, the violation of an applicable water quality standard. Under this condition the municipality must take all necessary actions to ensure future discharges do not cause or contribute to a violation of water quality standards.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

SPECIAL CONDITION 303(D) LISTED WATERS: The condition in the County-owned municipal separate storm sewer system permit that applies where the County-owned municipal separate storm sewer system discharges to a 303(d) listed water. Under this condition the County Stormwater Management Program must ensure no increase of the listed pollutant of concern to the 303(d) listed water.

SPECIAL CONDITION TOTAL MAXIMUM DAILY LOAD (TMDL) STRATEGY: The condition in the County-owned municipal separate storm sewer system permit where a TMDL, including requirements for control of stormwater discharges, has been approved by EPA for a waterbody or watershed into which the County-owned municipal separate storm sewer system discharges.

SPECIAL CONDITION: The condition in the County-owned municipal separate storm sewer system permit that applies if a TMDL is approved in the future by EPA for any waterbody or watershed into which a County-owned municipal separate storm sewer system discharges. Under this condition the municipality must review the applicable TMDL to see if it includes requirements for control of stormwater discharges. If an MS4 is not meeting the TMDL stormwater allocations, the municipality must, within six (6) months of the TMDL's approval, modify its stormwater management program to take all necessary actions to ensure that reduction of the pollutant of concern specified in the TMDL is achieved.

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (also referred to as SPDES): Stormwater Discharge Permit. A permit issued by the Department that authorizes the discharge of pollutants to waters of the State.

STORMWATER: Rainwater, surface runoff, snowmelt and drainage.

STORMWATER MANAGEMENT OFFICE: The County Office that is responsible for administering, enforcing and promulgating regulations and fees pursuant to this Local Law, upon adoption of this Local Law, said office shall be designated by the County Legislature as being a part of and organized as a Division of and under the County of Ulster Department of Public Works and the

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

Stormwater Management Officer shall be appointed by the department head of the Ulster County Department of Public Works. Budgetary, employment and other customary administrative procedures associated with the Stormwater Management Office shall be the responsibility of the Ulster County Department of Public Works.

STORMWATER MANAGEMENT OFFICER (also referred to as SMO): A person, persons, or other public official(s) designated by the Stormwater Management Office to monitor activities, inspect areas and enforce this Local Law. The Stormwater Management Officer may also be designated to accept, review, and inspect stormwater pollution prevention plans, among his/her other responsibilities.

STORMWATER POLLUTION PREVENTION PLAN: Means a plan required by a SPDES permit to discharge stormwater associated with regulated activities, including but not limited to industrial activities and construction, and which describes and provides for pollutants in stormwater discharges associated with regulated activities.

303(d) LIST: A list of all surface waters in the State for which beneficial uses of the water (drinking, recreation, aquatic habitat, and industrial use) are impaired by pollutants, prepared periodically by the Department as required by Section 303(d) of the Clean Water Act. 303(d) listed waters are estuaries, lakes and streams that fall short of State surface water quality standards and are not expected to improve within the next two years.

TOTAL MAXIMUM DAILY LOAD (also referred to as TMDL): The maximum amount of a pollutant to be allowed to be released into a waterbody so as not to impair uses of the water, allocated among the sources of that pollutant.

WASTEWATER: Any water that is not stormwater, is contaminated with pollutants and is or will be discarded. This term shall not include stormwater which is not contaminated by pollutants.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

SECTION 3. APPLICABILITY.

This Local Law shall apply to all water entering the County-owned municipal separate storm sewer system within MS4 designated areas as generated on any developed and undeveloped lands unless explicitly exempted hereunder or unless explicitly exempted by the Department acting as the authorized enforcement agency.

SECTION 4. RESPONSIBILITY FOR ADMINISTRATION.

The Stormwater Management Officer (SMO) shall administer, implement, and enforce the provisions of this Local Law. Such powers granted or duties imposed upon and granted to the authorized enforcement official may be delegated in writing by the Stormwater Management Officer as may be authorized by the Stormwater Management Office. Such written delegation shall be kept and maintained within the Stormwater Management Officer's files and copies shall further be provided by the Stormwater Management Officer to the County Attorney. The Stormwater Management Office shall possess the authority to promulgate rules and regulations as necessary to administer, enforce and forward this Local Law and its purposes, including but not limited to, the institution and use of permits, forms, fees and other regulatory mechanisms to advance the purposes of this Local Law.

SECTION 5. PROHIBITION OF ILLEGAL DISCHARGES.

No person shall discharge or cause to be discharged into the County-owned municipal separate storm sewer system any materials other than lawful discharges of stormwater, except as provided in Section 6. The commencement, conduct or continuance of any illegal discharge to the County-owned municipal separate storm sewer system is prohibited except as described in Section 6.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

SECTION 6. DISCHARGE EXEMPTIONS.

- a. The following discharges are exempt from discharge prohibitions established by this Local Law, unless the Department or the County has, pursuant to law, officially determined such discharges to be substantial contributors of pollutants: water line flushing or other potable water sources, landscape irrigation or lawn watering, existing diverted stream flows, rising ground water, uncontaminated ground water infiltration to storm drains, uncontaminated pumped ground water, foundation or footing drains, crawl space or basement sump pumps, air conditioning condensate, irrigation water, springs, water from individual residential car washing, natural riparian habitat or wetland flows, dechlorinated swimming pool discharges, residential street wash water, water from fire fighting activities, agricultural stormwater runoff from lawful agricultural practices and any other water source not containing pollutants. In no event shall this Local Law be read to create, permit or authorize agriculture discharge exemptions beyond those which are in effect pursuant to the Clean Water Act.
- b. Discharges approved in writing by the Stormwater Management Officer to protect life or property from imminent harm or damage, provided that, such approvals shall not be construed to constitute compliance with other applicable laws and requirements, and further provided that such discharges may be permitted for a specified time period and under such conditions as the Stormwater Management Officer may deem appropriate to protect such life and property while reasonably maintaining the purpose and intent of this Local Law.
- c. Dye testing in compliance with applicable State and local laws.
- d. The prohibition shall not apply to any discharge permitted under a SPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the Department, provided that the discharger is in full compliance with all

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the County-owned municipal separate storm sewer system. A lawfully issued SPDES permit shall constitute compliance with this sub-paragraph in all manner and respects, provided the person and/or discharger to which the permit is issued is fully compliant therewith.

- e. Activities and uses essential to ensure emergency police, fire, rescue functions and emergency response undertaken by either the County, or by a non-profit organization authorized by contract with the County to provide these public services. Essential activities to promote public health, safety, and well-being of persons and property therein, and to implement orders and regulations of the Ulster County Department of Health, the Ulster County Emergency Management Agency and/or the New York State Department of Health with notification to the County Stormwater Management Officer and any actual and ongoing emergency activity which directly addresses an imminent threat to life, property or structures of any kind. Such emergency activities may include, but are not limited to: fire suppression operations, preventative or remedial activities related to mitigation, cleanup, or control of stormwater and/or the contamination or threatened contamination of ground and/or surface water; response to imminent floods, hurricanes and all other storms that follow established emergency response plans, fire fighting and public health emergencies.

SECTION 7. PROHIBITION OF ILLICIT CONNECTIONS.

The construction, use, maintenance or continued existence of illicit connections to the County-owned municipal separate storm sewer system is prohibited. This prohibition expressly includes, without limitation, connections made in the past, regardless of whether the connection was permissible under law and whether all lawful approvals were granted and/or regardless of whether the connection was previously unregulated pursuant to practices applicable or prevailing at the time of connection. A person is considered to be in violation of

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

this Local Law if the person illegally connects a line conveying sewage to the County-owned municipal separate storm sewer system, or allows such an illegal connection to continue.

SECTION 8. PROHIBITION AGAINST ACTIVITIES CONTAMINATING STORMWATER.

- a. Activities are prohibited that cause or contribute to a violation of the County-owned municipal separate storm sewer system MS4 SPDES permit or cause or contribute to the County being subject to the Special Conditions as defined in Section 2 of this Local Law.
- b. Upon written notification to a person that they are engaged in activities that cause or contribute to violations of the County-owned municipal separate storm sewer system SPDES permit authorization, that person shall, upon receipt of such notice, immediately take all reasonable actions to correct such activities such that they no longer cause or contribute to violations of the County's MS4 SPDES permit authorization.

SECTION 9. REQUIREMENT TO PREVENT, CONTROL AND REDUCE STORMWATER POLLUTANTS BY THE USE OF BEST MANAGEMENT PRACTICES.

- a. Where the Stormwater Management Officer has identified illicit discharges as defined in Section 2 or by way of activities contaminating stormwater as defined in Section 8, the County may, among other remedies as set forth within this Local Law, require the implementation of Best Management Practices (BMPs) to control those illicit discharges and activities.
- b. The owner or operator of a commercial or industrial establishment shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

County-owned municipal separate storm sewer system through the use of structural and non-structural BMPs.

- c. Any owner, discharger or operator, or other person responsible for a property or premises, which is or may be, the source of an illicit discharge as defined in Section 2 or an activity contaminating stormwater as defined in this Local Law, may be required to implement, at said person's expense, additional structural and non-structural BMPs to reduce or eliminate the source of pollutant(s) to the County-owned municipal separate storm sewer system.
- d. Compliance with all terms and conditions of a valid SPDES permit authorizing the discharge of stormwater associated with industrial and/or other regulated activities, shall be deemed compliance with the provisions of this section.

SECTION 10. SUSPENSION OF ACCESS TO COUNTY-OWNED MUNICIPAL SEPARATE STORM SEWER SYSTEM. ILLICIT DISCHARGES IN EMERGENCY SITUATIONS.

- a. Imminent danger. The Stormwater Management Officer may, without prior notice, suspend County-owned municipal separate storm sewer system discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and/or substantial danger to the environment, to the health or welfare of persons, or to the County-owned municipal separate storm sewer system. The Stormwater Management Officer shall notify the person of such suspension within a reasonable time thereafter in writing of the reasons for the suspension. If the violator fails to comply with a suspension order issued in an emergency, the Stormwater Management Officer may take such steps as deemed necessary to prevent or minimize damage to the County-owned municipal separate storm sewer system or to minimize and abate any and all danger to persons.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

- b. Suspension due to the detection of illicit discharge. Any person discharging to the County-owned municipal separate storm sewer system in violation of this Local Law may have their County-owned municipal separate storm sewer system access terminated if such termination would abate or reduce an illicit discharge. The Stormwater Management Officer will notify an alleged violator in writing of the proposed termination of its County-owned municipal separate storm sewer system access and the reasons therefor. Within fifteen (15) days of the issuance of such Notice, the alleged violator may petition the Stormwater Management Officer for a reconsideration and hearing. Access to the MS4 may be granted by the Stormwater Management Officer if he/she finds that the illicit discharge has ceased and the discharger has taken steps to prevent its recurrence. Access to the MS4 may be denied if the Stormwater Management Officer determines in writing that the illicit discharge has not ceased or is likely to recur. A person commits an offense if the person reinstates County-owned municipal separate storm sewer system access to premises terminated pursuant to this Section, without the prior approval of the Stormwater Management Officer, or a court of competent jurisdiction.

SECTION 11. INDUSTRIAL OR CONSTRUCTION ACTIVITY DISCHARGES.

Any person subject to an industrial or construction activity SPDES stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form reasonably acceptable to the Stormwater Management Officer prior to the allowing of discharges to the County-owned municipal separate storm sewer system. Upon such proof being provided, the Stormwater Management Officer shall render his/her determination as to acceptability and shall provide the person with a written confirmation of such determination.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

SECTION 12. ACCESS AND MONITORING OF DISCHARGES.

- a. Applicability. This section applies to all facilities that the Stormwater Management Officer must inspect to enforce any provision of this Local Law, or whenever the authorized enforcement agency has probable cause to believe that there exists, or potentially exists, in or upon any premises, any condition that constitutes a violation of this Local Law.
- b. Access to Facilities. Upon compliance with the requirements of this Local Law, the Stormwater Management Officer shall be permitted to enter and inspect facilities subject to regulation under this Local Law as often as may be necessary to determine compliance with this Local Law. If a discharger has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the reasonable and necessary arrangements to allow access to the Stormwater Management Officer.
 1. Facility operators shall allow the Stormwater Management Officer ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records as may be required to implement this Local Law.
 2. Unreasonable delays in allowing the County access to a facility subject to this Local Law is a violation of this Local Law. A person who is the operator or owner or discharger of a facility subject to this Local Law commits an offense if the person denies the Stormwater Management Officer reasonable access to the facility for the purpose of conducting any activity authorized or required by this Local Law.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

3. If the Storm water Management Officer has been refused access to any part of the premises from which stormwater is discharged, and he/she is able to demonstrate probable cause to believe that there may be a violation of this Local Law, or that there is a need to inspect and/or sample as part of such inspection and sampling program designed to verify compliance with this Local Law or any order issued hereunder, then the Stormwater Management Officer may seek issuance of a search warrant from a any court of competent jurisdiction.
- c. **Monitoring.** Following an y adjudicated violation of this Local Law, the County shall have the right to set up on any facility subject to this Local Law s uch devices as are necessary in the reasonable determination of the Storm water Management Officer to conduct monitoring and/or sampling of the facility's stormwater discharge. In connection therewith, the County has the right to require the facilities subject to this Local Law to install monitoring equipment as is reasonably necessary to determine compliance with this Local Law. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger or the owner at its own expense. All devices used to measure stormwater flow and quality shall be properly calibrated to ensure their accuracy and proof of such calibration shall be furnished to the Stormwater Management Officer following request therefor.

SECTION 13. NOTIFICATION OF SPILLS.

Notwithstanding any other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation, has information of any known or suspected release of

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

materials which are resulting or may result in illicit discharges or pollutants discharging into the County-owned municipal separate storm sewer system, said person shall take such necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials said person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services and/or the County Stormwater Management Officer. In the event of a release of non-hazardous materials, said person shall notify the County Stormwater Management Officer in person or by telephone or facsimile no later than the next business day. Notifications in person or by telephone shall be confirmed by written notice addressed and mailed to the County within three (3) business days of the telephone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be promptly provided to the Stormwater Management Officer and such records shall be retained on site for at least five (5) years.

SECTION 14. ENFORCEMENT.

When the County's Stormwater Management Officer determines that a person has violated a prohibition or failed to meet a requirement of this Local Law, he/she may order compliance by written notice of violation to the owner and the discharger, if different than the owner, as the alleged responsible person. Such notice and/or subsequent enforcement remedies may require without limitation:

- a. The elimination of illicit connections or discharges;
- b. That violating discharges, practices or operations shall cease and desist;
- c. The abatement and/or remediation of storm water pollution or contamination hazards and the restoration of any affected property;
- d. The performance of monitoring, analyses and reporting;

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

- e. Payment of a fine; and/or recoupment of all quantified County expenditures as necessary to abate the violation.
- f. The implementation of source control or treatment BMPs. If abatement of a violation and/or restoration of affected property is ultimately required, written confirmation shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work may be undertaken and completed by a designated County governmental agency or a County retained contractor and all expenses thereof shall be charged to the discharger and/or the owner as the violator.
- g. Order that all permits, approvals and/or authorizations be obtained, if lawfully permitted by statute, for any continuing discharges, practices and/or operations; and

Prior notice shall not be required in the event the Stormwater Management Officer reasonably determines that an imminent threat to life may exist as a result of the violation of this Local Law.

SECTION 15. APPEAL OF NOTICE OF VIOLATION.

- a. Procedure. Any person receiving a Notice of Violation may appeal the determination of the Stormwater Management Officer within 15 days of its issuance. Said appeal shall be filed with the Stormwater Management Officer who shall transmit his original findings, and the appeal to the Illicit Discharge Board of Appeals, which shall consist of one representative of each of the following County Departments: a) The Department of the Environment; b) The Department of Health; c) The Planning Department. Such board members shall be appointed by the department heads of each of the foregoing agencies. The Illicit Discharge Board of Appeals shall hear the appeal within 30 days after the filing of the appeal, and within five (5) days of making its written decision, file its decision in

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

the office of the County Clerk and mail a copy of its decision by certified mail to the discharger.

- b. Relief. Persons who may be individually, jointly or severally aggrieved by any determination made by the Stormwater Management Officer and/or the Appeals Board may apply to the Supreme Court of the State of New York for review of such decision under Article 78 of the Civil Practice Laws and Rules of the State of New York.

SECTION 16. CORRECTIVE MEASURES AFTER APPEAL.

- a. If an appeal under this Local Law has been pursued and the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, which has been administratively adjudicated under this Local Law, then within five (5) business days of the decision of the County authority upholding the decision of the Stormwater Management Officer, the Stormwater Management Officer shall request the owner's permission for access to the subject private property to take any and all measures reasonably necessary to abate the violation and/or restore the property.
- b. If refused access to the subject private property, the Stormwater Management Officer may seek a warrant in a court of competent jurisdiction to be authorized to enter upon the property, make any and all determinations which are authorized pursuant to this Local Law. Upon determination that a violation has occurred, and/or is continuing, the Stormwater Management Officer may seek a court order to take any and all measures reasonably necessary to abate the violation and/or restore the property. The cost of implementing and maintaining such measures shall be the sole responsibility of the discharger as set forth within Section 14.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

- c. Nothing in this section shall be read to limit, abrogate or otherwise affect the authority possessed by the Stormwater Management Officer pursuant to Section 10(a) of this Local Law.

SECTION 17. PENALTIES.

A. Administrative Sanctions.

- 1. Any person who violates the provisions of this Local Law, including any provision of any authorization issued, any condition set or fee required pursuant to this Local Law, shall be liable to the County of Ulster for a civil penalty of not more than \$3,000.00 (Three Thousand Dollars) for every such violation. Each consecutive day of the violation will be considered a separate offense. Such civil penalty may be recovered in any action brought by the County at the request and in the name of the County in any court of competent jurisdiction. Such civil penalty may be released or compromised by action of the County and any action commenced to recover the same may be settled and discontinued by the County. Any such penalty of the County shall be enforceable in an action brought in any court of competent jurisdiction. Any civil penalty or order issued by the County pursuant to the criteria set forth herein shall be reviewable in a proceeding pursuant to Article 78 of the State Civil Practice Law and Rules.

B. Criminal Sanctions.

- 1. Any person who violates the provisions of this Local Law, including any provision of any authorization issued, any condition set or fee required pursuant to this Law, shall, in addition, for the first offense, be guilty of violation punishable by a fine of not less than \$500.00 (Five Hundred Dollars) and not more than \$1,000.00 (One Thousand Dollars); for a second and

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

each subsequent offense he/she shall be guilty of a misdemeanor punishable by a fine of not less than \$1,000.00 (One Thousand Dollars) nor more than \$2,000.00 (Two Thousand Dollars) or a term of imprisonment of not less than 30 (thirty) days or more than 6 (six) months or both. Each violation shall be deemed a separate and distinct offense, and in the case of continuing violation, each day in continuance thereof shall be deemed a separate and distinct offense.

- C. Final Determination/Costs.
1. In addition to the foregoing remedies, any person who violates the provisions of this Local Law and is found guilty by a final administrative determination and/or a final adjudicated determination by a Court of competent jurisdiction shall be responsible for paying over to and reimbursing the Stormwater Management Office for all quantified costs, penalties and/or fines as may result from, or be imposed by, the Department, the EPA and/or any other enforcement agency pursuant to the Clean Water Act, the SPDES Regulatory and/or any other applicable statutory authority for such violation.

SECTION 18. INJUNCTIVE RELIEF.

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Local Law. If a person has violated or continues to violate the provisions of this Local Law, the Stormwater Management Officer may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement and/or remediation of the violation, and/or for such other further relief as any court of competent jurisdiction may order.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

SECTION 19. ALTERNATIVE REMEDIES.

- a. Where a person has been charged with violations of this Local Law and/or when a person has been determined to have violated a provision of this Local Law, he/she may be eligible for alternative remedies in lieu of a civil and/or criminal penalty, upon written recommendation of the County Attorney and concurrence of the Stormwater Management Officer, where a written determination is made that:
 1. the violation was unintentional;
 2. the violator has no history of previous violations of this Local Law;
 3. any environmental damage was minimal;
 4. the violator acted quickly to remedy violation; and
 5. the violator cooperated in investigation and resolution.

- b. Alternative remedies may consist of one or more of the following:
 1. Attendance at Stormwater Management compliance workshops.
 2. Storm drain stenciling and/or storm drain marking.
 3. Participation in community outreach programs concerning stormwater management. In the event of non-compliance with the foregoing alternative remedies, the County reserves the right to enforce any and all provisions of this Local Law.

SECTION 20. REMEDIES NOT EXCLUSIVE.

The remedies listed in this Local Law are not exclusive of any other remedies available under any applicable Federal, State or Local Law and it is within the discretion of the Stormwater Management Office. Nothing in this Local Law shall be read to preclude the enforcement by the County of Ulster of any other laws as may be applicable to illicit discharges, including but not limited

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

to, statutory authorizations as set forth within the New York State Highway Law, the New York State County Law and the New York State Public Health Law.

SECTION 21. ANNUAL REVIEW.

The Stormwater Management Officer shall submit an annual report to the County Legislature not later than the first day of November of each year, concerning the administration, efficacy and enforcement of this Law. Such reports and recommendations shall assist the County to monitor and evaluate the extent to which the intent and purpose of this Local Law have been served.

SECTION 22. COMPLIANCE WITH STATE ENVIRONMENTAL QUALITY REVIEW ACT.

This Local Law has been duly reviewed and a determination as to significance upon the environment and associated Findings have been rendered by the County in accordance with SEQRA prior to this Law's adoption by the County [6 NYCRR Part 617, et seq].

SECTION 23. CONFLICT WITH OTHER REGULATIONS.

Where the standards and legal requirements of this Law are in conflict with other environmental and/or land use regulations, and/or other environmental protective measures, the more restrictive standards and legal requirements shall apply.

SECTION 24. SEVERABILITY.

If any article, section, subsection, paragraph, phrase or sentence of this Local Law is for any reason held invalid or unconstitutional by any court of competent jurisdiction, that portion shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining portion hereof.

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

SECTION 25. GOVERNING LAW.

This Local Law shall be interpreted under, construed by and governed pursuant to the Laws of the State of New York.

SECTION 26. EFFECTIVE DATE.

This Local Law shall take effect immediately.

Adopted: December 12, 2007

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

Exhibit A

COUNTY PROPERTIES WITHIN THE MS4 AREA

Building Name	Address	Property by SBL	Within Municipality of
Information Services	27 South Manor Avenue	48.82-1-34	City of Kingston
Carr Building	1 Pearl Street	48.331-5-20	City of Kingston
Hutton Building	Golden Hill Lane	56.40-1-19	City of Kingston
Persen House	74 John Street	48.331-7-1	City of Kingston
Flatbush Annex	300 Flatbush Ave	48.74-3-14.100	City of Kingston
Probation Building	17 Pearl Street	48.331-5-16	City of Kingston
Public Works Building	313-317 Shamrock Lane	48.79-1-1	City of Kingston
Court House	285 Wall Street	48.331-7-5	City of Kingston
Ulster Avenue Office Complex	Development Court	48.66-1-6	Town of Ulster
U.C Probation Department	733 Broadway 1 Danny Circle, Golden Hill	56.92-2-19.111	City of Kingston
U.C.A.T	Hill	56.40-1-19	City of Kingston
Mental Health Building	Golden Hill Drive	56.40-1-19	City of Kingston
Infirmery	Golden Hill Drive	56.40-1-19	City of Kingston
Health Related Facility	Golden Hill Drive	56.40-1-19	City of Kingston
Ulster County Jail	Golden Hill Drive	56.40-1-19	City of Kingston
U.C Law Enforcement Center	380 Boulevard	56.48-2-6	City of Kingston
Community Correctional Facility	Golden Hill Drive	56.40-1-19	City of Kingston
Emergency Management	Golden Hill Drive	56.40-1-19	City of Kingston
Ulster County Office Building	244 Fair Street	48.331-5-1	City of Kingston
U.C Record Storage	300 Foxhall Avenue	48.82-1-27	City of Kingston
UC Highland Substation	171 Chapel Hill Rd	95.2-6-13	Town of Lloyd

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

ROAD LIST WITHIN MS4 AREA

COUNTY ROAD #	COUNTY ROAD NAME	MILEAGE	TOWN	CATCH BASIN
89	Malden Tpk.	1.0	Saugerties	22
32	Kings Highway	0.5	Saugerties	4
118	Glasco Tpk.	1.5	Saugerties	47
34	Glasco Tpk.	1.6	Saugerties	6
33	Kings Highway	1.5	Saugerties	8
41	Leggs Mill Rd.	3.0	Ulster	11
90	Sawkill Rd.	0.1	Ulster	0
42, 10	Sawkill Rd.	1.0	Ulster/Kingston	17
157	Boices Lane	0.9	Ulster	47
152	Kukuk Lane	0.7	Ulster	1
124	Ulster Avenue	0.2	Esopus	0
151	Hurley Ave. Ext.	3.0	Ulster/Hurley	45
94	Zendhoak/DeWitt Mills Rd.	3.5	Hurley	17
50	Lucas Ave. Ext.	3.4	Ulster/Hurley	14
59	Lucas Tpk.	0.6	Rosendale	0
123	Lucas Tpk.	0.7	Rosendale	0
147	Kallop Rd.	0.5	Rosendale	0
8	Hurley Mtn. Rd.	0.1	Hurley	2
65	DeWitt Lake Rd.	1.5	Ulster/Rosendale	0
153	Eddyville Mountain Rd.	0.6	Ulster	0
146	Eddyville-Creek Locks Rd.	1.5	Ulster/Rosendale	0
73	Bloomington-Creek Locks-Rosendale Rd.	3.8	Rosendale	11
57	New Salem St.	0.7	Esopus	28
81	River Rd.	0.5	Esopus	4
113	Elting Rd.	1.5	Rosendale	28
18A	Springtown Rd.	0.6	Rosendale	12
11	South St.	0.6	Lloyd	3
159	New Paltz Rd.	3.3	Lloyd	20
84	Riverside Rd	1.4	Lloyd	3
24A	Tuckers Corners Rd.	0.3	Plattekill	0
67	Pancake Hollow Rd	0.3	Plattekill/Lloyd	0
116	Crescent Ave.	0.1	Plattekill/Lloyd	1
55	Orchard Rd.	0.8	Marlborough/Lloyd	3
108	Chapel Hill Rd.	1.1	Lloyd	15
16	Milton Tpk.	0.1	Marlborough	0
119	Milton-Milton Landing Rd.	0.1	Marlborough	5

Local Law Number 18 Of 2007

County Of Ulster

A Local Law Of The County Of Ulster, New York Prohibiting Illicit Discharges, Activities And Connections To The Ulster County Separate Storm Sewer System

85	Lattintown Rd.	1.2	Marlborough	4
17	Lattintown Rd.-Western Ave.	1.5	Marlborough	43
69	Marlborough-Plattekill Rd.	2.3	Marlborough	11
25	Plattekill-Ardonia Rd.	1.0	Plattekill	2
112	Plains Rd.	0.8	Shawangunk	0
122	Wallkill Ave.	0.1	Shawangunk	15
Total mileage within the MS4 area		49.5	Ulster County	449

BRIDGE LIST WITHIN THE MS4 AREA

BRIDGE NO.	NAME	FEATURE CROSSED	TOWN	ROAD NAME
30	Mt. Marion	Plattekill Creek	Ulster/Saugerties	Leggs Mill Rd. (Co.Rd.41)
70	Sauer	Esopus Creek	Saugerties	Glasco Tpk. (Co.Rd.34)
77	Conyes	Plattekill Creek	Saugerties	Snyder Rd. (Town Rd.)
179	Bert Law	Plattekill Creek	Saugerties	Glasco Tpk. (Co.Rd.34)
152	Leggs Mill	Esopus Creek	Ulster	Leggs Mill Rd. (Co.Rd.41)
169	Sawkill School	Sawkill Creek	Ulster	Sawkill Rd. (Co.Rd.42)
149	Sawkill Church	Sawkill Creek	Kingston	Sawkill Rd. (Co.Rd.10)
74	Hurley	Esopus Creek	Hurley	Wynkoop Lane (Co.Rd.8)
71	Port Ewen	Mill Brook	Esopus	Salem St. (Co.Rd.57)
143	Rosendale	Rondout Creek	Rosendale	Elting Rd. (Co.Rd.113)
206		Abandoned RR ROW - West	Lloyd	Old New Paltz Rd. (Co.Rd.159)
207		Abandoned RR ROW - East	Lloyd	Old New Paltz Rd. (Co.Rd.159)
127	Wallkill	Wallkill River	Shawangunk	Hoagerburgh Rd. (Co.Rd.70)

Ulster County

Illicit Discharge Detection & Elimination Procedure

As required by New York State Department of Environmental Conservation (DEC) *SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s) Permit No. GP-02-02* and subsequently issued permits, MS4s must have a procedure to detect and eliminate illicit discharges to the storm drainage system operated and maintained by the municipality within the designated MS4 area. This procedure is divided into the following steps:

1. Reporting
2. Investigation
3. Remediation
4. Follow-up

1. Illicit discharge reporting procedure:

- a. All field personnel of Ulster County Department of Public Works receive IDDE training. Upon finding suspected illicit discharges, employees in the Highway Department notify their Section Supervisor. The Supervisor completes the Ulster County Stormwater Incident Report Sheet and forwards it to the Stormwater Management Specialist (SWMS).
- b. In Buildings & Grounds (B&G), personnel at each building site conduct monthly monitoring at each location. Additionally, all drainage structures on County grounds are inspected annually. Any problems discovered are reported to the B&G Maintenance Coordinator and the SWMS.
- c. For suspected illicit discharges discovered during outfall monitoring, Department of the Environment Field Resource Technician fills out Incident Report and submits it to the SWMS.
- d. For all referrals from the Stormwater Hotline, Stormwater e-mail, B&G personnel, or other sources, the SWMS fills out the Report Sheet.
- e. The SWMS maintains an IDDE log of all reported incidences including date incident was reported, location, description of discharge, any action taken, and current status.

2. Investigation:

- a. The SWMS or the Environmental Resource Technician conducts the preliminary investigation.
- b. If septic, sewage, or grey water discharges are suspected, the investigator refers the incident to the Ulster County Health Department. The Health Department then uses dye testing or other means to determine if the assumed illicit discharge has originated from a sanitary sewer failure, cross connection, failed septic system, or other source. If they have negative findings (not sewage) they refer the incident back to the SWMS for further determination.
- c. If oil, grease, or other potentially hazardous spill or dumping is suspected (in quantities of five gallons or greater) the investigator contacts the DEC spill response hotline. The DEC will issue a spill number for future reference.
- d. The SWMS as the Stormwater Management Officer (SMO) has the jurisdiction under **Local Law Number 18 of 2007, County of Ulster, A Local Law of the County of Ulster New York Prohibiting Illicit Discharges, Activities and Connections to the Ulster County Separate Storm Sewer System** (Local Law #18) to investigate discharges to the County storm drainage system.

3. Remediation

- a. The Health Department is responsible for the resolution of all cases involving sewage or septage. The SWMS is to be kept informed of all findings and actions taken.
- b. The DEC's Department of Solid Waste and Hazardous Materials conducts appropriate enforcement actions on spill cases referred to it.
- c. The SWMS takes the necessary actions to eliminate all other illicit discharges as allowed under Local Law #18

4. Follow-up

- a. The SWMS collects the information from Ulster County Health Department and from the DEC about their determination with regards to the assumed illicit discharges and actions that have been taken.
- b. The SWMS is responsible for tracking all reported illicit discharges from first report through incident resolution.

Draft

Reported by:		
Date:	County Rd#:	Town:
Time:	Rd Name:	

Directions to source: Be specific enough so investigator can relocate source by following these.

Notes:

Temp/Rainfall	24hrs prev.	day temp(f)	rain inches
	48 hrs. prev.	day temp(f)	rain inches

Surrounding area land use: check all that apply

<input type="checkbox"/>	Industrial	<input type="checkbox"/>	Residential	<input type="checkbox"/>	Commercial	<input type="checkbox"/>	Wooded
<input type="checkbox"/>	Rural	<input type="checkbox"/>	Suburban	<input type="checkbox"/>	Institutional	<input type="checkbox"/>	Open Space
<input type="checkbox"/>	Agricultural	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

Indicator(s)

<input type="checkbox"/>	odor	<input type="checkbox"/>	suds	<input type="checkbox"/>	debris
<input type="checkbox"/>	oil slick	<input type="checkbox"/>	turbidity	<input type="checkbox"/>	sediment
<input type="checkbox"/>	water color - specify				

Was active discharge observed?

<input type="checkbox"/>	Yes	<input type="checkbox"/>	No		
<input type="checkbox"/>	trickle	<input type="checkbox"/>	moderate	<input type="checkbox"/>	heavy

Source Description:

Pipe

<input type="checkbox"/>	metal	<input type="checkbox"/>	plastic	<input type="checkbox"/>	other
<input type="checkbox"/>	single	<input type="checkbox"/>	multiple(number)		
<input type="checkbox"/>	On surface	<input type="checkbox"/>	Submerged	<input type="checkbox"/>	Size estimate:

Ditch

<input type="checkbox"/>	dirt	<input type="checkbox"/>	vegetation	<input type="checkbox"/>	rip rap
<input type="checkbox"/>	cobble	<input type="checkbox"/>	gravel	<input type="checkbox"/>	concrete
<input type="checkbox"/>	paved				
size estimate: (WidthxDepth) W D					

Container

<input type="checkbox"/>	drum/barrel(s)	<input type="checkbox"/>	metal	<input type="checkbox"/>	plastic
<input type="checkbox"/>	other (specify)				

GATEHOUSE USE ONLY:	Received:	entered to system:	Faxed to Health Dep:
----------------------------	-----------	--------------------	----------------------

Action taken by Health Dept.:

Date of action:	Result:
------------------------	----------------

Proposed Remedy:

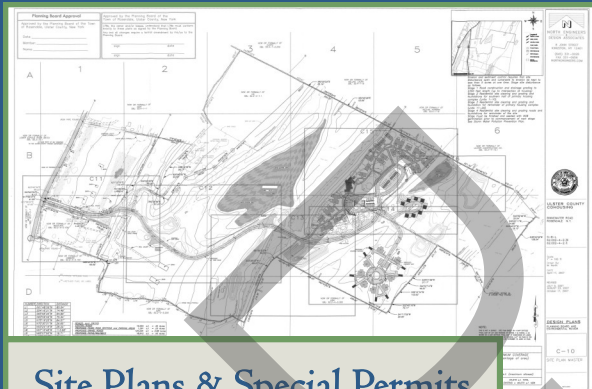
Date remedy information received by Highways and Bridges:

--	--

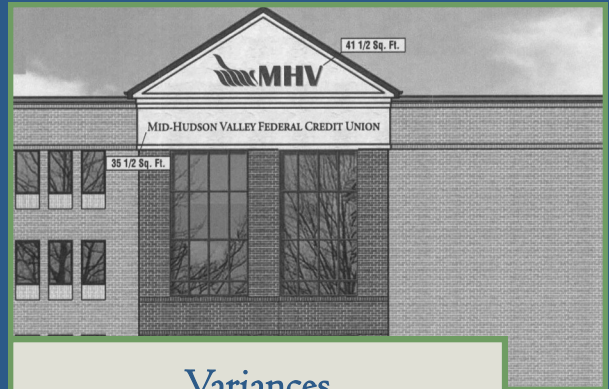


**Appendices C1-C3:
Construction and Post-Construction SWPPP
Review and Referral**

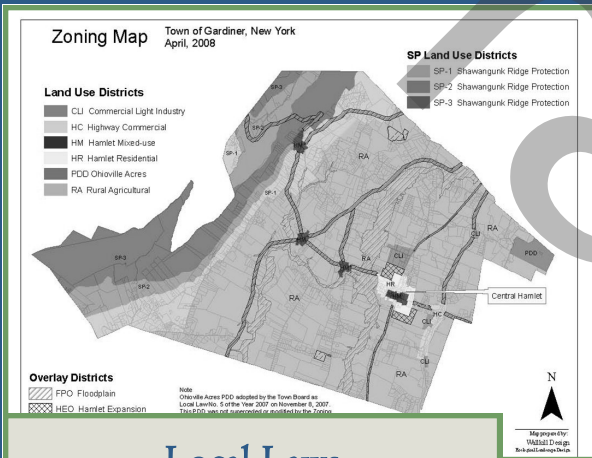
Land Use Referral Guide



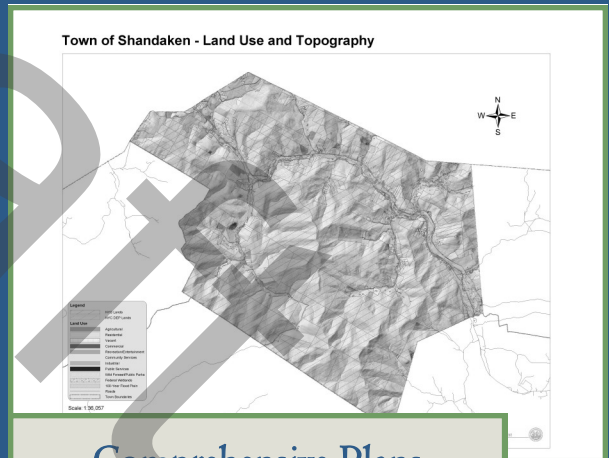
Site Plans & Special Permits



Variances



Local Laws



Comprehensive Plans

Ulster County



Planning Board

November 2008

Acknowledgements

The Ulster County Planning Board's Referral Guide was developed by staff with the input of the Referral Guide Subcommittee and the Planning Board itself. We gratefully acknowledge all those who participated in the creation of this guide.

Ulster County Planning Board Staff: Guide Management Team

Dennis Doyle - Project Director
Robert Leibowitz, AICP - Project Manager, Author
Jennifer Schwartz Berky - "Ulster County Comprehensive Planning: How UCPB Policies Relate to Referrals"
Virginia Craft, Marianne Davis, Burt Samuelson - Proofreading

Ulster County Planning Board: Referral Guide Technical Committee

Toni Hokanson
Richard Praetorius
Robert Pritchard

The Ulster County Planning Board

Toni Hokanson, Chairperson, Town of New Paltz
Elizabeth Hooper, Vice Chairperson, Village of Ellenville
Robert Oakes, Secretary, Town of Olive
Harry Anderson, Town of Hurley
Melinda Beuf, Town of Gardiner
Lisa Biggin, Town of Marlborough
Renno Budziak, Town of Ulster
Ruth Elwell, Village of New Paltz
Stephen Finkle, City of Kingston
Fred Greitzer, Town of Rosendale
Keith Holmquist, Town of Shandaken
Stanley Hudson, Town of Rochester

John Konior, Town of Kingston
Dominick Martorana, Town of Lloyd
Georgine Matichuk, Town of Wawarsing
Todd Natale, Town of Marbletown
Roxanne Pecora, Town of Esopus
Richard Praetorius, Town of Saugerties
Robert Pritchard, City of Kingston
Mark Watkins, Town of Shawangunk
Thomas Wilkin, Town of Plattekill
Anita Yuran, Town of Woodstock

The Ulster County Planning Board Referral Guide was approved by the Ulster County Planning Board on November 5th, 2008.

Photo Credits: All Photos provided by the Ulster County Planning Board Staff

If you have any questions, comments, or concerns, please contact either:

Dennis Doyle, Director:

845-340-3339
ddoy@co.ulster.ny.us

Robert A. Leibowitz, AICP Principal Planner:

845-340-3337
rlei@co.ulster.ny.us

Mailing Address:

Ulster County Planning Board
244 Fair Street
P.O. Box 1800
Kingston, NY 12402

Main Phone: 845-340-3340

Fax: 845-340-3429

An electronic version of this report is available at <http://www.co.ulster.ny.us/planning>

Table of Contents

Table of Contents

Goals of this Guide	4
Referral Process Basics:	5
• Why and What Actions Must Be Referred	5
• Administrative Procedures and Policies	9
• UCPB Recommendations and Local Approving Board Requirements	12
• Referral Process Flowchart.....	13
Meeting Policies and Procedures: The UCPB's Monthly Meeting	14
Ulster County Comprehensive Planning: How UCPB Policies Relate to Referrals ..	15
Policy Guides: Guidance for UCPB Referral Recommendations	16

Tables and Charts

Table 1: Review Considerations.....	5
Table 2: Summary of UCPB Land Use Related Authority	6
Table 3: Referral Submittal Reference Matrix	7
Table 4: Referral Deadlines by Type	10
Table 5: Recommendations of the Ulster County Planning Board	12

Appendices (Available Online)

Frequently Asked Questions	
Referral Submittal Application Form	
Sample Referral Exception Agreement	
Full Statement Checklist for the UCPB	
General Municipal Law 239 -l,-m, &-n	
Ulster County Charter Article VIII Department of Planning	
NYSDOT Highway Design Manual (Online)	
Ulster County Department of Highway and Bridges: Subdivision Requirements	
Ulster County Department of Highway and Bridges: Private Driveway Requirements	
New York State Realty Subdivision Laws: Article 11, Title II Public Health Law and Article 17, Title 15, Environmental Conservation Law	
Stormwater Pollution Prevention Plan Permit Requirements By Ulster County	

Goals of this Guide

The Ulster County Planning Board (UCPB) **Land Use Referral Guide** provides information on the General Municipal Law 239 -l, -m, & -n Referral Process that governs reviews by UCPB. This guide contains policies and procedures that should be utilized at the earliest stages of the land use approval process.

The Guide is designed to meet three goals:

- To inform municipalities, applicants, and others of the UCPB's administrative procedures regarding areas of jurisdiction of the UCPB, the manner in which a proposed action is to be referred, and the interaction of the UCPB with applicants and the public.
- To lay out in a concise fashion the policies, standards, guides and criteria used by the UCPB in conducting mandated review of various local land use actions as provided for in state law and the Ulster County Charter.
- To promote sound planning practices that improve the quality of life for residents, protect the environment, and attract businesses and visitors to Ulster County.

Referral Process Basics:

Why and What Actions Must Be Referred

Actions Subject to Referral

The establishment of the UCPB and its authority to review land use actions is found in the recently adopted County Charter, Ulster County Code (UCC) §C-51.

As of January 1, 2009, UCC §C-51 grants the UCPB authority to review land use actions as enumerated under Article 12-B of New York State General Municipal Law (GML). This authority now includes review of subdivisions, per GML 239-n, which were not previously subject to referral. In addition the UCC §C-51 gives the UCPB "...the authority to review, with the right to render advisory reports only, other land use and land subdivision elsewhere in Ulster County in accordance with General Municipal Law Article 12-B." This extends the UCPB review authority beyond the 500-foot jurisdiction found in GML 239 -m and -n to all locations within Ulster County. In response, the UCPB has developed a two-tiered approach for referrals based on project location either within or outside the 500 foot jurisdiction.

The key sections of Article 12-B of New York State GML cited by the Ulster County Charter that pertain to the referral process are 239 -l, -m, & -n. These sections provide for actions and materials that must be submitted, time frames for review, and the consideration and response of the UCPB. Table 2 provides a summary of the actions subject to referral and the types of response that may be rendered by the UCPB.

Referral Review Considerations

General Municipal Law 239-l "...authorizes the County Planning Board to review proposed actions for inter-community or county-wide considerations..." These considerations are outlined in Table 1 below.

Table 1: Review Considerations

- Compatibility of various land uses with one another
- Traffic generating characteristics of various land uses in relation to the effect of such traffic on other land uses and to the adequacy of existing and proposed thoroughfare facilities
- Impact of proposed land uses on existing and proposed county or state institutional or other uses
- Protection of community character as regards to predominant land uses, population density and relation between residential and non-residential areas
- Community appearance
- Drainage
- Community facilities
- Official development policies, municipal and county, as may be expressed through their comprehensive plans, capital programs or regulatory measures
- Such other matters as may relate to the public convenience, to governmental efficiency and to the achieving and maintaining of a satisfactory community environment

Table 2: Summary of UCPB Land Use Referral Authority

Actions Subject to Referral	In accordance to NYS General Municipal Law Sections 239-m and –n and In accordance to Ulster County Charter Section C-51 A.	In accordance to Ulster County Charter Section C-51 B.
<p>Municipal Comprehensive Plans</p> <p>Zoning Code or Map Enactment or Amendments</p> <p>Site Plan Review</p> <p>Subdivisions</p> <p>Special Permits</p> <p>Area Variances</p> <p>Use Variances</p> <p>Other Special Authorizations</p>	<p><u>The UCPB has the authority to render the following recommendations:</u></p> <ul style="list-style-type: none"> • No County Impact • Approve • Required Modifications • Disapprove <p><u>Within Five Hundred Feet of:</u></p> <ul style="list-style-type: none"> • Village, City, Town boundary* • Boundary of county or state park or other recreation area* • Right-of-Way of county or state road* • Right-of-Way of stream or drainage channel owned by the County or within established channel lines; • Boundary of county or state owned land on which public buildings or institutions reside* • Boundary of a farm operation located in an Agricultural District per Article 25-AA of Ag and Markets Law <p><i>*Existing or Proposed</i></p>	<p><u>The UCPB has the authority to render the following recommendations:</u></p> <p>Advisory Opinions Only</p> <p><u>Outside Five Hundred Feet of GML Designated Boundaries:</u></p> <p>Same as for GML 239-m and –n</p>

Referral Exceptions for Land Use Actions Deemed Not to Have a County-Wide Impact by the UCPB

General Municipal Law allows the UCPB to enter into agreements with municipalities to exempt certain actions from the referral process. Currently, the UCPB has existing agreements that exempt residential side-yard and rear-yard set back area variances as well as front-yard residential fence height area variances from being referred.

After review of its referral recommendations over the last 5 years the UCPB has concluded that additional local zoning actions are not likely to have a county-wide impact and should also be exempt from review. **Table 3** is a Referral Submittal Reference Matrix of actions that the UCPB has deemed not required to be referred.

To utilize Table 3 a community **must** enter into an agreement with the UCPB to do so. A sample resolution and agreement can be found in the appendices of this guide.

Table 3: Referral Submittal Reference Matrix	
Type of Referral	Referral Requirements
Site Plans and Special Permits	Within 500 Feet Referral Required - Except For:
	Re-occupancy or reuse of existing structures meet one or both of the following conditions:
	~ An increase in parking spaces is not required by local statute and channelized access to state or county road exists or is proposed
	~ New site lighting, if proposed utilizes full cut off luminaires and does not exceed IESNA lighting levels
	Erection of signs that meet zoning requirements
	Accessory apartments
	Outside 500 Feet Referral Required - Only For:
	Buildings with gross floor area > = 4,000 square feet
	Projects With land disturbance > = 1 acre
	Adult uses
	Mining operations
	Structures greater than 100' in height
	SEQRA Type 1 actions
Structures located within the 100-year Flood Plain	
Area Variances	Within 500' Referral Required - Except For:
	Residential rear yard
	Residential side yard
	Residential fence height - not in front yard
	Residential minimum lot size - If central water or sewer is available
	Outside 500 Feet Referral Not Required.
Use Variances	Within 500 Feet Referral Required - Only For:
	Physical expansions of existing structures/utilities/facilities and/or new uses established on vacant sites.
	Outside 500 Feet Referral Not Required.
Subdivisions	Within 500 Feet Referral Required - Except For:
	Total number of lots created less than 5 and no lots located in the 100-year floodplain.
	Outside 500 Feet Referral Required - Only For:
SEQRA Type 1 actions or where land disturbance is greater than 5 acres and/or lots located in the 100-year floodplain.	
Adoptions and/or Amendments to:	All are required.
• Zoning Statutes, Zoning Maps,	
• Comprehensive Plans,	
• Moratoriums	
• Other Land Use Related Authorizations	

The following are further explanations of the referral matrix in Table 3:

Site Plans and Special Permits Within 500'

Internal Modifications: Site plans and special permits for applications for re-occupancies or reuses of existing structures are in many instances "internal modifications" to the structure with little to no external changes. These actions do not rise to the level of "county-wide impact." Referral is **required** in instances where the above meets any of the following conditions:

- **Increase in parking spaces** is required by local statute
- **Un-channelized access** to the existing structure is to remain
- **New lighting is proposed** that is not glare shielded and has not been developed in accordance with Illuminating Engineering Society of North America's lighting standards.

Signage: The UPCB reviews site plans and special permits for signage. As long as a proposed sign meets the standards of the local statute, then it does not rise to the level of "county-wide impact".

Site Plans and Special Permits Outside 500'

Only Projects having the following characteristics are required to be referred:

- Buildings with a gross floor area greater than or equal to 4,000 square feet. In other words, those that exceed a Type II action under SEQRA in terms of gross square footage.
- Land disturbance greater than or equal to one acre
- Adult Uses
- Mining Operations
- Structures greater than or equal to 100 feet in height
- SEQRA Type I Actions
- Structures located within the 100-year floodplain

Area Variances Within 500'

Residential Rear Yard and Side Yard: Do not rise to the level of county-wide impact and are not required to be referred.

- **Residential Fence Height:** Fences in front yards are **required** to be reviewed. However, variances in the side and/or rear of residential lots **do not** rise to the level of county-wide impact and do not require referral.
- **Residential Minimum Lot Size:** In cases where residential lots have either central water or central sewer available to them, this type of variance does not rise to the level of County-wide impact and is excepted from the referral process.

Use Variances Within 500'

As long as a use variance **does not** involve the physical expansion of an existing structure and/or its associated facilities and utilities, it does not rise to the level of county-wide impact and is therefore excepted from the referral process.

Subdivisions Within 500'

Subdivision activities involving five or less lots (non-realty subdivisions) and with no lots located in the 100-year floodplain do not constitute a county-wide impact and are excepted from the referral process

Subdivisions Outside 500'

Only subdivision activities that are Type 1 actions under SEQRA or where land disturbance is greater than five acres, or where the subdivision activity contains located within the 100-year floodplain are required to be referred.

Referral Process Basics:

Administrative Procedures and Policies

Pre-Referral Submittal Meeting

Communities are encouraged to direct applicants to contact the UCPB staff and participate in a pre-referral meeting as early as possible in a project's planning stages. The staff will coordinate these meetings with the referring agency as well as other involved or interested agencies at the county level including Public Works and/or the Health Department. We also can coordinate with NYSDOT and other state agencies where necessary or requested.

Areas where assistance can be offered include:

- Review concept plans for particular sites
- Identify potential issues and solutions/mediations
- Technical assistance with local laws, plans, and comprehensive plans
- Technical assistance with NYS laws and processes
- Technical assistance with GIS mapping

These meetings will provide a better understanding for all parties of the responsibilities and policies of the reviewing agencies, allow the applicant the opportunity to explain a project's design philosophy, site restrictions, alternatives considered and other issues associated with the proposal. It is never too soon for these initial discussions and staff will meet with applicants numerous times as requested.

Referral Submittal Procedures, Deadlines, and Time Frames

Submitting a Referral

Local Board Responsibilities: Referrals must be reviewed by the local board responsible for the action's approval prior to submittal. The referring body should by formal action determine the completeness of an application. **A signature by the Chairperson of the referring body certifying that a formal action of completeness is required .**

The UCPB cautions against a policy of having the referring board's secretary, zoning enforcement officer, or attorney submit applications without prior local board review. See GML "full statement" requirements below.

Applicants **are not permitted** to make direct referrals to the Board; they must come from the referring body. Supplemental material may be submitted to the UCPB providing the same material will or has been submitted to the referring body, and it has been informed that the UCPB has been sent materials.

Submittals must be accompanied by the proper UCPB form and paper copies of all materials that meet the "full statement requirements" must be included. Digital copies of materials should also be submitted if available.

Referrals **must** be submitted by mail or hand delivered by the board responsible for approving the action. Fax and email submittals are only permitted **with prior approval of the referral officer** and are limited to supplementary information/amendments to the original referral.

Full Statement Requirements

GML requires that the UCPB receive a "full statement" of the action being referred. The Board has developed a checklist to guide local boards on the materials that should be included based on the type of approval being requested (see appendix). The UCPB is entitled to **all** of the material submitted to the referring body required in its local statute. Full statements, by their nature, require deliberation and a decision on completeness by the referring body prior to referral. All materials requested, used, or developed by the referring body to make its determination under SEQRA are required to be submitted and an environmental assessment form (EAF) must be submitted. Where a DEIS is required referrals should include it.

Deadlines for Submittal

In accordance with General Municipal Law 239-m,1(d) the UCPB will require receipt (date of delivery) of referral materials **12 calendar days** prior to its monthly meeting in order for a referral to be placed on its agenda. The Board is also requesting that it be permitted additional time to review certain actions. (See Table 4).

These deadlines represent the minimum submittal requirements. NYS law also sets deadlines for submittals that may differ from these minimums that are dependent on local actions, i.e., site plans and special permits must be submitted to a county planning board 10 days prior to any public hearing on the application.

Requests for waivers from the deadlines may be made, but are at the discretion of the referral officer.

UCPB Response Timeframe

Once a referral has been received and deemed to constitute a "full statement" by the referral officer, the UCPB has thirty (30) calendar days to issue its recommendations. Should the UCPB not respond within 30 days, the referring body may take final action. A UCPB response received 2 days or more prior to the referring board taking its final action is considered to have met 30 day requirement under GML. Local approvals should only be taken after 30 days of submittal if no response has been received from the UCPB. Actions taken in advance of 30 days have been deemed by the courts to be null and void. Furthermore, failing to consider the recommendation of the UCPB in the decision by the referring body may also render a decision null and void.

Table 4: Referral Deadlines by Type

Days Receipt Before UCPB Meeting	Type of Action
12 Calendar Days (Required)	<ul style="list-style-type: none">• All Variances• Site Plan Review
30 Calendar Days (Requested)	<ul style="list-style-type: none">• Comprehensive Plans• Zoning Statute and Map Amendments

Final Action Reports

The referring body has 30 days to issue a final action report to UCPB. Actions contrary to a county planning board's recommendation for approval, required modification or disapproval shall state the reasons for such contrary action. Such contrary final actions require a majority plus one vote of all members of a local board.

The Referral Submittal Form

The referral submittal form must be used for all submittals. A full size copy of the form is available in the appendices. A PDF version of this form that allows you to type in information directly is available online at <http://www.co.ulster.ny.us/planning>.

Ulster County Planning Board
General Municipal Law 239 M-N Referral Submittal Form

Please Fill Out All Sections - Type or Print Only

Municipality: _____

Referring Board: _____

Referring Official: _____

Phone Number: _____

Local File #: _____

Applicant Name: _____

Project Name: _____

Type of Referral
(Check All Those That Apply)

239-M:

- Site Plan Review
- Special Permit
- Area Variance
- Use Variance
- Amend Zoning Statute
- Amend Zoning Map
- Comprehensive Plan
- Other Special Authorizations

239-N:

- Subdivision

SEQRA Determination

- Type I Action
- Type II Action
- Unlisted Action

Parcel(s) Information

Section	Block	Lot

Number of Lots: _____

Project Acreage: _____

Zoning District(s) of Project: _____

Parcel Utilities

- Central Water
- Private Water
- Central Sewer
- Individual Septic

GML/Ulster County Charter Referral Criteria:
(Choose One)

Within 500 feet of: County Road or State Road, City, Village, or Town Boundary, County or State Park or Other Recreation Area, Stream or Drainage Channel Owned or Established Channel Line by County, County or State Owned Land with public building or institution Located on it, or Boundary of Parcel with a farm operation

Greater than 500 feet of: Any of the Above Listed Conditions

Location of Project: (Address or Nearest Intersection)

Project Description: (Please Be As Specific as Possible)

Referring Official - Signature - Certification of Application's Completeness: _____

UCPB Staff Use Only

Received Stamp: _____

Referral #: _____

Agenda Date: _____

Major Project?

Return Form to:
Referral Officer
Ulster County Planning Board
P.O. Box 1800
Kingston, NY 12402

Mail or Hand Delivery Only Please!

Questions? - Call
845-340-3340

One of these two options must be selected.

Please be as specific as possible. For example, indicate the type of proposed or existing use. Also, indicate the gross floor area to be constructed or the amount of a

If more than two parcels are included, note them in the project description

Total acreage to be disturbed

Choose the two that apply.

Application will not be accepted without signature of the local referring official, typically the chairperson.

Referral Process Basics:

UCPB Recommendations and Local Approving Board Requirements

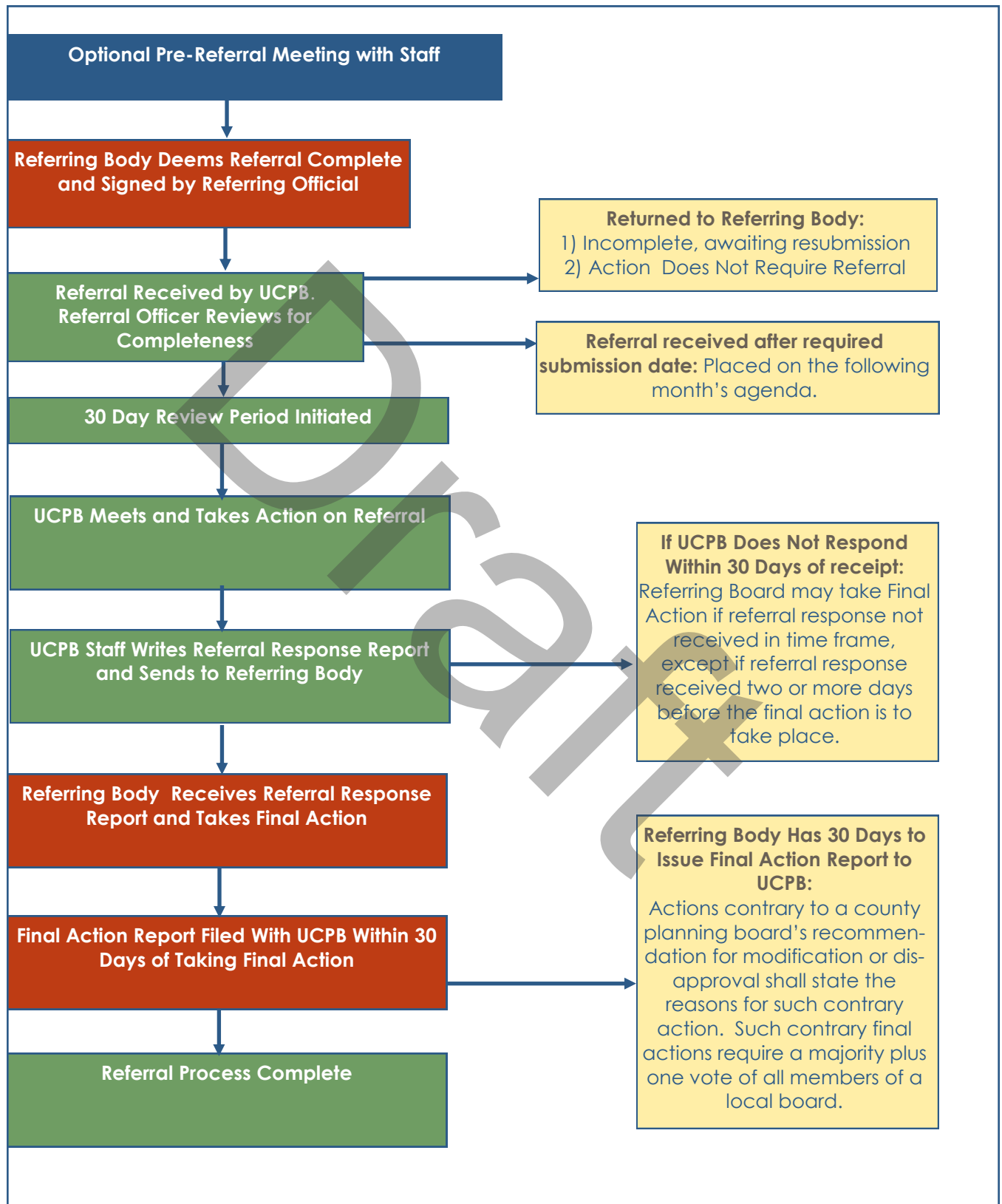
Table 5 summarizes the types of recommendations issued by the UCPB and their impacts.

Table 5: Recommendations of the Ulster County Planning Board

Recommendation	Explanation	Vote Impact on Referring Body
No County Impact	The matter is primarily of local concern and involves no countywide or inter-municipal issues or concerns.	None —Simple Majority Vote
Advisory Comments (Within 500ft)	County-wide concerns are not raised. Comments are provided for guidance and technical assistance.	None —Simple Majority Vote
Advisory Comments (Outside 500ft.)	The UCPB can only make advisory comments on these referrals. Comments will reflect the UCPB's concerns and recommendations.	None —Simple Majority Vote
Approve	The matter is consistent with all the goals and objectives of the County Land Use Plan and provides a clear betterment for the community.	None—Simple Majority Vote is required to approve this recommendation.
		A Majority Plus One is required should the referring board take an action contrary to this recommendation.
Required Modifications	The matter contains some significant aspects that are in conflict with County Planning Board policy, County land use plans, state enabling legislation, or local plans. These aspects can be addressed by imposing certain conditions or by altering the proposal.	None—Simple Majority Vote is required to approve this recommendation if the <i>modifications are followed</i> .
		A Majority Plus One is required if the referring board seeks to approve without following the modifications.
Disapprove	The matter will have a significant countywide or inter-community impact and is in direct conflict with the goals and policies of the Board, the local comprehensive plan, or sound planning principals.	None—Simple Majority Vote is required to approve this recommendation if <i>followed</i> .
		A Majority Plus One is required should the referring board take an action contrary to this recommendation.
Incomplete	Local Boards must submit "full statement" materials. No action may be taken. This response is reserved for submittals that do not contain the necessary "full statement" materials.	Sent back and await re-referral.

Referral Process Basics:

Referral Process Flowchart



Meeting Policies and Procedures

The UCPB's Monthly Meeting

Time, Date, and Location

The UCPB meets the first Wednesday of every month at 7:30 PM in the Surrogate's Court, located on the third floor of the Ulster County Office Building located at 244 Fair Street in Kingston unless otherwise noted. Refer to our website <http://www.co.ulster.ny.us/planning>.

The Agenda

The agenda usually consists of 9 areas as follows:

- **Roll Call**
- **Previous Minutes**, approval
- **Financial Report**: An update on the budget
- **Public Comment**: This is the opportunity for members of the public to comment on topics of County-wide planning concern. The public is welcome to offer comment with an amount of time set at the discretion of the UCPB chairperson. Sign-in as a guest is requested.
- **Community Reports**: Opportunity for the members of the UCPB to offer reports from their individual municipalities.
- **Communications**: Materials received by the UCPB staff that need to be brought to the attention of the Board or the municipalities they represent. These typically consist of, but are not limited to, grant opportunities and award announcements, educational opportunities, and SEQRA actions.
- **Old Business**: Previous business of the UCPB is reported and discussed.
- **New Business**: New business of the UCPB is reported and discussed.
- **Environmental Notice Bulletins**: Staff compiles a report of notices which is made available at the night of the meeting.
- **Referrals**: This is the exercise of the UCPB's project review responsibilities under the GML and the Ulster County Charter. A final agenda of specific referrals is made available to the Board at the meeting. **Applicants may address the Board and respond to questions.** Time limits are at the Chair's discretion.
- **Adjournment**

<u>ULSTER COUNTY PLANNING BOARD</u>			
<i>Agenda – August 6, 2008</i>			
The Ulster County Planning Board Meeting 7:30 p.m. – Surrogate Courtroom, 3 rd Floor County Office Building			
The Referral Guide Committee Will Meet at 6:30 PM			
Mr. Pritchard, Ms. Hokanson, Mr. Praetorius – Everyone is welcome to attend!			
Please contact your alternate as soon as you know you won't be attending a meeting			
1. ROLL CALL			
2. PREVIOUS MINUTES			
3. FINANCIAL REPORT			
Account	Budgeted	Expended	Balance
Payroll	\$ 511,344	\$ 272,128	\$ 239,256
Office Equipment	\$ 1,660	\$ 537	\$ 1,123
Supplies, Travel Exp. & Fees for Professional Svc.	\$ 1,178,591	\$ 415,090	\$ 763,501
Totals	\$1,691,595	\$ 687,755	\$1,003,880
Revenue Report - 2008			
Account		Total Actuals	
Transportation		\$ 137,645	
Planning		\$ 35	
4. PUBLIC COMMENT			
5. COMMUNITY REPORT			
6. COMMUNICATIONS			
a. NYS Assembly – An Act to amend Ag & Markets Law in relation to providing state assistance payments to not-for-profit conservation organizations.			
b. Recusal & Abstention From Voting – published by NYS Bar Association (f)			
c. Town of Wawarsing Planning Board – Mahamudra Buddhist Hermitage – SEQR findings			
d. DEIS for Sailor's Cove on the Hudson Received – 76 acres - located north of Delaware Ave and Willow St (200 North Street) Mixed use residential, office, retail, and restaurant with public access to waterfront and on-site recreational amenities			
e. NYSDOT – Re: HWP Application Crossroads at New Paltz – request for information/documentation			
f. NYS Dept of Environmental Conservation – Div of Water – concurs with Reconnaissance Study recommendation that the study proceed into feasibility stage – Rondout Creek & Walkkill River Watersheds and Esopus Creek Watershed. (f)			
g. Rosendale - Lead Agency Designation - Wild Rose Subdivision - 22 lot subdivision on Bruceville Road 80 acres in the "A" Zoning District. - 21 single family homes and one existing/remaining commercial structure.			
h. City of Kingston - Lead Agency Designation - CVS Pharmacy - 416 Washington Avenue - Demolish Existing and Construct 12,900 SF retail pharmacy.			
i. Alexander Grannis, Commissioner – NYSDEC – Commissioner's Determination for Lead Agency for proposed Hudson River Valley Resort, Town of Rosendale (a/k/a: William's Lake, Canopy Development) – Designation of NYSDEC through its Region 3 office is most appropriate lead agency. (f)			
7. OLD BUSINESS			
a. 2009 Budget (f)			
b. Ulster Tomorrow Public Information Meetings (m)			
8. NEW BUSINESS			
a. Environmental Notice Bulletin – See <i>Separate Agenda</i>			
b. Zoning Referrals – See <i>Separate Zoning Agenda</i>			
9. ADJOURNMENT			
KEY: (f) = handout will be in folder at meeting			
(m) = handout included in the mailing			

Ulster County Comprehensive Planning

How UCPB Policies Relate to Referrals

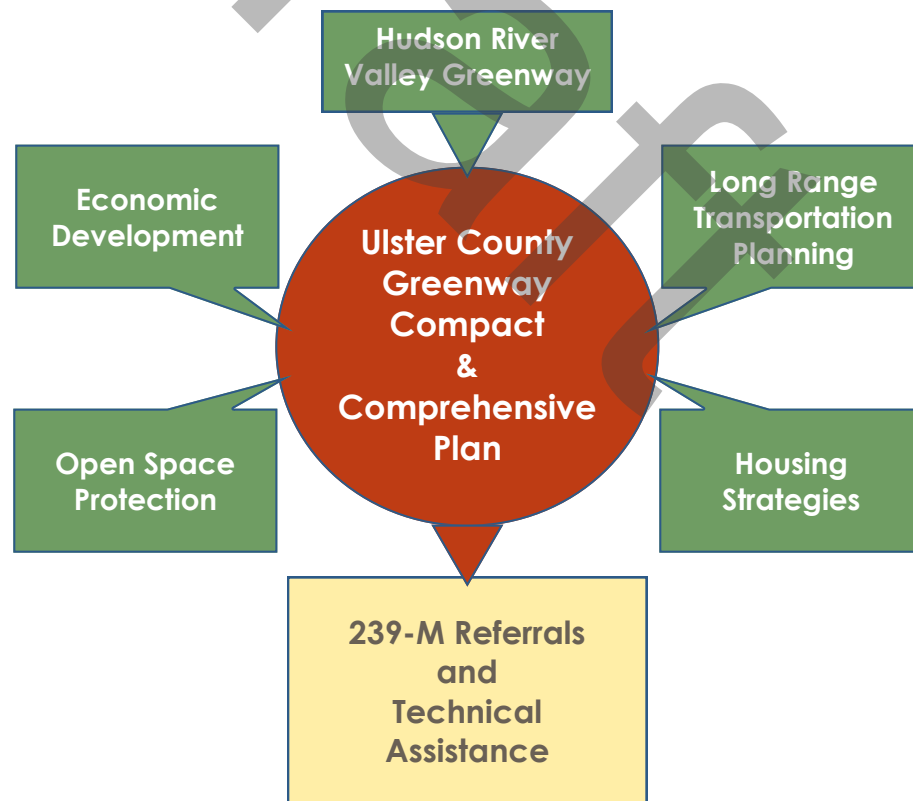
The UCPB comprehensive planning efforts have resulted in the creation and adoption of plans that address housing, economic development, agriculture, open space, transportation, etc. The plans contain policies, goals and objectives that the UCPB utilizes in the referral process.

Recent plans include:

- Ulster County Long Range Transportation Plan (adopted by UC Transportation Council in September 2005),
- Ulster County Housing Strategies Report (adopted by UC Legislature in July 2008),
- Ulster County Open Space Plan (adopted by UC Legislature in December 2007),
- Ulster Tomorrow Sustainable Economic Development Plan, and
- UCPB's current initiative to integrate all these plans into a comprehensive plan and Greenway Compact for the county.

Consistency with these planning documents and the policies they contain often form the basis of UCPB recommendations. The general principles of these plans as they relate to municipal referrals are in the "Policy Guides" in the pages that follow.

The diagram below shows the major components of UCPB's planning and programmatic work, which establishes county policies, informs the referrals process, and provides a basis for technical assistance to communities and UCPB's work with county departments, legislators and programs. Details on each of these planning areas and documents for download are available at the Ulster County Planning website: www.co.ulster.ny.us/planning.

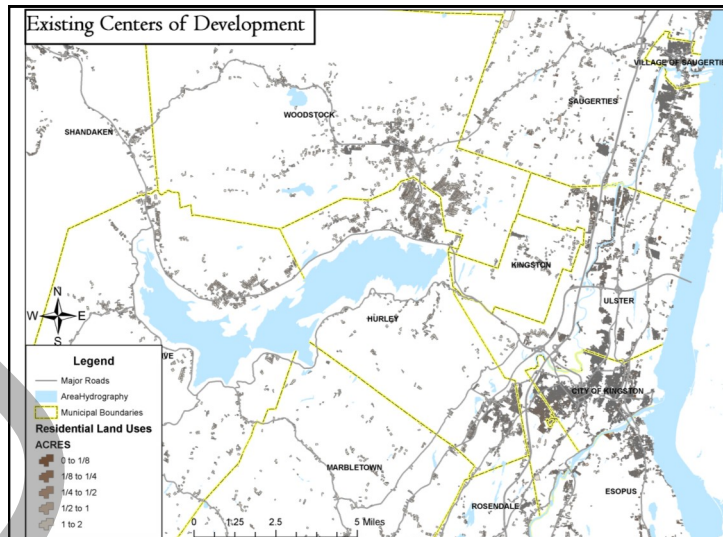


Policy Guides

Guidance for UCPB Referral Recommendations

Guide #1: Concentrate development in and around existing centers

- Create a pattern of development that is sustainable and reduces sprawl by establishing priority areas for growth.
- Provide for appropriate density and uses to reduce the financial costs and environmental impacts associated with expansion of infrastructure (roads, water, sewer, etc.) and take advantage of public investment in this infrastructure.
- Create additional opportunities for residences and commercial development through adaptive re-uses, infill development, and mixed use.
- Develop corridors at depth rather than along their length and maintain a sense of transition from forest, farm, field, hamlet, village, city to create a sense of arrival.
- Move development toward the street and provide appropriate height allowances.
- Reduce the number of persons requiring automobile commutes and increase the opportunities for transit and other alternative transportation methods.



Guide #2: Foster protection and preservation of the County's environmental resources

- Ensure that development does not impact public drinking water supplies, and protect the quality of ground water and surface water.
- Preserve existing farms and encourage new farming activities through use of cluster development, and purchase of development rights.
- Encourage the formation and continuation of state certified Agricultural Districts, and local land use controls that provide value added non-farm uses with agricultural operations consistent with community goals.
- Ensure that development does not disrupt the county's drainage systems, both natural and man made.
- Avoid or minimize disturbance of wetlands and the impacts of development upon them and encourage communities to address the gaps in federal and state wetland regulations through local controls.
- Restrict development in floodplains to appropriate uses and ensure that all development meets or exceeds the National Floodplain Protection Act requirements.
- Preserve and enhance open space, park systems and neighborhood recreation by developing and maintaining a regional trails network, providing public access along all of the county's waterways, and including considerations and connections to these in development decisions.
- Protect sensitive environmental areas such as habitats, aquifers, and stream corridors.
- Protect important vistas by minimizing the visual impacts associated with development. Including such uses as cellular telecommunication facilities, and consideration of lighting and landscaping,
- Regulate clearing and grading.

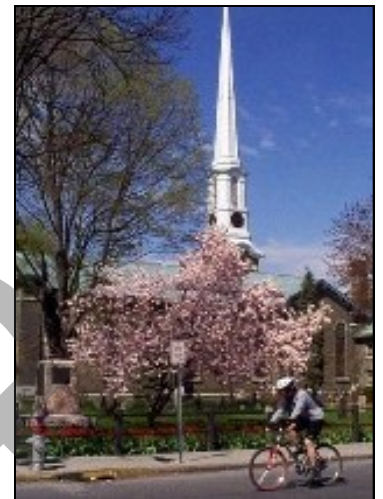


Guide #3: Provide for a safe, efficient, and diverse transportation system consistent with the Ulster County Transportation Council's Long Range Transportation Plan

- Ensure the safe movement of vehicles on the regional road network and provide for connections between modes of transportation.
- Improve traffic safety and preserve road capacity by reducing the number of curb cuts, spacing driveways adequately, combining access points, connecting developments, restricting turning movements, and establishing mitigation measures that exceed those acceptable statewide.
- Avoid placement of curb cuts near intersections and remove existing curb cuts near intersections, when possible.



- Create interconnections via cross access easements and reverse frontage roads wherever possible to reduce the amount of traffic and turning movements on major roadways. Include pedestrian interconnection as well.
- Avoid the use of cul de sacs and where possible require interconnections to adjoining properties, subdivisions, etc.
- Where signalized intersections are needed to serve a private development require a site layout that allows for interconnections to regional or local systems as a condition for signalized access.
- Channelize, curb and pave driveway access to reduce conflicts, improve way finding, and avoid unsafe backing movements.
- Coordinate with local and regional highway agencies to conform to their standards.
- Design access drives so that stacking and queuing occurs on the site and reactions times for entering vehicles are adequate.
- Where appropriate, and especially in neighborhoods and sensitive uses such as schools, utilize traffic calming techniques to slow traffic to speeds that accommodate pedestrians and improve safety.
- Develop master sidewalk plans and sidewalk standards at the local level and require commercial and residential development to link into it.
- Require sidewalks or paths for all residential lot size is less than 1 acre.
- Provide for bike racks and bike storage opportunities.
- Provide transit shelters and pull-offs.
- Require adequate turning radii for transit and delivery vehicles.



- Connect development to open spaces with trails and walkways.

Guide #4: Preserve and protect the County's cultural and historical resources by considering these resources when making land use decisions

- Encourage the use of design guidelines generally, and specifically for historic districts.
- Recognize the role SHPO plays in the land use approval process and coordinate recommendations to ensure their participation.
- Encourage the use of gateway zoning and other land use tools

as it relates to cultural and historic areas.

- Encourage the formation of historic review commissions advisory to local planning boards.

Guide #5: Development should be designed to fit the character of the surrounding area with the natural topography and other features of the landscape

- Minimize clearing and grading and use of fill. Structures should fit in with the topography and locations on ridge tops and steep hillsides should be avoided,
- Minimize removal of existing landscaping and vegetation, and preserve significant trees in context with individual species and local importance,
- Neighborhoods should be created and linked and isolated subdivisions should be avoided,
- Cluster and/or conservation subdivisions should be encouraged and mandated where sensitive natural resources are present or community goals are in effect.
- Amenities such as sidewalks, street trees, trails, and parklands should be integrated into new development as appropriate to the setting and needs of the community.
- Areas of transition or buffers (walls, fencing, combined with landscaping) should be established between commercial and non-commercial uses and between differing intensities of residential development,
- Signage restrictions should be appropriate to the place,
- Design guidelines should be established along major corridors, main streets, and for major developments



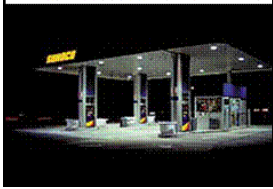
Guide #6: Housing opportunities for all should be provided, including workforce “affordable” housing

- Require new residential development to set aside a portion of the proposed units as affordable and these should be integrated into the fabric of the developments (inclusionary zoning).
- Permit accessory housing units in all districts where single family units are permitted.
- Give multifamily housing special consideration with greater ranges of choice where permitted, appropriate density allowances, predictable approval process, and well articulated design guidelines.
- Require communities to meet their fair share housing needs.



Guide #7: Site development should follow well established planning principles

- Landscaping should use native species where appropriate and be designed to accomplish multiple objectives of screening, shade, edge definition, and aesthetics.
- Drainage structures and designs should not only conform with water quality mandates but also add value and aesthetics to the site,
- Structure placement should define edges and compliment both internal and external land uses.
- Design guidelines should be put in place to address not only the context of the built environment but also a site's natural environment.



- Lighting should be in conformance with IESNA standards and utilize full cut-off luminaires.
- Sustainable building materials should be utilized and energy efficiency should be part of the details.

Guide #8 Variances should be granted in accordance with the criteria established through state enabling legislation and through judicial decisions.

- Area variances should be limited to the minimum variance necessary.
- Use variances must meet the significant economic hardship test.

Draft

Draft

Ulster County



Planning Board

November 2008

Ulster County Municipal Separate Storm Sewer Systems (MS4)

Ulster County Construction Projects

STATEMENT OF POLICY

The term **MS4** includes both municipal and other publically owned systems of underground pipes, and also systems of streets and roads with drainage, catch basins, curbs, gutters, ditches, man-made channels or storm drains. An **MS4** may be a city, town, village, county, or state system, or one serving a large publicly-owned complex such as a military base, hospital, school or prison

The County of Ulster, in accordance with federal and state requirements as a Phase II participant in the MS4 program, has adopted the following Statement of Policy to implement a pre and post construction site plan approval and inspection program on construction projects that it undertakes or authorizes to occur on lands that it owns. The policy covers construction projects where land disturbance of one acre or more will occur or where federal and state stormwater requirements are otherwise applicable. For each applicable construction project Ulster County will require the following:

- Stormwater Pollution Prevention Plan (SWPPP)**
Preparation of a SWPPP that contains the elements described in SPDES Permit No. GP-0-10-001 and Permit No. GP-0-10-002 or subsequent permits. Where necessary the SWPPP will indicate if it contains an Erosion and Sediment Control Plan, Water Quality and Quantity Control, or both.
- Review Procedure**
All SWPPPs will be submitted to the Ulster County Stormwater Management Specialist (SWMS). The SWMS will review the plans and inspect the county-owned construction projects for compliance. SWMS's approval is required prior to the submission of the Notice of Intent (NOI) to the NYS DEC.



stormwater detention on Golden Hill

- MS4 SWPPP Acceptance**
For construction projects located in a regulated, traditional land use control MS4, the SWPPP has to be reviewed and accepted by the MS4 prior to submitting the NOI to the NYS DEC.
- Notice of Intent (NOI)**
After the approval of the SWPPP by the SWMS and the MS4, if applicable, *(continued pg.2)*

TABLE OF CONTENTS

Contractors Certification	2
Permit Coverage	3
Repaving and Reconstruction of Parking Lots	3
Proper Operation and Maintenance	3
References	4
Contact Information	4

APPLICABLE LAWS & REGULATIONS

In New York State, Article 17, Titles 7, 8 and Article 70 of the Environmental Conservation Law regulate stormwater discharge activities. State Pollutant Discharge Elimination System (SPDES) permits are issued by the New York State Department of Environmental Conser-

vation (NYS DEC) under these statutes. DEC has issued the following two general SPDES permits regulating the discharge of stormwater:
Permit No. GP-0-10-001: SPDES General Permit For Stormwater Discharges From Construction Activity

Permit No. GP-0-10-002: SPDES General Permit for Stormwater Discharges From Municipal Separate Stormwater Sewer Systems (MS4s). These permits require that every construction site with 1 (one) acre or more of land disturbance have a *(continued pg.2)*

STATEMENT OF POLICY (continued)

a NOI and certification will be filed with the NYSDEC. The NOI will identify the individual that has reviewed the SWPPP. Submittal of the NOI is an affirmation by Ulster County that a SWPPP has been prepared for the site.

Site Inspection

Prior to commencement of construction the SWMS will conduct an assessment of the site and certify in an inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented. Following the

commencement of construction, site inspections will be conducted at least every 7 calendar days or as required by SPDES permit in effect.

Contractor Certification

Where identified contractors or subcontractors are on-site, Ulster County will require at least one employee on site to have received four (4) hours of training, endorsed by NYS DEC, from a Soil and Water Conservation District, CPESC, Inc. or other NYS DEC endorsed entity in proper erosion and sediment control principals in the last three (3) years.

Notice of Termination (NOT)

Where the site has been finally stabilized, Ulster County will submit a NOT form prescribed by the NYSDEC for use of Permit No. GP-0-10-001 and subsequent permits.

Signatory Requirements

NOIs and NOTs will be signed by either a principal executive officer or ranking elected official of Ulster County

SWPPPs and all reports required by the permit and other information requested by NYSDEC will be signed by the SWMS

Ulster County has a Stormwater Management Specialist (SWMS) with the required expertise and certifications to perform site inspections and review SWPPs

CONTRACTORS CERTIFICATION

The following certification will be required from contractors as part of all Ulster County contracts for construction projects that meet the threshold criteria of the applicable SPDES Permits:

“In accordance with EPA regulations as a Small Municipal Separate Storm Sewer System (MS4) area; Ulster County con-

struction projects must comply with the federally mandated EPA Regulation 40 CFR 122.34 and the State Pollutant Discharge Elimination System General Permits (SPDES) for stormwater discharges for construction activities. The successful bidder certifies to Ulster County that its operators and construction site personnel have the certified training in accept-

able standards and practices for controlling construction site stormwater and managing post-construction stormwater. The successful bidder also certifies that they will be responsible for any waste generated from the construction project that would have adverse impacts to water quality.”

Signature _____

On site construction personnel must have certified training in stormwater management

APPLICABLE LAWS (continued)

Stormwater Pollution Prevention Plan (SWPPP). The permit requirements apply to both new construction and additions to existing county owned facilities. Additionally, NYSDEC may require the preparation of the SWPPP even for less than 1 acre on a case by case basis.

Ulster County has developed and will implement procedures for site plan and SWPPP review process, inspection, as well as post-construction management practices for county-owned construction projects, equivalent to SPDES permit #GP-0-10-001 and permit #GP-0-10-002 and all subsequent

applicable SPDES permits. These procedures will meet the requirements of Minimum Control Measure #4: Construction Site Runoff Control and Minimum Control Measure #5: Post-Construction Runoff Control of the SPDES General Permit for Stormwater Discharges from MS4s.

PROPER OPERATION AND MAINTENANCE

Proper Operation and Maintenance

The SWPPP must include the type, number and frequency of maintenance actions required for stormwater management and erosion control during construction and for permanent practices that remain on the site once construction is finalized. Routine maintenance must be

identified on a maintenance schedule and performed on a regular basis or when a problem is identified.

Ulster County recognizes that the submittal of SWPPP requires that it must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which

are installed and used to achieve compliance with the conditions of the permit and with the requirements of SWPPP. Proper operation and maintenance may include the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit.

The person responsible for conducting the maintenance actions during construction and post-construction will be identified in the SWPPP.

REPAVING & RECONSTRUCTION OF ROADS & PARKING LOTS

Repaving of Roads and Parking Lots

Repaving is defined as the resurfacing of an existing pavement/concrete road or parking lot, or resurfacing of a road or parking lot that has undergone grinding or milling operations, where a layer of pavement or concrete remains after the grinding or milling. Construction activity that does not result in land disturbance (soil exposure) is not required to obtain coverage under a SPDES General Permit for Stormwater Discharges from Construction Activity.

Road and Parking Lot Reconstruction

Road and parking lot recon-

struction is defined as removal of the full depth of the pavement/concrete layer(s) with varying levels of disturbance of the subbase and subgrade layers. Road or parking lot reconstruction may or may not require permit coverage. The need for permit coverage is based on factors such as the type and thickness of the subbase layer and the level of disturbance of the subbase layer. Ulster County will use the following criteria to determine which road and parking lot reconstruction projects are considered regulated land disturbances that require permit coverage:

Permit coverage will be required for disturbances of one acre or more (including other site disturbances):

1. if the existing subbase material is not a processed crushed stone (e.g. mixed ones and twos), or a material equivalent to NYS DOT subbase course (see Section 304 of NYS DOT Standard Specifications);
2. if the existing subbase layer on the road or parking lot reconstruction project is less than 6 inches in depth; and
3. if the road or parking lot reconstruction involves the complete removal of the sub-

base layer or disturbance of the bottom 6 inches of the subbase layer (less than 6 inches of subbase would remain after removal of pavement/concrete).

For the 1, 2, and 3 above—if the subbase layer is six inches or more in depth after the removal of the pavement/concrete layer(s) and the subbase material is equivalent to one of the materials specified in No.1 above, the area is not considered a regulated disturbance and should not be included when calculating the total disturbance.

PERMIT COVERAGE

Five Day Permit Coverage

Stormwater discharges from construction activity may obtain coverage under the general permit in 5 (five) business days after the NYSDEC's receipt of the NOI and the MS4 SWPPP Acceptance if project is located in a regulated, traditional land use control MS4;

Or, for construction activity that is not subject to the requirements of a regulated, traditional land use control MS4, if all of the following are true :

1. Ulster County certifies that the SWPPP has been developed in conformance with the NYS-

DEC's technical standards;

2. The activity is eligible for coverage under the general permit.

Applicants must allow 5 days after the NYSDEC receives a completed NOI and certification before gaining coverage under the permit and before initiating any construction activity.

Sixty Day Permit Coverage

There are conditions where coverage under a general permit will not occur until 60 business days from the NYS DEC's re-

ceipt of a completed NOI. Projects requiring 60 day review period prior to obtaining coverage include those where:

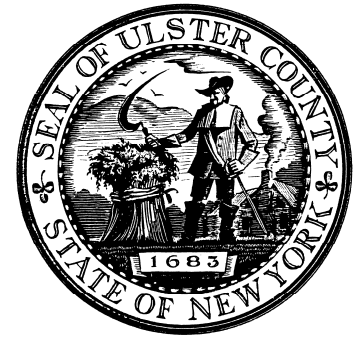
1. Construction activity is not subject to the requirements of a regulated, traditional land use control MS4, and
2. The SWPPP deviates from the DEC's technical standards.

Applicants must allow 60 days after the NYSDEC receives a completed NOI and certification before gaining coverage under the permit and before initiating any construction activity.

The NYSDEC's technical standards for erosion and sediment controls are contained in the document, *New York State Standards and Specifications for Erosion and Sediment Control*. For the design of water quantity and water quality controls (post-construction stormwater control practices), the NYSDEC's technical standards are detailed in the *New York State Stormwater Design Manual*.

Ulster County Department of Public Works

Brendan Masterson
Stormwater Management Specialist
317 Shamrock Lane
Kingston NY 12401



Phone: 845-340-3123

E-mail: bmas@co.ulster.ny.us
stormwater@co.ulster.ny.us

REFERENCES

Federal Regulations

U.S. EPA, National Pollutant Discharge Elimination System (NPDES)
<http://cfpub.epa.gov/npdes/index.cfm>

Phases of the NPDES Stormwater Program <http://cfpub.epa.gov/npdes/stormwater/swphases.cfm>

Stormwater Pollution Prevention Plans for Construction Activities
<http://cfpub.epa.gov/npdes/stormwater/swppp.cfm>

New York State Regulations

New York State Department of Environmental Conservation (NYS DEC), home page
<http://www.dec.ny.gov/>

NYS DEC, State Pollutant Discharge Elimination System (SPDES)
<http://www.dec.ny.gov/permits/6054.html>

NYS DEC, SPDES Construction Stormwater Information (Links)
<http://www.dec.ny.gov/chemical/8694.html>

New York State Technical Standards

New York State Standards and Specifications for Erosion and Sediment Control
<http://www.dec.ny.gov/chemical/29066.html>

New York State Stormwater Design Manual
<http://www.dec.ny.gov/chemical/29072.html>

Ulster County Stormwater website

<http://www.co.ulster.ny.us/stormwater.html>

Ulster County Development Review Statement of Policy

Construction Site and Post-Construction Stormwater Runoff Control Site Plan Review Procedure

NARRATIVE

Ulster County, as a traditional non-land use control Municipal Separate Storm Sewer System (MS4), does not have jurisdiction over building permits and certain other land use issues. Therefore, we cannot enact local laws or ordinances, as other MS4 municipalities are required to do, to regulate construction activities. We are required, however, to establish a procedure to ensure that pollutants from construction activities requiring coverage under the SPDES General Permit for Stormwater Discharges from Construction Activity (any activity disturbing one acre or more of land) do not enter our stormwater drainage system. This construction and post-construction runoff control mechanism is used to make sure that the Ulster County Stormwater Management Specialist (SWMS) has an opportunity to review all Stormwater Pollution Prevention Plans (SWPPPs) that could have an impact on the County's stormwater drainage system.

Stormwater Runoff Control Mechanism

Ulster County established this control mechanism to comply with the requirements of the SPDES General Permit for Stormwater Discharges from MS4s —Minimum Control Measures 4 and 5 (Construction site stormwater runoff control and Post-construction stormwater management). This procedure covers development and implementation procedures for site plan review for pre-construction sites and site inspection during the construction work and post-construction runoff control.

The Stormwater Pollution Prevention Plans (SWPPPs) will be reviewed by Ulster County's Stormwater Management Specialist (SWMS). The erosion control and water quality plans for review will be obtained by cooperation within the County's Departments (Public Works, Health, and Planning) based on an Inter-Office Agreement.

In cases where the proposed development requires access to the property from a county road, the developer will need to obtain a driveway or roadway permit from the Ulster County Dept. of Public Works, Engineering Department. In cases where the proposed development does not require access from a county road, a permit from Ulster County Health Department for proposed water supply and sewage disposal may be required. In either of these situations, the County is notified about the proposed development. The Storm Water Management Specialist would receive the Stormwater Pollution and Prevention Plan (SWPPP) for review from either the Highway Department or the Health Department. These Departments have the authority to issue or deny the permit application. A permit will be issued only if, besides other requirements, the SWPPP was submitted, reviewed, and approved by the County SWMS, and satisfies the erosion control, pollution prevention, and water quality requirements established by the SPDES permits for Stormwater Discharges as well as Ulster County's design requirements. In cases where no County permit is required, the Ulster County Planning Department will notify the SWMS about proposed developments. This will allow the SWMS to contact the designer and developer in an early stage of the design work and expedite the permit procedure.

Design Requirements for SWPPP by Ulster County

The designer/developer shall submit 1 (one) complete copy of the Stormwater Pollution Prevention Plan (SWPPP) to the Ulster County Stormwater Management Specialist (SWMS) for review. To expedite the permit procedure, it is recommended to schedule a meeting with the Ulster County SWMS prior to the submittal of a SWPPP to Ulster County.

Stormwater Management Specialist
Ulster County, Department of Public Works
317 Shamrock Lane, Kingston, NY 12401;
Ph #: (845)340-3123

The designer of a development should consider the following principle requirements during the design and the implementation of a Stormwater Pollution Prevention Plan (SWPPP):

1. Satisfy all the requirements of the SPDES permit(s) for Construction Activities and for MS4
2. Show the MS4 boundary line on the plans
3. Only stormwater can be discharged to the county drainage system
4. Determine the acreage of the proposed land disturbance
5. Provide construction sequence and phasing (the latter is needed only for 5 acres or more land disturbance)
6. Based on the SPDES requirements submit the Erosion and Sediment Control (ESC) Plans or the full SWPPP as needed
7. As a design principle, the post-development stormwater discharge cannot exceed the pre-development conditions at any design point along the perimeter of the property. For easy comparison, prepare a summary table for the pre- and post-development stormwater discharges for the 1 year (C_{pv}), 10 year (Q_p), and the 100 year (Q_f) design conditions
8. The county right-of-way and drainage system should be shown on the plan along the entire frontage of the property
9. If any part of the county drainage system will be used by the developer, show the direction of flow (including elevations and slopes) within the county right-of-way from the discharge point to the point where the stormwater from the development will leave the county right-of-way. Both the inflow and outflow locations shall be mapped by the designer using GPS or standard survey methods and will be provided to the Ulster County SWMS.

10. In case any alteration of the existing county drainage system is necessary (i.e., culvert size increase), an explanation of the necessity of the change and a relevant hydraulic calculation should be submitted to justify the alteration of the drainage feature(s) within the county right-of-way
11. Check the capacity of the existing culvert pipe(s) you want to use under the county road. In case any new culvert pipe is needed, size the pipe for the 25 year storm (Q_{25}) and obtain all necessary easements and permits along the water course on the downstream side of the culvert
12. Check the capacity of the county ditch line if any part of this ditch line is used in the design. If a new ditch line is proposed, size it to the 10 year storm (Q_p)
13. The applicant is responsible for the design, construction, and maintenance of the drainage appurtenances necessary to be built or altered because of the proposed development
14. It is the applicant's responsibility to correct erosion problems during and after the construction. The erosion and sediment devices cannot be removed before the final stabilization of the disturbed land
15. The applicant is responsible for the design, replacement and/or installation of the necessary drainage appurtenances if the proposed drainage system, for any reason and any level, adversely affects the existing county drainage system or the water course on the downstream side of the culvert
16. Use standard symbols for stormwater management practices
17. Provide stabilized construction entrance(s) and show its location on the ESC plan (where applicable).



**Appendices D1-D4:
Good Housekeeping/Pollution Prevention
Practices**

Local Law No. 4 Of 2009

County Of Ulster

A Local Law Requiring Non-Toxic Landscape Maintenance On Land Owned Or Leased By The County Of Ulster, With Exceptions And Waivers In Appropriate Circumstances

BE IT ENACTED, by the Legislature of the County of Ulster, as follows:

SECTION 1. NAME OF LOCAL LAW.

This law shall be known as “The Ulster County Non-Toxic Landscape Maintenance Act.”

SECTION 2. DEFINITIONS.

For the purpose of this local law the following are defined as follows:

“Natural, Non-Toxic, Least Toxic or Biological Pesticide” shall mean a pesticide that is a naturally occurring substance or microorganism that controls pests in a non-toxic manner, or, if approved by the Department of the Environment or the Advisory Committee, the least toxic method possible.

“Integrated Pest Management” shall mean technique for agricultural disease and pest control in which as many pest control methods as possible are used in an ecologically harmonious manner to keep infestation within manageable limits.

“Non-toxic Pest Management (“NPM”)” shall mean a problem-solving strategy that prioritizes a natural, non-toxic approach to turf grass and landscape management without the use of toxic and synthetic pesticides. It mandates the use of natural, non-toxic, or, as a last resort with the Advisory Committee approval, least toxic cultural practices that promote healthy soil and plant life as a preventative measure against the onset of turf and landscape pest problems.

Essential NPM practices include, but are not limited to:

- regular soil testing;
- addition of approved soil amendments as necessitated by soil test results, following, but not limited to, the recommendations of the Northeast Organic Farmers’ Association Massachusetts and Connecticut Chapters Organic Land Care Program and/or the Organic Material Review Institute of Eugene, or;
- selection of plantings using criteria of hardiness; suitability to native conditions; drought, disease and pest-resistance; and ease of maintenance;

Local Law No. 4 Of 2009

County Of Ulster

A Local Law Requiring Non-Toxic Landscape Maintenance On Land Owned Or Leased By The County Of Ulster, With Exceptions And Waivers In Appropriate Circumstances

- using, with the Advisory Committee approval, the least toxic organic, or non-toxic non-organic, products as some organic products are toxic;
- modification of outdoor management practices to comply with organic horticultural science, including scouting, monitoring, watering, mowing, pruning, proper spacing, and mulching;
- the use of physical controls, including hand-weeding and over-seeding;
- the use of biological controls, including the introduction of natural predators, and enhancement of the environment of a pest's natural enemies;
- through observation, determining the most effective treatment time, based on pest biology and other variables, such as weather and local conditions; and
- eliminating pest habitats and conditions supportive of pest population increases.

“Pest” shall mean (1) any insect, rodent, fungus, weed or (2) any other form of terrestrial or aquatic or animal life or virus, bacteria, or other micro-organism (except viruses, bacteria or other micro-organisms ordinarily present on or in humans or living animals) which the commissioner of the New York State Department of Environmental Conservation declares to be a pest.

“Pesticide” shall mean any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest; and any substance or mixture of substances intended for use as a plant regulator, defoliator or desiccant. It shall include all pesticide products registered as such by the United States Environmental Protection Agency and the New York State Department of Environmental Conservation, and all products for which experimental use permits and provisional registrations have been granted by the United States Environmental Protection Agency and the New York State Department of Environmental Conservation.

“Toxic” shall mean any substance that is harmful to humans. It is recognized that, by their very nature, pesticides and herbicides are toxic to those pests they are designed to eliminate. Obviously, the concern of this local law is to limit pesticides' toxicity to humans while preventing pests from multiplying and thereby endangering humans. A pesticides' relative toxicity to humans is the

Local Law No. 4 Of 2009

County Of Ulster

A Local Law Requiring Non-Toxic Landscape Maintenance On Land Owned Or Leased By The County Of Ulster, With Exceptions And Waivers In Appropriate Circumstances

standard that should govern the determination as to which pesticides should be utilized. Measures of relative toxicity have been determined by measuring their effect upon adult humans, who have greater mass and weights than children. Thus, children are at greater risk from exposures to even low levels of pesticides.

SECTION 3. LEGISLATIVE INTENT.

The County of Ulster agrees with the U.S. Environmental Protection Agency (EPA) that “all pesticides are toxic to some degree..., and the commonplace, widespread use of pesticides is both a major environmental problem and a public health issue.”

The County of Ulster recognizes that all residents, (particularly children), as well as other inhabitants of our natural environment, have a right to protection from exposure to hazardous chemicals and pesticides in particular.

The County of Ulster recognizes that a balanced and healthy ecosystem is vital to the health of the town and its citizens; and as such is also in need of protection from exposure to hazardous chemicals and pesticides, in particular.

Furthermore, the County of Ulster recognizes that it is in the best interest of public health to eliminate the use of toxic pesticides on County-owned land; to encourage the reduction and elimination of the use of toxic pesticides on private property; and to introduce and promote natural, non-toxic, or as a last resort and with the Advisory Committee approval, least toxic management practices to prevent and, when necessary, control pest problems on County-owned and leased land.

Therefore, the County of Ulster seeks to implement non-toxic pest management (NPM) on County-owned and leased lands.

SECTION 4. DECLARATION OF PHILOSOPHY AND PRINCIPLES.

The County of Ulster hereby adopts the precautionary principle (as defined by the Wingspread statement) as the basis for its non-toxic pest management (NPM) policy. The precautionary principle states:

Local Law No. 4 Of 2009

County Of Ulster

A Local Law Requiring Non-Toxic Landscape Maintenance On Land Owned Or Leased By The County Of Ulster, With Exceptions And Waivers In Appropriate Circumstances

“When an activity raises threats of harm to the environment or human health, precautionary measures should be taken, even if some cause and effect relationships are not yet fully established.”

SECTION 5. ENACTMENTS.

The County of Ulster hereby adopts an NPM policy that mandates the following on all properties where the County is responsible to maintain the outside areas, including lawns and grassy areas:

1. that the use and application of toxic chemical pesticides, either by County of Ulster employees or by private contractors, for the purpose of turf and landscape maintenance, is prohibited on all lands maintained by the County of Ulster;
2. that, if toxic products must be used, based upon a waiver or exemption, then natural, least toxic turf and landscape cultural practices and maintenance shall be the method of choice to understand, prevent, and control potential pest problems;
3. that all control products used under the terms of this policy shall be in keeping with, but not limited to, those products on the approved list of the Northeast Organic Farming Association Connecticut and Massachusetts Chapters' Organic Land Care Program or approved by the Advisory Committee;
4. that County of Ulster employees who work with turf grass and the landscape receive education and training in natural, least toxic turf and landscape management to be coordinated by the Advisory Committee, if, in its opinion and discretion, such training is necessary;
5. that a listing of all County-maintained lands affected by this policy be made available to the public by posting a list on the County website.

Local Law No. 4 Of 2009

County Of Ulster

A Local Law Requiring Non-Toxic Landscape Maintenance On Land Owned Or Leased By The County Of Ulster, With Exceptions And Waivers In Appropriate Circumstances

SECTION 6. ADVISORY COMMITTEE ON NON-TOXIC PEST MANAGEMENT.

1. An Advisory Committee on Non-toxic Pest Management will be formed with the following members: Commissioner of Public Works or designee, Coordinator of the Department of the Environment or designee, Executive Director of the Soil and Water Conservation District or designee, Director of Cornell Cooperative Extension or designee, and the Chairman of the Environmental Management Council or designee.

The Advisory Committee will oversee and assist in the implementation of the NPM policy, to develop an NPM program consistent with this local law, and to advise the Chairperson of the Ulster County Legislature's Committee responsible for environmental issues of any problems encountered or amendments required to achieve the full and successful implementation of this policy.

2. The Advisory Committee shall seek the participation, advice, and counsel of experts in the fields of non-toxic turf and landscape management and NPM protocol. Broad community participation, including parents, schools, advocates, and local landscaping businesses shall be encouraged on a non-voting basis.

3. Any decision by the Advisory Committee, pursuant to this local law shall be by majority vote of the entire committee membership, and not merely a majority or those present and voting.

SECTION 7. EXEMPTIONS.

All turf and landscape pest management activities taking place on land maintained by the County of Ulster land shall be subject to this local law, except as follows:

1. Pesticides or classes of pesticides classified by the United States environmental protection agency as not requiring regulation under the federal insecticide, fungicide and rodenticide act under 40 CFR § 152.25, and therefore exempt from such regulation when intended for use, and used only in the manner specified.

Local Law No. 4 Of 2009

County Of Ulster

A Local Law Requiring Non-Toxic Landscape Maintenance On Land Owned Or Leased By The County Of Ulster, With Exceptions And Waivers In Appropriate Circumstances

2. Biological pesticides, such as bacillus thuringiensis or milky spore, that are not genetically modified.
3. Pesticides in contained baits for the purpose of rodent control.
4. Poison ivy and poison oak that constitutes a health hazard.
5. Tick control.
6. Any property, or categories of properties, as recommended from time to time by the Ulster County coordinator of environmental resources and approved by the Ulster County Legislature by mere resolution.

SECTION 8. WAIVERS.

1. Any County agency or contractor may apply to the Advisory Committee for a single-use waiver of the restrictions established pursuant to this local law. Such application shall be in a form and manner prescribed by the Advisory Committee and shall contain such information as the committee deems reasonable and necessary to determine whether such waiver should be granted. The Advisory Committee may grant such waivers by a majority vote of the voting membership, not merely a majority of those present and voting. In determining whether to grant or deny a request for a waiver, the Advisory Committee shall consider (i) the magnitude of the infestation, (ii) whether the pest situation poses an immediate threat to public health, property, or the environment (iii) the availability of effective alternatives consistent with this local law, and (iv) the likelihood of exposure of humans to the pesticide.

No waiver shall be approved unless the following conditions have been met: (i) Any pesticide used of all available choices must have the least acute and chronic toxic effect on human health or safety; and, (ii) The applicant must submit a plan demonstrating how underlying causes of the pest outbreak will be addressed in a manner consistent with this local law to prevent future outbreaks.

Local Law No. 4 Of 2009

County Of Ulster

A Local Law Requiring Non-Toxic Landscape Maintenance On Land Owned Or Leased By The County Of Ulster, With Exceptions And Waivers In Appropriate Circumstances

2. If a pest situation poses an immediate threat to human health and warrants the use of pesticides that would otherwise not be permitted under this local law, the Ulster County Commissioner of Health or Public Health Director shall have the authority to grant a temporary emergency waiver for a period of thirty days. Notice of the waiver request shall be given to the Advisory Committee for advice on resolving the problem without the use of pesticides. The Commissioner or Public Health Director may extend the waiver for one additional period not to exceed six months. Nothing in this waiver provision prohibits the County of Ulster from adopting additional waivers via resolution for as long as the condition exists.

Any County Department using a pesticide under such a waiver must comply with all applicable federal and state laws regarding pesticide use and the Ulster County pesticide neighbor notification law.

SECTION 9. SEVERABILITY.

If any clause, sentence, paragraph, subdivision, section or part of this local law or the application thereof to any person, individual, corporation, firm, partnership, entity or circumstance shall be adjudged by any court of competent jurisdiction to be invalid or unconstitutional, such order or judgment shall not affect, impair, effect or invalidate the remainder thereof, but shall be confined in its operation to the clause, sentence, paragraph, subdivision, section or part of this law or in its application to the person, individual, corporation, firm, partnership, entity or circumstance directly involved in the controversy in which such order or judgment shall be rendered.

SECTION 10. EFFECTIVE DATE.

This local law shall take effect immediately upon filing with the New York State Secretary of State.

Adopted by the County Legislature: June 10, 2009

Requiring The Purchase And Use Of Green Cleaning Products In All County Facilities

Legislator Robert Parete, Co-Sponsors: The Environmental Subcommittee (Co-Chairmen Petit and Shapiro and Legislators Belfiglio, Robert Parete and Rodriguez), and Multi-Sponsors: The Governmental Services, Environmental and Administrative Committee (Chairman Roberts and Legislators Belfiglio, Fabiano, Petit, Ronk, Richard Parete, Robert Parete, Rodriguez and Shapiro) and Legislators Briggs, Donaldson, Gregorius, Hochberg, Lomita, Loughran, Madsen, Richard Parete, Provenzano, Sheeley, Stoeckeler and Zimet offer the following:

WHEREAS, the Ulster County Legislature's Governmental Services, Environmental and Administrative Committee is tasked with setting policies that pertain to environmental issues, and

WHEREAS, the Ulster County Legislature is committed to providing safe and healthy facilities for employees, customers and visitors, and

WHEREAS, Green cleaning products are cleaning and maintenance products that minimize adverse impacts on human health and the environment and yet clean effectively, and

WHEREAS, a Green Cleaning policy can reduce the levels of cleaning chemicals, mold, and airborne dust, major indoor triggers of asthma attacks, and

WHEREAS, as the green cleaning product market continues to expand, more cleaning products and competition are available in the marketplace which will lower costs, and

WHEREAS, facilities that implement a Green Cleaning Program may realize a reduction in overall cleaning cost due to:

- Reducing chemical waste and waste disposal requirement;
- Reducing the amount and number of cleaning products needed;
- Causing a reduction in sick time and at-work injuries; and
- Instituting an overall green cleaning training program that includes training about product use to reduce waste and obtain the best results.

WHEREAS, Green Seal is an Independent, non-profit organization, "Third Party Certifying" organization, and

WHEREAS, Third Party Certified (TPC) products are cleaning products have been certified by an established and legitimate, nationally-recognized program developed for the purpose of identifying environmentally preferable products. Any such TPC certification program shall:

Resolution No. 282 November 16, 2010

Requiring The Purchase And Use Of Green Cleaning Products In All County Facilities

- Have an open, transparent process for setting standards that involves the public and key stakeholders
- Clearly define the fees a manufacturer must pay for certification;
- Clearly identify any potential conflicts of interest;
- Have criteria for certification that are publicly available and transparent;
- Certification is based on consideration of human health and safety, ecological toxicity, other environmental impacts, and resource conservation, as appropriate, for the product and its packaging, on a life cycle basis;
- Require periodic revisions and updates of the standards;
- Monitor and enforce the standards, provide for the authority to inspect the manufacturing facilities, and periodically do so;
- Have a registered/legally protected certification mark;
- Make the standards easily accessible to purchasers and manufacturers (e.g. available for download on the program's website);
- Be developed by consensus, if possible;
- Establish leadership levels in standards for products, and

WHEREAS, the Governmental Services, Environmental and Administrative Committee has met and reviewed said request with a majority of the members voting approval, now, therefore, be it

RESOLVED, the Ulster County Legislature hereby establishes a "green" cleaning policy that mandates the purchase and use of cleaning products in all county facilities. Green Cleaning Products shall meet GS-37 standard as provided by Green Seal or equivalent. Green Seal, a non-profit organization that provides science-based environmental certification standards, has developed the "Environmental Standard for General-Purpose, Bathroom, Glass, and Carpet Cleaners Used for Industrial and Institutional Purposes"(GS-37), which establishes certification requirements for safer and less harmful cleaning products. Under the GS- 37 standard for Green Seal Certification, products must meet requirements for toxic compounds, carcinogens and reproductive toxins, skin and eye irritation, skin sensitization, and combustibility, as well as life cycle analysis from production to disposal, and be it further

Resolution No. 282 November 16, 2010

Requiring The Purchase And Use Of Green Cleaning Products In All County Facilities

RESOLVED, product categories certified under GS-37 include the following:

- General Purpose Cleaners
- Glass Cleaners
- Bath Cleaners
- Carpet Cleaners
- Carpet Spot Removers
- Toilet Bowl Cleaners

and, be it further

RESOLVED, the Ulster County policy on green cleaning does not supersede or change existing health, labor, education and environmental regulations related to cleaning and maintenance practices and disposal of hazardous chemicals. However, in certain locations (e.g., food service areas) and for special circumstances (e.g., blood spills) different products and practices may be needed to satisfy the requirements of existing public health, labor, education and environmental conservation regulations, and, be it further

RESOLVED, the Purchasing Department shall issue an Annual report to the Legislative Committee responsible for Environmental issues on the procurement of green cleaning products, and, be it further

RESOLVED, Ulster County staff is permitted to deplete existing inventories of cleaning products. Implementation shall take effect by June 1, 2011,

and move its adoption.

ADOPTED BY THE FOLLOWING VOTE:

AYES: 32 NOES: 0
Legislator Shapiro)

(Absent:

FINANCIAL IMPACT:
NONE

Resolution No. 282 November 16, 2010

Requiring The Purchase And Use Of Green Cleaning Products In All County Facilities

STATE OF NEW YORK

ss:

COUNTY OF ULSTER

This is to certify that I, the undersigned Clerk of the Legislature of the County of Ulster have compared the foregoing resolution with the original resolution now on file in the office of said clerk, and which was adopted by said Legislature on the 16th day of November, 2010, and that the same is a true and correct transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of the County of Ulster this 18th Day of November in the year Two Thousand and Ten.

/s/ Karen L. Binder
Karen L. Binder, Clerk
Ulster County Legislature

Submitted to the County Executive this

18th Day of November, 2010.

/s/ Karen L. Binder
Karen L. Binder, Clerk
Ulster County Legislature

Approved by the County Executive this

23rd Day of November, 2010.

/s/ Michael P. Hein
Michael P. Hein, County Executive

Requiring The Purchase And Use Of Low Or No Volatile Organic Compounds (VOC) Paints And Coatings In All County Facilities

Legislator Robert Parete, Co-Sponsors: The Environmental Subcommittee (Co-Chairmen Petit and Shapiro and Legislators Belfiglio, Robert Parete and Rodriguez), and Multi-Sponsors: The Governmental Services, Environmental and Administrative Committee (Chairman Roberts and Legislators Belfiglio, Fabiano, Petit, Ronk, Richard Parete, Robert Parete, Rodriguez and Shapiro) and Legislators Briggs, Donaldson, Gregorius, Hochberg, Lomita, Loughran, Madsen, Richard Parete, Provenzano, Sheeley, Stoeckeler and Zimet offer the following:

WHEREAS, the Ulster County Legislature endeavors to provide a healthy work environment for all employees, and

WHEREAS, estimates demonstrate that Americans spend up to 90% of their time indoors. Many common items contain toxic chemicals that may lead to a variety of health problems, and

WHEREAS, as an operator of public buildings, Ulster County has an important responsibility to adopt and implement public policies and practices that seek to protect the long-term health of all those who work in and visit these properties, and

WHEREAS, according to the United States Environmental Protection Agency (EPA) website, "Volatile organic compounds (VOCs) are emitted as gases from certain solids or liquids. VOCs include a variety of chemicals, some of which may have short- and long-term adverse health effects. Concentrations of many VOCs are consistently higher indoors (up to ten times higher) than outdoors", and

WHEREAS, VOCs are emitted by a wide array of products numbering in the thousands, including traditional paints, and

WHEREAS, as the "green" product market continues to expand, more products and competition are available in the marketplace which will lower costs, and

WHEREAS, avoidance of toxic substances and conditions, as they might influence not only the environment but human health more directly, is a longstanding concern of the Ulster County Legislature, and

WHEREAS, Green Seal is an independent non-profit organization dedicated to safeguarding the environment and transforming the marketplace by promoting the manufacture, purchase, and use of environmentally responsible products and services, and

Resolution No. 283 November 16, 2010

Requiring The Purchase And Use Of Low Or No Volatile Organic Compounds (VOC) Paints And Coatings In All County Facilities

WHEREAS, the Governmental Services, Environmental and Administrative Committee has met and reviewed said request with a majority of the members voting approval, now, therefore, be it

RESOLVED, Ulster County shall procure and use low- or no-VOC paints and sealers on all new, renovation and repair projects in County-owned and leased facilities, and, be it further

RESOLVED, Ulster County shall procure and use low- or no VOC paints and coatings that meet Green Seal GS-11 Standards or equivalent. Green Seal establishes requirements and GS-11 Standard for paints and coatings, and, be it further

RESOLVED, the Director of Purchasing shall report to the Environmental Committee of the County Legislature on the procurement of low- or no-VOC paints on an annual basis, and, be it further

RESOLVED, Ulster County staff is permitted to deplete existing inventories. Implementation shall take effect by June 1, 2011.

and moves its adoption.

ADOPTED BY THE FOLLOWING VOTE:

AYES: 32 NOES: 0
Legislator Shapiro)

(Absent:

FINANCIAL IMPACT:
NONE

Resolution No. 283 November 16, 2010

Requiring The Purchase And Use Of Low Or No Volatile Organic Compounds (VOC) Paints And Coatings In All County Facilities

STATE OF NEW YORK

ss:

COUNTY OF ULSTER

This is to certify that I, the undersigned Clerk of the Legislature of the County of Ulster have compared the foregoing resolution with the original resolution now on file in the office of said clerk, and which was adopted by said Legislature on the 16th day of November, 2010, and that the same is a true and correct transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of the County of Ulster this 18th Day of November in the year Two Thousand and Ten.

/s/ Karen L. Binder
Karen L. Binder, Clerk
Ulster County Legislature

Submitted to the County Executive this

18th Day of November, 2010.

/s/ Karen L. Binder
Karen L. Binder, Clerk
Ulster County Legislature

Approved by the County Executive this

23rd Day of November, 2010.

/s/ Michael P. Hein
Michael P. Hein, County Executive

Prohibiting The Leasing Of Any County-Owned Lands, Including But Not Limited To County Parks For High-Volume Chemical Slick-Water Hydraulic-Fracturing To Extract Natural Gas

Legislators Zimet, Petit, Aiello, Bernardo, Gregorious and Madsen and Co-Sponsors: Legislators Briggs, Donaldson, Hochberg, Lomita, Loughran, Richard Parete, Robert Parete, Provenzano, Rodriguez, Shapiro, Sheeley and Stoeckeler offer the following:

WHEREAS, it is increasingly clear that drilling for natural gas using slick-water hydraulic-fracturing (hydrofracking) may have severe adverse impacts on communities and the environment, and

WHEREAS, the process of pumping chemicals under intense pressure into an underground shale formation to release gas for extraction may contaminate drinking water supplies, including the New York City system in the Catskills, and

WHEREAS, such activity would undoubtedly place added stress on species that may increasingly come under stress from the impacts of climate change, and

WHEREAS, past Governor David A. Paterson had issued Executive Order 41 - Requiring Further Environmental Review of High Volume Hydraulic Fracturing in the Marcellus Shale directing the Department of Environmental Conservation (DEC) to conduct further comprehensive review and analysis of high-volume horizontal hydraulic fracturing in the Marcellus Shale thereby requiring that high-volume, horizontal hydraulic fracturing would not be permitted until July 1, 2011, at the earliest, and

WHEREAS, Executive Order No. 41 does not include low volume vertical hydraulic fracturing which allows 16 wells for every single horizontal well, and utilizes similar toxic compounds to extract gases, and

WHEREAS, similar extraction practices in a township in Susquehanna County, Pennsylvania, contaminated the drinking water supply and subsequent litigation and a settlement of 4.1 million dollars was awarded to the residents, and

WHEREAS any economic boost to the state's economy from development and sale of natural gas from Marcellus Shale is short term at best, and will foreclose the long-term economic benefit to the county of tourism and agriculture, and

WHEREAS, the Ulster County Legislature adopted Resolution 378 - County of Ulster Energy Policy on December 10, 2008, which included minimizing greenhouse gas emissions, that would be impossible to meet if natural gas drilling occurred on County-owned land, and

Resolution No. 74 March 15, 2011

Prohibiting The Leasing Of Any County-Owned Lands, Including But Not Limited To County Parks For High-Volume Chemical Slick-Water Hydraulic-Fracturing To Extract Natural Gas

WHEREAS, improving and protecting the quality of life, Open Space and Waterways concluded that increased energy conservation and use of renewable energy are important ways to avert the most catastrophic impacts of climate change, now, therefore, be it

RESOLVED, that Ulster County will not lease any county-owned lands, including but not limited to County park lands, for high-volume, **chemical** slick-water hydraulic-fracturing to extract natural gas, and be it further

RESOLVED, that the Clerk of the Ulster County Legislature shall forward copies of this resolution to Governor Andrew M. Cuomo, Senate Majority Leader Dean G. Skelos, Senate Minority Leader John L. Sampson, Assembly Speaker Sheldon Silver, Assembly Majority Leader Ron Canestari, Assembly Minority Leader Brian M. Kolb, New York State Senators John J. Bonacic and William J. Larkin, Jr., New York State Assemblymen Kevin A. Cahill, Clifford W. Crouch, Peter Lopez and Thomas Kirwan, New York State Department of Environmental Conservation Acting Commissioner Joseph Martens, and the New York State Association of Counties,

and move its adoption.

ADOPTED AS AMENDED BY THE FOLLOWING VOTE:

AYES: 31 NOES: 0
(Absent: Legislators Felicello and Shapiro)

Legislator Zimet motioned, seconded by Legislator Madsen to amend the resolution adding the word "chemical" to the title and the first "RESOLVED" and adding New York State Assemblyman Cahill to the second "RESOLVED".

MOTION ADOPTED BY THE FOLLOWING VOTE:

AYES: 31 NOES: 0
(Absent: Legislators Felicello and Shapiro)

Resolution No. 74 March 15, 2011

Prohibiting The Leasing Of Any County-Owned Lands, Including But Not Limited To County Parks For High-Volume Chemical Slick-Water Hydraulic-Fracturing To Extract Natural Gas

FINANCIAL IMPACT:
NONE

0301

STATE OF NEW YORK
ss:
COUNTY OF ULSTER

This is to certify that I, the undersigned Clerk of the Legislature of the County of Ulster have compared the foregoing resolution with the original resolution now on file in the office of said clerk, and which was adopted by said Legislature on the 15th day of March, 2011, and that the same is a true and correct transcript of said resolution and of the whole thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of the County of Ulster this 18th Day of March in the year Two Thousand and Eleven.

/s/ Karen L. Binder
Karen L. Binder, Clerk
Ulster County Legislature

Submitted to the County Executive this
18th Day of March, 2011.

/s/ Karen L. Binder
Karen L. Binder, Clerk
Ulster County Legislature

Approved by the County Executive this
22nd Day of March, 2011.

/s/ Michael P. Hein
Michael P. Hein, County Executive

Local Law Number 6 Of 2012

County Of Ulster

A Local Law Of The County Of Ulster, New York Known As The “Hydraulic Fracturing Brine Prohibition Act”

BE IT ENACTED, by the County Legislature of the County of Ulster, New York, as follows:

A new Chapter, Chapter 306 is added to the Code of the County of Ulster to read as follows.

§306-1

Title. This Local Law shall be known by and may be cited as the “Hydraulic Fracturing Brine Prohibition Act”.

§306-2

Definitions. As used in this Chapter, the following terms shall have the following meanings:

“Application” shall mean the physical act of placing Brine on one or more County roads or one or more pieces of County property. Each physical act shall be deemed separate when the person committing the act stopping for any reason the placement of the Brine for any purpose, including but not limited to stopping a vehicle used in the placement of the Brine, stopping work for any reason, re-loading or replacing any material or equipment necessary to apply the brine.

“Brine” shall mean: (a) production brine; or (b) produced waters; or (c) flowback; or (d) flowback fluids; or (e), hydraulic fracturing fluid, any or all, which are generated as a result of drilling for, or seeking gas in wells including but not limited to High Volume Hydraulic Fracturing, as defined herein.

“Commissioner” shall mean: The Commissioner of the Department of Public Works except for the use of the word “commissioner” in Section 306-5 may mean any other commissioner designated by the County Executive or may mean the Commissioner of Public Works as determined by the County Executive.

“Flowback” shall mean liquids and solids produced during initial completion and clean-up of the well or clean-up of a well following a re-fracture or workover.

Local Law Number 6 Of 2012

County Of Ulster

**A Local Law Of The County Of Ulster, New York Known As The
“Hydraulic Fracturing Brine Prohibition Act”**

“Flowback fluids” shall mean liquids produced following drilling and initial completion and clean-up of the well or clean-up of a well following a re-fracture of workover.

“High Volume Hydraulic Fracturing” shall mean a natural gas well stimulation technique consisting of the injection into the earth of a water and chemical mix with the intent of increasing the ability to extract natural gas from very tight rock.”

“Hydraulic fracturing fluid” shall mean fluid used to perform hydraulic fracturing and includes the primary carrier fluid and all applicable additives.

“Municipality” shall mean the County of Ulster

“Production brine or produced waters” shall mean liquids co-produced during oil and gas production.

“Property” shall mean real property, improved or otherwise, which the County of Ulster owns or controls.

“Roads” shall mean public roads, streets, or bridges owned or controlled by the municipality.

§306-3

Use of Brine prohibited. No Brine shall be applied to or placed upon property or roads of the municipality. In any bid for materials, services, or equipment which relate to property maintenance or road improvements or road construction, the municipality in a bid specification or bid document describing the nature of the services or equipment sought, and any agency or division of the municipality, shall expressly state in capitalized, bold font, “THE PLACEMENT OF BRINE ON ANY ROAD OR PROPERTY OF THE COUNTY OF ULSTER IS UNLAWFUL. ANY BIDDER SHALL FILE A SWORN STATEMENT WITH THEIR BID THAT NO BRINE AS DEFINED BY LOCAL LAW OF THE MUNICIPALITY WILL BE SOLD TO THE MUNICIPALITY AS PART OF THE BID, OR UTILIZED ON OR PLACED ON ANY

PROPERTY OR ROAD OF THE COUNTY OF ULSTER. BIDDERS ARE DIRECTED TO CHAPTER 306 OF THE LAWS OF THE COUNTY OF ULSTER FOR THE DEFINITION OF BRINE.”

Local Law Number 6 Of 2012

County Of Ulster

**A Local Law Of The County Of Ulster, New York Known As The
“Hydraulic Fracturing Brine Prohibition Act”**

§306-4

Statement to be included in Bid. The Statement provided for in §306-3, which shall be a sworn statement under penalty of perjury, shall read substantially as follows:

“We, _____ hereby submit a bid for materials, equipment, or labor for the _____ of _____. The bid is for bid documents titled _____. We hereby certify under penalty of perjury that no Brine will be used by the undersigned bidder or any contractor, sub-contractor, agent, or vendor thereof in connection with the bid; nor will the undersigned Bidder or any sub-contractor, agent, or vendor thereof and/or therefor apply or supply any Brine to any property or road(s) of the County of Ulster as a result of the submittal of this bid if selected.” The Statement shall otherwise be sworn to under penalty of perjury in a form satisfactory to the County Attorney.

§306-5

Duty of Employees to be Familiar with this Chapter. The County Executive or, at the County Executive’s option, a department head of a commissioner of any Department appointed by the County Executive is authorized to develop policies to ensure county employees are familiar with this Chapter and take such steps as are directed by the County Executive or such department head or commissioner to ensure a diligent effort by the County that materials supplied to the County or used on County roads or property comply with this Law. This shall not excuse non-compliance by a contractor or vendor of the County.

§306-6

Penalties for Violations.

- A. Breach of Contract. A violation of the provisions of this Chapter shall be deemed a breach of contract and shall authorize the Director of Purchasing in cooperation with the County Attorney and any other officer or employee of the County deemed necessary by the County Attorney, commence a civil Breach of Contract action against the violator of the provisions of this Chapter. Damages sought shall be determined by the County Attorney but may include, but shall not be

Local Law Number 6 Of 2012

County Of Ulster

**A Local Law Of The County Of Ulster, New York Known As The
“Hydraulic Fracturing Brine Prohibition Act”**

limited to the cost of any consequential damages of the breach of contract. In addition, a determination by the Director of Purchasing that the contract was awarded through shall make a finding that the Contractor was not a responsible bidder and shall cause notice of such irresponsibility to be circulated in a form approved by the County Attorney to each other County in New York State. The County Attorney is further authorized to commence any necessary action to enjoin any violation of this Chapter he or she believes to be occurring.

- B. Criminal Penalties. In addition to prosecution for Perjury as determined by the District Attorney, any person who violates this article shall be guilty of an unclassified misdemeanor and subject to a fine not to exceed \$25,000.00 per violation and/or up to fifteen days' imprisonment. Each application of brine shall constitute a separate and distinct violation.

§306-7. Separability. If any sentence, clause, paragraph, subdivision, subparagraph, part or provision of this article or the application thereof to any person or circumstance be adjudged invalid by any court of competent jurisdiction, such judgment shall be confined in its operation to the part, provision or application directly involved in the controversy in which such judgment shall have been rendered and shall not affect or impair the validity of the remainder of this article or the application thereof to other persons or circumstances and the Legislature hereby declares that it would have enacted this article or the remainder thereof had the invalidity of such provision or application thereof been apparent.

§306-8

Effective Date. This act shall take effect 30 days after it shall have been filed with the Secretary of State.



**Appendices E1-E2:
Common Terms
Abbreviations and Definitions**

List of Commonly Used Abbreviations

BMPs	–	Best Management Practices
CCE-UC	–	Cornell Cooperative Extension of Ulster County
COB	–	County Office Building (244 Fair St., Kingston, NY)
CWA	–	Clean Water Act
DEC	–	New York State Department of Environmental Conservation
DoEnv	–	Ulster County Department of the Environment
DPW	–	Ulster County Department of Public Works
EPA	–	U.S. Environmental Protection Agency
GIS	–	Geographic Information System
GPS	–	Global Positioning System
IDDE	–	Illicit Discharge Detection and Elimination
IS	–	Ulster County Department of Information Services
MCC	–	Municipal Compliance Certification form
MCM	–	Minimum Control Measure
MEP	–	Maximum Extent Practicable
MS4	-	Municipal Separate Storm Sewer System
NOI	–	Notice of Intent
NPS	–	Non-Point Source Pollutants
NPDES	–	National Pollution Discharge Elimination System
NYC DEP	–	New York City Department of Environmental Protection
POC	–	Pollutants of Concern
SMO	–	Stormwater Management Officer
SOP	–	Standard Operating Procedures
SPCC	–	Spill Prevention and Control Countermeasures
SPDES	–	State Pollution Discharge Elimination System
SWMP	–	Stormwater Management Program
SWPP	–	Stormwater Pollution Prevention
SWPPP	–	Stormwater Pollution Prevention Plan
TMDL	–	Total Maximum Daily Load
UCRRA	–	Ulster County Resource Recovery Agency
UC SWCD	–	Ulster County Soil and Water Conservation District

General Definitions and Requirements

Best Management Practices (BMPs) – Activities or structural improvements that help reduce the quantity and improve the quality of stormwater runoff. BMPs include public education and outreach, treatment requirements, operating procedures, and practices to control runoff, spillage, leakage, sludge and waste disposal, and drainage from raw material storage.

Clean Water Act – Amendments made to the Federal Water Pollution Control Act in 1972 to establish water quality standards and to create the National Pollutant Discharge Elimination System to protect the waters and waterways of the U.S. by regulating the discharge of pollutants from point source discharges and municipal separate storm sewer systems.

Combined Sewer System – A sewer system designed to convey both sanitary wastewater and stormwater.

Detention Pond – Pond that stores a volume of water for a given period of time and then discharges the water downstream.

Discharge – An outflow of water from a stream, pipe, ground water system or watershed.

Ecosystem – All of the plants and animals in an area that interact to make up the local environment.

Erosion – The overall process of the transport of material on the earth's surface including the movement of soil and rock by agents such as water, wind, or gravity.

Groundwater – All of the water contained in void space beneath the earth's surface.

Heavy Metals – Metals such as zinc, copper, lead, mercury, chromium, cadmium, iron, manganese, nickel, molybdenum and silver that, even in low concentrations can be toxic or lethal to humans, animals and aquatic life.

Illicit Discharge – The term refers to any discharge to an MS4 that is not composed entirely of stormwater unless authorized via an NPDES permit or otherwise excluded from regulation. Thus, not all illicit discharges are illegal or prohibited.

Industrial Waste – Unwanted materials from an industrial operation, this may include liquids, sludge, solids, or hazardous waste.

Large Municipal Separate Storm Sewer System (Large MS4) – All municipal separate storm sewers that are located in an incorporated place with a population of 250,000 or more according to the latest Census.

Maximum Extent Practicable (MEP) – A water quality standard that applies to all MS4 operators under NPDES permits. The standard has no exact definition, as it was intended to be flexible to allow operators to tailor their stormwater programs to their particular site.

Medium Municipal Separate Storm Sewer System (Medium MS4) – This includes all municipal separate storm sewers that are located in an incorporated place with a population of more than 100,000 but less than 250,000.

Municipal Separate Storm Sewer Systems (MS4) – Areas with a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, and storm drains) that are not a combined sewer or part of a publicly owned treatment system

and are owned or operated and regulated by a municipality or authorized agency. MS4s may be small, medium or large with the medium or large MS4s being principally determined by population size.

Non-Point Source Pollutants (NPS) – Pollution coming from many diffuse sources whose origin is often difficult to identify. This pollution occurs as rain or snowmelt travels over the land surface and picks up pollutants such as fertilizer, pesticides, and chemicals from cars. This pollution is difficult to regulate due to its origin from many different sources. These pollutants enter waterways untreated and are a major threat to aquatic organisms and people who fish, use waters and waterways for recreational purposes or as an untreated drinking water source.

National Pollutant Discharge Elimination System (NPDES) – This is the EPA's regulatory program to control the discharge of pollutants to waters and waterways of the United States.

Notice of Intent (NOI) – An application to notify the permitting authority of a facility's intention to be covered by a general permit. This exempts a facility from having to submit an individual or group application.

Nutrients – The term typically refers to nitrogen and phosphorus or compounds containing free amounts of the two elements. These elements are essential for the growth of plant life, but can create problems in the form of algal blooms, depletion of dissolved oxygen and pH changes in streams and other water bodies when higher concentrations are allowed to enter drainage systems and lakes.

Ordinance – A law based on state statutory authority developed and approved by a governmental agency to allow them to regulate the enforcement of criteria contained within the specific law and to invoke sanctions and other enforcement measures to ensure facilities comply with the criteria.

Outfall – the point where a sewer or drainage discharges into a receiving waterway.

Point Source Pollution – This is pollution coming from a single, definable source, such as a factory.

Retention Pond – Pond that stores a volume of water without allowing it to discharge downstream.

Runoff – Any drainage that leaves an area as surface flow.

Sanitary Sewer – Is an underground pipe system that carries sanitary waste and other wastewater to a treatment plant.

Sediment – Material derived from the weathering of rock such as sand and soil. This material can be detrimental to aquatic life and habitats if too much is allowed to wash into rivers and ponds.

Site Plan – Is a geographic representation of the layout of buildings and other important features on a tract of land.

Small Municipal Separate Storm Sewer Systems (SMS4s) – Are MS4s that are not merely determined by population, but are much broader in scope, they are land areas with conveyances that are designated because of one or more of the following criteria: 1) they discharge to sensitive waters; 2) they are experiencing high growth or have a high growth potential; 3) they are contiguous to urbanized areas and other MS4s; 4) they are a significant contributor of pollutants to the waters of the U. S.; or 5) they have ineffective protection of water quality through other programs.

State Pollutant Discharge Elimination System (SPDES) – The state's regulatory program to control the discharge of pollutants to waters of the United States.

Storm Drain – Any drain which drains directly into the storm sewer system, usually found along

roadways or in parking lots.

Storm Sewer – Is an underground pipe system that carries runoff from streets and other surfaces.

Stormwater – Stormwater or snow melt runoff, and surface runoff and drainage.

Stormwater Management – Any measure associated with the planning, maintenance, and regulation of facilities which collect, store, or convey stormwater.

Stormwater Pollution Prevention Plan (SWPPP) – A plan developed by a facility or entity that thoroughly evaluates potential pollutant sources at a site and selects and implements appropriate best management practice measures designed to prevent or control the discharge of pollutants in stormwater runoff.

Surface Runoff – Is the flow of water across the land surface that occurs when the rainfall rate exceeds the ability of the soil to absorb the water. This is of primary concern when dealing with impervious surfaces, such as parking lots, roofs, roads, or driveways where water cannot infiltrate at all.

Surface Water – Is any water that remains on the earth's surface, such as ponds, rivers, streams, impoundments, wetlands, oceans, etc.

Total Maximum Daily Load (TMDL) – Is a regulatory limit of the maximum amount of a pollutant type that can be released into a body of water in a twenty-four hour period without adversely affecting water quality.

Tributary – A stream which drains into another larger stream or body of water.

Urbanized Area (UA) – Is a land area consisting of one or more central places and the adjacent densely settled surrounding area (urban fringe) that together have a residential population of at least 50,000 and a minimum average population density of at least 1,000 people per square mile.

Watershed – A geographic area in which water flowing across the surface will drain into a certain stream or river and flow out of the area via that stream or river, or all of the land that drains to a particular body of water, also known as a catchment or drainage basin.

Waters of the US – These are surface waters defined as wetlands, lakes (including dry lakes), rivers, streams (including intermittent streams, ephemeral washes and arroyos), mudflats, sandflats, sloughs, wet meadows, playa lakes, natural ponds, and man-made impoundments.

Wetlands – Is an area of land where part of the surface is covered with water or the soil is completely saturated with water for a large majority of the year. Wetlands provide an important habitat for many different types of plant and animal species. Wetlands are also natural stormwater control areas, since they filter out pollutants and are able to retain large amounts of water during storm events.