Pollution Prevention & Good Housekeeping for Municipal Operations





Andy Sansone Monroe County Department of Environmental Services

Municipal Pollution Prevention Program Requirements:

- Develop a program to reduce and prevent discharge of pollutants from municipal operations and facilities
- Implement Best Management Practices (BMPs)
- Develop measurable goals
- Training of Municipal Staff
- Annual Report to DEC



Categories of Municipal Operations Street & Bridge Maintenance



Categories of Municipal Operations Winter Road Maintenance





Categories of Municipal Operations Stormwater System Maintenance



Categories of Municipal Operations

Vehicle & Fleet Maintenance





Categories of Municipal Operations Parks & Open Space Maintenance





Categories of Municipal Operations Municipal Building Maintenance





Categories of Municipal Operations Solid Waste Management



Categories of Municipal Operations Streambank & Hydrologic Habitat Maintenance



Categories of Municipal Operations New Construction and Land Disturbances





Categories of Municipal Operations Right-of-Way Maintenance



Transitory Discharges









20.00







Monroe County Municipal Operations

- 21 Parks, 1 Marina
- 650 County Highway Miles
- 178 County Bridges
- 22 County Operated Buildings
- Fueling Operations
- Community College
- Fleet Maintenance
- Solid Waste Transfer Station
- Landfills
- 2 x WWTP's

Parks Department Self Assessment

			-	•		-	-	
Activity	Black Creek	Churc hville	Devils Cove	Durand Eastman	Ellis on	Genesee Valley	Greece Canal	Highl and
Grounds Maintenance								
Fertilizer Application		x		x		x		
Pesticide Application		x		x		x		x
Fertilizer and Pesticide Usage Records								
Integrated Pest Management Use		x		x		x		x
Erosion Control Practices	x	x		x	x	x	x	x
Recycling	x	x		x	x	x	x	x
Litter Control	x	x		x	x	x	x	x
Carry-in Carry Out only	x	x		x	x	x	x	x
Hazardous Materials Storage	x	x		x	x	x	x	x
Golf Course				x		x		
Prevention of Illicit Dumping	x	x		x	x	x	x	x
Staff have been trained re. Stormwater mgmt Principles								
Marina Maintenance								
Fuel Storage								
	I							

Spill Prevention and Response

Monroe County Parks Department Stormwater Management Plan

Parks to be addressed by the SWMP

Black Creek
Genesee Valley
Lehigh Valley
Ontario
Tryon

Churchville Greece Canal Mendon Powdermill Webster

Durand Eastman Highland Northampton Seneca Wetlands Ellison I-Bay Marine Oatka Seneca Park Zoo

Potential sources of pollution generated by operations and facilities.

Haza
Fuel
Septi
Build
Side
Resta
Road
Salt

Hazardous Waste Material Storage Fuel Storage/Dispensing Septic Systems Building Washing Sidewalk Salting Restaurants Road Salting Salt Vehicle Washing

Management practices already implemented that address stormwater quality

Integrated Pest Management	Litter Control
Recycling	Spill Planning
Alternative Products Usage	Sidewalk, Street, Parking Lot Sweeping
Inspection of on-site systems	Erosion Control Practices
Inspections of drainage system	Maint., repair system components
Recycle used automotive fluids	Sensitive, priority waterbody considerations

Typical Municipal Municipal Operations

- Highway Dept
- Parks
- Fueling Operations
- Sewer Dept
- Fleet Maintenance
- Solid Waste Collection
- Fire / Police
- Municipal Building

Monroe County Stormwater Coalition

Guidance to Developing an Effective Pollution Prevention and Good Housekeeping Program



Revised March 2010

Developing a Plan

Step 1: Understand What's Required

- Develop a Program
- Conduct an Assessment
- Establish Measurable Goals
- Select and Implement BMP's
- Report on Progress

Developing a Plan

Step 2: Develop an Inventory

Fixed Facilities:

DPW Garage, Municipal Buildings, Community Center, Fire Dept. etc

Operations:

Street Repair/Maint., Landscape Maint., Drainage System Operation, Animal Control





Fixed Facilities















Operations

11033 3

Sec. 190

Developing a Plan

Step 3: Conduct an Assessment

 Identify Facilities/Operations to be covered under the plan

Identify Existing BMP's

Determine Pollution Sources

Monroe County Fleet Center

145

Know Where the Water Goes

145

1535

1515

1525

Potential Pollutant Sources










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Pollutant Sources

Bulk Storage of Materials



Material Storage



Material Storage

ŝ

Sil

Pollutant Sources

Village of XYZ Stormwater Management Plan

Facilities to be Addressed

Municipal Garage Towpath Park Bridge Tenders Park Memorial Gazebo Park Shelter on Erie Canal Town Office Building Spencerport Depot and Canal Museum Spencerport Municipal Electric

Potential Sources of Pollution generated by Operations and Facilities

Street maintenance Road & Parking lot striping and painting Culvert maintenance Parking lot maintenance Road Salting Salt Storage Salt vehicle washing after winter Vehicle and equipment washing Vehicle and equipment repair work Stream Bank/Bed alterations Hazardous Material Storage Outdoor Fueling and Storage Pet Waste Bulk Material Storage Garbage/Litter in Open Spaces Outdoor Loading/Offloading Area Building Washing Outdoor liquid storage Sidewalk Maintenance

Management Practices already Implemented for Stormwater Quality

Recycling Litter Control Street sweeping Salt spreaders maintained and calibrated Fertilizers and Pesticides are not used Pet Waste Program Outdoor Trash Containers Covered Vehicle/Equipment repairs done indoors Vehicle/Equipment washing done indoors

Areas in Need of Future Management Practices

- Outside Diesel Fueling Stations practice to prevent excess fuel on ground
- Alternative material used instead of salt on roadways in winter
- Salt spread with considerations made to environmental impacts
- · A schedule and inspection form needed for pond inspection and maintenance
- A record keeping mechanism to track activities in stormwater systems each year
- (i.e. # of catch basins cleaned, miles of road swept per year)
- Preventative Maintenance schedule implemented
- Spill prevention and response plan
- Culvert maintenance protocol to lessen the impact in receiving water bodies
- Outdoor storage of bulk materials procedure is needed
- Loading/Offloading procedure

Developing a Plan

Step 4: Develop BMP's & Measurable Goals

Develop based on type of operation
Unified approach across operations
Implementation schedule

BMP Summary Sheet

Department Name: Category of Municipal Operations:

BMP Title:
BMP Description:
Measurable Goals:
Timeline/Implementation Schedule:
r
Specific Components and Notes:
Responsible Party for this BMP
Indicate who specifically is responsible for the implementation and monitoring of this
BMP. This should be the individual who is actively involved with the BMP.
Name:
Department:
Phone:
E-mail:

BMP Summary Sheet

Department Name:

Category of Municipal Operations: Vehicle and Fleet Maintenance

BMP Title: Vehicle and Equipment Cleaning

BMP Description:

- Mark the area clearly as a wash area, which should be covered or bermed to collect wash water and direct it to a treatment or disposal facility.
- Use biodegradable, phosphate-free detergents for washing vehicles as appropriate.
- Design wash areas to properly collect and dispose of wash water when engine cleaning is conducted and when chemical additives, solvents, or degreasers are used.
- Consider washing vehicles and equipment inside the building if washing must occur on-site.
- If washing must occur outside, use designated paved wash areas.
- If a paved area is not available for outdoor washing, it should be done over a gravel or grassed area with cold water and no soap.
- Cover the wash area when not in use to prevent contact with rain water.
- Consider filtering and recycling wash water.
- Discharge all wash water to a sanitary sewer, holding tank, or a process treatment system after consulting
 with the local sewer authority to find out if pretreatment is required.

Measurable Goals:

- Create and mark the wash area in your facility.
- Report number of facilities where proper disposal of wastewater has been implemented.
- Train fleet maintenance staff on policies, procedures, BMPs and stormwater management.

Examples of Measurable Goals

- Number of catch basins cleaned
- Number of facilities implemented
- Staff retraining or continuing education
- Policies ,procedures or BMP updates or revisions
- Number of alternative products adopted for use
- Reduction in fertilizer usage
- Number of sites that have been modified to discourage dumping

Developing a Plan

Step 5: Implementation Establish Priorities Is there an immediate threat to Water Quality ? Implement BMP's **Operational Structural** Staff Training Program Reporting **SWMPP** Requirements







Town of Perinton Outdoor Wash Bay

Think about a Pet Waste Program



Third Party Certification

- Performing Contracted Services
- Implement any Portion of SWMP
- Street Sweeping
- Plowing
- Lawn Care

Must have certification statement, contract or agreement

Consider GI in Municipal Operations

Look for Opportunities

Training, Training, Training



Shop Posters





	MS4 Annual Report Form	6575
T	his report is being submitted for the reporting period ending March 9, 2 0 1	4
1	If submitting this form as part of a joint report on behalf of a coalition leave SPDES ID blar	nk
	SPDES ID	
Name of MS	S4/Coalition TOWN OF BRIGHTON N Y R 2 0 A	164
		2010 - 2020
Minim	um Control Measure 6. Stormwater Management for Municipal Op	erations
The inform	nation in this section is being reported (check one):	
• On beha	lf of an individual MS4	
O On beha	If of a coalition	

L

1. Choose/list each municipal operation/facility that contributes or may potentially contribute Pollutants of Concern to the MS4 system. For each operation/facility indicate whether the operation/facility has been addressed in the MS4's/Coalition's Stormwater Management Program(SWMP) Plan and whether a self-assessment has been performed during the reporting period. A self-assessment is performed to: 1) determine the sources of pollutants potentially generated by the permittee's operations and facilities; 2) evaluate the effectiveness of existing programs and 3) identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it's not done already.

Salf. Accessment

			Operation/Activi performed within	ity/Facility
Operation/Activity/Facility	Addressed i	n SWMP?	years?	
Street Maintenance	• Yes	O No	O Yes	No
Bridge Maintenance.		O No	O Yes	• No
Winter Road Maintenance	• Yes	O No	O Yes	• No
Salt Storage	• Yes	O No	• Yes	O No
Solid Waste Management		O No	O Yes	• No
New Municipal Construction and Land Distu	rbance • Yes	O No	O Yes	• No
Right of Way Maintenance		O No	O Yes	No
Marine Operations	O Yes	• No	O Yes	O No
Hydrologic Habitat Modification		• No	O Yes	O No
Parks and Open Space		O No	Yes	O No
Municipal Building	• Yes	O No		O No
Stormwater System Maintenance		O No	O Yes	• No
Vehicle and Fleet Maintenance		O No		O No
Other	• Yes	O No	O Yes	O No

This report is being submitted for the reporting period endin	March 9 2 0 1 4
If submitting this form as part of a joint report on behalf of a coalitio	
The standing of the stand of the standing school of a common	SPDES ID
Name of MS4/Coalition TOWN OF REIGHTON	NYR20A164
	19 3019 3019 3019 3019 6016 1
7. Evaluating Progress Toward Measurable Goals MCM 6	
Use this page to report on your progress and project plans toward achievi identified in your Stormwater Management Program Plan (SWMPP), inc III.C.1. Submit additional pages as needed.	
A. Briefly summarize the Measurable Goal identified in the SWMPI	⁹ in this reporting period.
Televise storm & sanitary sewer to identify sources of 1/1 and structural Flush storm sewer to improve hydraulic characteristics. Repair mains and laterals to remove 1/1 and exfiltration of wastewater to Inspect and repair stormwater catch basins Stencil Storm inlets "no dumping"	286 153
B. Briefly summarize the observations that indicated the overall effe Goal	ctiveness o <mark>f this Measurable</mark>
14,200 lf of sanitary sewer and 7,195 lf of storm sewer was televised. 129,613 lf of sanitary sewer and 19,786 lf of sanitary sewer was flushed 23 sanitary sewer repairs @ 630 lf 17 sanitary lateral repairs @ 397 lf	and cleaned.
50 sanitary sewer manholes were reconstructed	
C. How many times was this observation measured or evaluated in t	his reporting period?
	10.00 million (2000) https://doi.org/10.000/million
D. Has your MS4 made progress toward this measurable goal durin	g this reporting period? Yes O No
D. Has your MS4 made progress toward this measurable goal durin; E. Is your MS4 on schedule to meet the deadline set forth in the SW.	• Yes O No
	 Yes O No MPP? Yes O No
E. Is your MS4 on schedule to meet the deadline set forth in the SW.	● Yes O No MPP? ● Yes O No goals of this MCM during

Only Rain.....

.....Down the Drain



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BMP Summary Sheet

Department Name:

Category of Municipal Operations: Stormwater System Maintenance

BMP Title:

Catch Basin/ Inlet Structures

BMP Description:

- Staff should regularly inspect the storm drain system to identify problems.
- Any deterioration threatening structural integrity should be immediately repaired.
- Catch basins should be cleaned before the sump is 40% full. Cleaning frequently should be scheduled as needed to meet this standard.
- Clean catch basins, inlets and other conveyance structures in high pollution load areas before the wet season to remove accumulated sediment and debris.
- Conduct inspections more frequently during wet season for problem areas where sediment or trash accumulates more often.
- Keep accurate logs of the number of catch basins cleaned and record the amount of waste collected.
- Store any collected waste appropriately away from inlets or streams. If waste is collected by vactor follow procedures for dumping of vactor waste.

Measurable Goals:

- Approximate quantity (tons or cubic yards) of material cleaned from structures
- Frequency of scheduled cleaning