



**MONTGOMERY COUNTY DEPARTMENT OF PARKS**  
THE MARYLAND - NATIONAL CAPITAL PARK AND PLANNING COMMISSION

MCPB Item # \_\_11\_\_

Date: 10/29/09

## MEMORANDUM

**TO:** Montgomery County Planning Board

**VIA:** Mary Bradford, Director of Parks  
Mike Riley, Deputy Director of Parks for Administration *MR*  
John E. Hench, Ph.D., Chief, Park Planning and Stewardship Division *J. Hench*  
Douglas Alexander, Acting Chief, Park Development Division *DA*

**FROM:** Geoffrey Mason, Senior Natural Resources Specialist, Park Planning and Stewardship Division  
Andy Frank, Environmental Engineering Supervisor, Park Development Division  
Doug Redmond, Principal Natural Resources Specialist, Park Planning and Stewardship Division

**DATE:** October 22, 2009

**SUBJECT:** Phase II NPDES Permit application for the Montgomery County Department of Parks

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### I. STAFF RECOMMENDATION

This item is brought to the Board for informational purposes only. It relates to a required stormwater permit that the Department of Parks is obligated to obtain under State and Federal regulations. No action is required by the Board.

### II. ISSUE DESCRIPTION

#### Background

*The Clean Water Act of 1972* established the National Pollutant Discharge Elimination System (NPDES) to reduce pollution discharged into waterways across the United States. Locally, the NPDES program is administered through the Maryland Department of the Environment (MDE), which issues permits for a variety of sites and activities. The Department of Parks maintains NPDES operation permits for each of its maintenance yards and obtains construction activity permits from MDE for all projects disturbing more than one acre.

*The Water Quality Act of 1987*, an amendment to the *Clean Water Act of 1972*, established a two-phase permit system to regulate stormwater discharges. The first phase relates to large, area-wide systems whereas the second relates to smaller, more restricted facilities. Montgomery County has had a Phase I Municipal Separate Storm Sewer Systems (MS4) Permit for the public storm drainage system throughout the County for more than a decade; this permit was recently updated. During the renewal process a question was raised about whether the Department of Parks was covered under the County's MS4 Permit. Based on discussions with MDE, it was determined that the Department of Parks was not

included under the County's Permit (as are Montgomery County Public Schools). Further, it was determined that the Department of Parks should obtain its own coverage under the Phase II General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems MDE Permit #05-SF-5501 (like the Washington Suburban Sanitary Commission, the National Institutes of Health and the University of Maryland).

### **III. Permit Application**

#### **A. Best Management Practices for the Six Minimum Control Measures**

The Phase II General Permit requires that the Department of Parks establish Best Management Practices (BMPs) and measurable goals for the following six Minimum Control Measures:

1. Personnel Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post Construction Stormwater Management
6. Pollution Prevention and Good Housekeeping

#### **B. Interdivisional Task Force**

In June 2009 the Department of Parks formed an Interdivisional Task Force with representatives from the Parks operational and administrative divisions to identify BMPs to include in the Notice of Intent (NOI) to be submitted to MDE to obtain the permit. The Task Force was co-chaired by Geoffrey Mason and Andy Frank, and the proposed BMPs were based on MDE guidance and permits issued for similar organizations. The Task Force met three times over the summer to develop a group of BMPs to include in the permit application.

#### **C. Best Management Practices Matrix**

The attached matrix (*Attachment 1*) lists the BMPs selected by the Department of Parks staff to fulfill the requirements of the General Permit, and this matrix will be the key tool by which the permit application and implementation success will be judged. The first column lists each minimum control measure, the second lists the associated BMPs selected, the third lists the measurable goals to be accomplished for each BMP, the fourth lists the implementation schedule, and the last column lists the responsible Department of Parks division that will lead the implementation.

One of the major BMP elements will be to map all of the stormwater conveyance systems throughout the Parks system and begin monitoring stormwater outfall pipes for illicit pollution discharges into streams. Along with mapping the systems, we will also be identifying older developments built without Stormwater Management (SWM) controls and developing projects to retrofit facilities that will improve water quality.

#### **D. Financial Implications (*Attachment 2 and 3*)**

1. **CIP:** During the CIP Work Session with the Board on September 10, 2009, the Park Development Division presented an updated PDF #078701 for Pollution Prevention and Repairs to Ponds & Lakes that included an annual increase of \$125,000 to implement several of the proposed BMPs. These items include efforts for mapping the existing storm drain systems, indentifying and prioritizing potential retrofit opportunities, and designing and constructing retrofit projects.

Depending on MDE's permit requirements, increased funding levels may be requested in the future.

2. **Operations:** Additional staff will need to be considered for operations funding to fulfill the listed BMPs. If additional funds are not approved, implementation of the permit requirements would require reprioritization of current staff assignments.

#### **IV. Coordination**

Department of Parks staff has met with the Maryland Department of the Environment for guidance on the permit process. Staff has also met with the Montgomery County Stormwater Partners Coalition to discuss the permit application. See the BMP matrix (*Attachment 1*) for the Stormwater Partners' comments on the Department of Parks proposed Notice of Intent.

#### **V. Next Steps**

Prior to the November 12, 2009 deadline, the Department of Parks plans to submit its Notice of Intent (NOI) to MDE for coverage under the General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4) to be included in MDE's program as they begin the reissuance process. We understand that MDE will consider our application along with public input and provide comments on how our proposal fulfills the permit requirements. We anticipate the process will conclude and a permit be issued sometime in the first half of 2010, and we will begin BMP implementation in FY11.

PC Al Astorga  
Gene Giddens  
Jayne Hench  
Mike Horrigan  
Darien Manley  
John Nissel  
David Vismara  
Brian Woodward

## Attachment 1

### M-NCPPC Montgomery County Department of Parks: Draft Matrix of Best Management Practices (BMPs) for Phase II Notice of Intent (NOI)

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
Personnel Education and Outreach	Train operational staff in Pollution Prevention every year.	Hold four annual Pollution Prevention trainings (1 each) for Northern Region, Southern Region, Horticultural Services and Central Maintenance operational staff.	Ongoing, FY 2011-2015	Park Planning and Stewardship Division, Natural Resources Stewardship
Personnel Education and Outreach	<b>Park Language:</b> Develop training materials and educational program for Best Environmental Practices.	Training materials developed and educational program in place.	FY 2011 Develop training materials. FY 2012-2013 Do educational outreach to operational staff.	Park Planning and Stewardship Division, Natural Resources Stewardship and Park Development Division
	<b>Stormwater Partners Language:</b> Develop training materials and educational program for Best Environmental Practices including sustainable landscaping, ecological land management and stormwater reduction practices.			
	<b>Park Position:</b> Accept Proposed Change. Will explore developing a web-based certification program for Best Environmental Practices.			
Personnel Education and Outreach	<b>Park language:</b> Train operational staff in Best Environmental Practices.	Hold four annual Best Environmental Practices Workshops (1 each) for Northern Region, Southern Region, Horticultural Services and Central Maintenance operational staff.	FY 2011 Develop training materials. FY 2012-2013 Hold Annual Workshops.	Park Planning and Stewardship Division, Natural Resources Stewardship
	<b>Stormwater Partners Language:</b> Train operational staff in Best Environmental Practices including sustainable landscaping, ecological land management and stormwater reduction practices.			
	<b>Park Position:</b> Accept Proposed Change			
Personnel Education and Outreach	<b>Park Language:</b> None			
	<b>Stormwater Partners Language:</b> Revise Parks personnel hiring and advancement policies and procedures to incorporate performance metrics related to Best Environmental Practices	<b>Stormwater Partners Language:</b> Approve revised personnel policy and procedures that incorporates performance metrics for Best Environmental Practices.	<b>Stormwater Partners Language:</b> FY 2011 Draft revised personnel policy and procedures. FY 2012 Implement	Respective Divisions

*Montgomery County Parks - Park Planning and Stewardship Division*

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
	including sustainable landscaping, ecological land management and stormwater reduction.		revised personnel policy and procedures.	
	<b>Park Position:</b> Do not include in permit application. Will be a topic of future discussion.			

<b>Public Involvement and Participation</b>	Meet with Stormwater Partners quarterly to discuss NPDES permit progress	Meet four times per year with Stormwater Partners	FY 2011-2015	Park Planning and Stewardship Division, Park Development Division
<b>Public Involvement and Participation</b>	Stream Trash Cleanups	Each year Volunteer Services will participate in four major trash cleanup days. Do ten additional regular cleanups.	Ongoing, FY 2011-2015	Special Programs Division, Volunteer Services
<b>Public Involvement and Participation</b>	Put Pollution Prevention information including pet waste management on M-NCPPC public webpage.	Assemble and post Stormwater Pollution Prevention info on Montgomery Parks' website.	FY 2011	Park Planning and Stewardship Division
<b>Public Involvement and Participation</b>	Start Storm Drain Labeling Program for Park Storm Drains.	Establish volunteer labeling program	<b>Park Language:</b> FY 2011- Start Program, FY2012-2015 Do at least one labeling project each year.	Special Programs Division, Volunteer Services
			<b>Stormwater Partners language:</b> FY 2011- Start Program, FY2012-2015 Label at least 100 storm drains each year.	
			<b>Park Position:</b> Accept proposed change adding "dependent on volunteer labor".	
<b>Public Involvement and Participation</b>	Start Storm Drain Labeling Program for Park Storm Drains.	Incorporate Storm Drain Inlet Labeling into construction specifications for new park development projects.	FY 2011 Develop Specifications	Park Development Division

*Montgomery County Parks - Park Planning and Stewardship Division*

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
<b>Illicit Discharge Detection and Elimination</b>	Map park storm drain system over a five year period.	Create a GIS map that includes the entire parks storm drain system.	FY 2011-2015	Montgomery Parks will work with county DEP to extract existing info on parks stormwater system. Staff or contractor will go through plans and record the information into a GIS map layer.
<b>Illicit Discharge Detection and Elimination</b>	Develop process with County DEP to use the County Hotline. Create internal Standard Operation Procedure (SOP) for responding to spills or illicit discharges on Park lands.	Establish SOP and agreement with County DEP.	FY 2011 M-NCPPC will begin development of SOP upon permit issuance with an expected completion within 1st year.	All Divisions
<b>Illicit Discharge Detection and Elimination</b>	Develop a stormwater outfall monitoring program to detect illicit discharges in the park storm drain system that is consistent with Montgomery County DEP program.	Create Program. Determine appropriate number of outfalls to visit each year.	FY 2011-2012 Start coordination with DEP. FY 2013-2015 Do monitoring.	Park Planning and Stewardship Division
<b>Construction Site Runoff Control</b>	Develop comprehensive erosion and sediment control plans to reduce erosion from construction sites.	All projects will receive required erosion and sediment control permits from the Montgomery Department of Permitting Services. In addition to regular inspections of construction sites by DPS, MNCPPC construction inspectors make regular visits to construction sites on parkland to inspect erosion and sediment control devices, limit of disturbance fencing, and tree protection measures.	Ongoing, FY 2011-2015	Park Development Division

*Montgomery County Parks - Park Planning and Stewardship Division*

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
<b>Construction Site Runoff Control</b>	Develop Standard Operation Procedure Guidelines for Small Land Disturbance that does not require a permit (under 5,000 sq. feet).	<b>Park Language:</b> Guidelines approved and being used.	Develop Guideline in FY 2011, Ongoing in FY 2011-2015.	Park Planning and Development and Central Maintenance Divisions
		<b>Stormwater Partners Language:</b> Guidelines approved and being used. Require same day stabilization of exposed areas, via low cost and cost effective applications of mulch, straw, erosion control blankets and/or other measures.		
		<b>Park Position:</b> Agree in principle. Methods of same day stabilization will be considered and incorporated into guidelines as appropriate.		
<b>Post Construction Stormwater Management</b>	Ensure all stormwater management facilities on Parkland are monitored and properly maintained to provide maximum stormwater treatment efficiency.	All SWM facilities on parkland must be accepted into the County DEP SWM management program. Once accepted, DEP monitors and maintains facilities in accordance with DEP Guidelines. MNCPPC is notified of inspection results and must address maintenance issues in order to stay in the DEP Program.	FY 2011-2015 All facilities currently inspected on a rotational basis developed by DEP	DEP is responsible for structural maintenance and M-NCPCC is responsible for non-structural maintenance. Horticultural Services Division coordinates non-structural maintenance among Park Divisions
<b>Post Construction Stormwater Management</b>	Develop Scope of Maintenance for Storm Water Structures	Develop and adopt written policies for Maintenance for Storm Water Structures.	FY 2011-2015	Park Development Division
<b>Post Construction Stormwater Management</b>	Design new projects to reduce impacts to water resources and the environment.	<b>Park Language:</b> New projects will incorporate the goals of Environmental Site Design and Sustainable Site Initiative concepts.		
		<b>Stormwater Partners Language:</b> New projects will be based on Environmental Site Design (ESD) according to State and local stormwater and other regulations under the Stormwater Management Act of 2007. Park Design Manual will be revised within one year of effective date of permit to incorporate ESD requirements and regulations.		
	<b>Park Position: Agree.</b> The permit will be changed to include the first sentence. The second sentence does not need to be incorporated into the permit because ESD will become State law on May 4, 2010 and Parks will fully comply.			

*Montgomery County Parks - Park Planning and Stewardship Division*

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
<b>Post Construction Stormwater Management</b>	Provide stormwater management for untreated impervious surfaces on parkland.	<b>Park Language:</b> All untreated parkland areas will be cataloged during the mapping process and untreated areas will be prioritized.	FY 2011-2012 ID and prioritize sites for retrofits. FY 2013-2015 Initiate stormwater retrofits.	Park Development Division
		<b>Stormwater Partners Language:</b> All untreated parkland areas will be cataloged during the mapping process and untreated areas will be prioritized. Retrofit 30% of existing untreated impervious surfaces in five year permit cycle.	<b>Stormwater Partners Language:</b> FY 2011 ID and prioritize sites for retrofits. FY 2012-2015 Initiate stormwater retrofits. Priority of LID/ESD retrofits (bioretention, green roofs, permeable pavement, rain gardens) and then ecologically sensitive stream restoration and SW pond retrofits with more vegetation.	
	<b>Park Position:</b> Parks cannot commit to a percentage of impervious stormwater retrofitting until retrofit opportunities are identified, funding needs are established and funds are appropriated. Accept the proposed schedule change. Regarding the prioritization process, Parks considers many factors when prioritizing retrofit projects including the type of retrofit, site-specific conditions, and the environmental setting.			
<b>Post Construction Stormwater Management</b>	<b>Park Language:</b> None	<b>Park Language:</b> None		
	<b>Stormwater Partners Language:</b> Identify environmentally sensitive areas and write sensitive area building prohibitions into Parks Design Manual/Guidelines.	1. Within six months of the effective date of the permit, identify sensitive areas in which any new building, clearing or grading is prohibited; such areas to include wetlands, woodlands, riparian and floodplain zones and upland meadows. 2. Within one year of the effective permit date, include sensitive building prohibitions into the Park Design Manual/Guidelines.		
	<b>Park Position:</b> Do not include change in the permit application. Parks is committed to the best stewardship of Sensitive Areas as defined by Article 66 B of the Annotated Code of Maryland. Park Development Division adheres to the "Environmental Guidelines-Guidelines for Environmental Management of Development in Montgomery County", 2000. This process is facilitated by the Natural Resource Atlas GIS tool, which is used to identify sensitive areas during the planning and design phases of park projects. In addition, all Park projects move through the appropriate approval and regulatory permitting processes.			



*Montgomery County Parks - Park Planning and Stewardship Division*

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
<b>Pollution Prevention and Good Housekeeping</b>	All 12 Maintenance Yards currently under general permit for Industrial Sites. The SWPPPs identify operational and CIP improvements for each site.	All 12 Park Maintenance Yards under Storm Water Pollution Prevention Plans. Annual inspections and reviews are conducted.		NPDES Coordinator/ Park Development Division Environmental Engineering Section
<b>Pollution Prevention and Good Housekeeping</b>	All 5 equestrian centers applying for Nutrient Management Plans to reduce nutrient runoff to waterways.	Maintain Nutrient Management Plans for Ag leases and equestrian centers	Ongoing, FY 2011-2015	Facility Management Division
<b>Pollution Prevention and Good Housekeeping</b>	Equestrian Centers Sediment Control Projects to reduce sediment and nutrient runoff to streams.	Equestrian Centers- Complete Maryland Agricultural Water Quality Cost-Share Program (MACS) water quality improvements at five equestrian centers	In process, at various stages, FY 2011-2015	Facility Management Division
<b>Pollution Prevention and Good Housekeeping</b>	Pesticide Safety and Integrated Pest Management	Staff adheres to State and Federal regulations and M-NCPPC "Pesticide Safety and IPM" procedures.	Ongoing, FY 2011-2015	Horticultural Services Division, Northern and Southern Regions.
<b>Pollution Prevention and Good Housekeeping</b>	Reforestation Program	<b>Parks Language:</b> Plant 5-10 acres of trees per year to reduce and filter stormwater runoff.	Ongoing, FY 2011-2015	Park Planning and Stewardship, Horticultural Services Division, Northern and Southern Regions and contractors.
		<b>Stormwater Partners Language:</b> Plant 20 acres of trees per year to reduce and filter stormwater runoff.		
		<b>Park Position:</b> Do not include change in the permit application. Parks agrees that reforestation is beneficial; however staff will be guided by resource management plans and available funding.		
<b>Pollution Prevention and Good Housekeeping</b>	Develop Pet Waste Management Program to reduce pet waste runoff to waterways.	Install 20 pet waste bag dispensers in parks over permit cycle.	Ongoing, FY 2011-2015-Two installations per year where community organizations will take responsibility for stocking and maintenance. Dispensers will be obtained through Public Private Partnership.	Northern and Southern Region Staffs

*Montgomery County Parks - Park Planning and Stewardship Division*

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
<b>Pollution Prevention and Good Housekeeping</b>	<b>Park Language:</b> None	<b>Park Language:</b> None	<b>Park Language:</b> None	<b>Park Language:</b> None
	<b>Stormwater Partners Language:</b> Train Park Police in pet waste law to increase pet waste enforcement and reduce pet waste runoff to waterways.	<b>Stormwater Partners Language:</b> Train Park Police in enforcement of pest waste law. Hold three trainings.	<b>Stormwater Partners Language:</b> Hold three trainings by 2015.	
	<b>Park Position:</b> Accept proposed change and use the following language, "Educate Park Police staff about the environmental impacts of pet waste. Hold three trainings." <b>M-NCPPC Rules and Regulations</b> <b>CHAPTER V: Regulation of General Conduct and Personal Behavior (Code of Conduct)</b> Section 20. Domesticated Animals B. Persons bringing any animal upon Park Property are responsible for immediate cleanup and removal of the animal's defecation.			Park Planning and Stewardship Division
<b>Pollution Prevention and Good Housekeeping</b>	<b>Park Language:</b> None			
	<b>Stormwater Partners Language:</b> Develop Pet Waste Education Program to reduce pet waste runoff to waterways.	Produce and distribute public education messages in English and Spanish on the pet waste law. Reach at least 100,000 people per year through a combination of electronic and print media, with at least 5 repeated messages on pet waste law, disposal methods and public health impacts of pet waste.	2011 Develop educational materials. 2012-2015 Do educational spots in electronic and print media.	Park Planning and Stewardship and Park Information and Customer Service Division
	<b>Park Position:</b> Agree in principle. Public education on pet waste will be incorporated into the Public Involvement and Participation item entitled "Put Pollution Prevention information on M-NCPPC public webpage".			
<b>Pollution Prevention and Good Housekeeping</b>	Salt Management Practices	Use environmentally friendly salt on sidewalks and walkways to reduce salt impact on streams.	Buy environmentally friendly salt for use on sidewalks and walkways.	Northern and Southern Region, Central Maintenance Staff
<b>Pollution Prevention and Good Housekeeping</b>	Canada Geese population control	Oil Canada Geese eggs in four parks under federal permit to control population to reduce goose manure in waterways.	Ongoing, FY 2011-2015	Park Planning and Stewardship Division, Natural Resources Stewardship
<b>Pollution Prevention and Good Housekeeping</b>	Deer population control	Hold managed hunts in ten parks and police based sharpshooting in ten additional parks, reducing the deer population and deer manure runoff to waterways.	Ongoing, FY 2011-2015	Park Planning and Stewardship Division, Natural Resources Stewardship
<b>Pollution Prevention and Good Housekeeping</b>	Review lease agreements and concessionaire's agreements to ensure compliance with this permit.	Create new guidelines for lease agreements and concessionaires on pollution prevention.	FY 2011-2012 Review lease and concessionaire agreements and draft new guidelines	Facility Management Division

*Montgomery County Parks - Park Planning and Stewardship Division*

Minimum Control Measures	Best Management Practices (BMPs) Selected	Measurable Goals	Implementation and Completion Date	Responsibility
<b>Other: Stream Monitoring</b>	Countywide Stream Protection Strategy- Stream Monitoring conducted on 25 sites each year by M-NCPPC and 75 sites by the County DEP. M-NCPPC and DEP staff work as team for monitoring purposes.	100 sites monitored by DEP and M-NCPPC monitoring teams.	Ongoing, FY 2011-2015	M-NCPPC Park Planning and Stewardship Division and DEP
<b>Other: Stream Restoration Projects</b>	Reduce Erosion by Stabilizing Stream Banks in Parks	Completion of planned restoration projects.	Ongoing, FY 2011-2015	Park Development Division
<b>Other: Total Maximum Daily Loads (TMDL)</b>	<b>Park Language:</b> None			
	<b>Stormwater Partners Language:</b> Contribute to Montgomery County DEP's Total Maximum Daily Load Implementation Plan.  <b>Park Position:</b> Use following language "Coordinate with Montgomery County DEP on TMDL Watershed Implementation Plan and Trash-Free by 2013 Potomac Watershed Treaty."	Partner with DEP to contribute to DEP's TMDL implementation plan including the Trash-Free by 2013 Potomac Watershed Treaty.  Hold meetings with DEP to coordinate on TMDL Watershed Implementation Plan and Trash-Free by 2013 Potomac Watershed Treaty.	Ongoing, FY 2011-2015	Park Planning and Stewardship Division and Park Development Division
<b>Other: Wetland Creation</b>	<b>Park Language:</b> None			
	<b>Stormwater Partners Language:</b> Wetland/vernal pool creation	Inventory and prioritize sites for wetland/vernal pool creation.		
	<b>Park Position:</b> Accept proposed language. Sites would need to be identified in Park Master Planning Process. Would need additional funds so it would not compete with other SW Pollution Projects. Timing would be dependent on park master planning process.			Park Planning and Stewardship Division

## Attachment 2

### Fiscal Analysis for Phase II NPDES Compliance

#### Capital Improvement Plan Funding

The Board has approved an annual increase of \$125,000 to PDF #078701 Pollution Prevention and Repairs to Ponds and Lakes. See attached PDF.

Phase II NPDES Tasks	Division	Annual Cost
Mapping (Scanning and transferring to GIS layers)	Park Development Division	\$40,000
Identifying and Prioritizing Potential Retrofit Opportunities for Imperious Surfaces	Park Development Division	\$10,000
Design and Construct Storm Water Management Retrofit Projects	Park Development Division	\$75,000
<b>Total</b>		<b>\$125,000</b>

#### Operational Funding

During discussions of the operations budget request for FY11 the following positions will need to be considered for funding from the Park Fund.

Minimum Control Measure	Phase II NPDES Tasks	Job Title	Division	Work Year	Annual Salary	Annual Cost with Benefits
<b>Personnel Education and Outreach</b>	Develop Training Materials and Organize Environmental Best Management Practices for Operational workers.	Natural Resources Specialist	Park Planning and Stewardship	1	\$56,842	\$73,895
<b>Illicit Discharge Detection and Elimination</b>	Do mapping of stormwater conveyance system and inspect stormwater outfalls for illicit discharges.	Engineer (Assume 60% charge back)	Park Development	1	\$29,227	\$37,995
<b>Pollution Prevention and Good Housekeeping</b>	Coordinate and carry out stream trash cleanups, install and maintain trash catchers, maintain bioretention areas, swales and outfalls, implement composting and compost application.	Park Maintenance Worker III	Northern Region	1	\$44,730	\$58,149
<b>Pollution Prevention and Good Housekeeping</b>	Coordinate and carry out stream trash cleanups, install and maintain trash catchers, maintain bioretention areas, swales and outfalls, implement composting and compost application.	Park Maintenance Worker III	Southern Region	1	\$44,730	\$58,149
<b>Public Involvement and Participation</b>	Organize stream trash cleanups and storm drain labeling programs	Volunteer Coordinator	Special Programs Division (Volunteer Services)	.55	\$15,000	\$19,500
<b>Totals</b>				<b>4.55</b>	<b>\$190,529</b>	<b>\$247,688</b>

**Additional money from the Park Fund will be requested for supplies and services.**

<b>Personnel Education and Outreach</b>	Develop web-based training for certification of staff in Best Environmental Practices	\$15,000 over five year permit cycle
<b>Public Involvement and Participation</b>	Storm Drains Labels	\$2500 over five year permit cycle
<b>Public Involvement and Participation</b>	Additional bags and gloves for stream cleanups	\$2500 over five year permit cycle
<b>Pollution Prevention and Good Housekeeping</b>	Pet Waste Management Bag Dispensers	\$8,300 over five year permit cycle Further public-private partnerships will be explored to obtain dispensers.

\$28,300 total over five year permit cycle

# Attachment 3

## Pollution Prevention and Repairs to Ponds & Lakes

### Pollution Prevention and Repairs to Ponds & Lakes -- No. 078701

Category	M-NCPPC	Date Last Modified	October 08, 2009
Subcategory	Development	Required Adequate Public Facility	No
Administering Agency	M-NCPPC	Relocation Impact	None
Planning Area	Countywide	Status	On-going

#### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY09	Est. FY10	Total 6 Years	FY11	FY12	FY13	FY14	FY15	FY16	Beyond 6 Years
Planning, Design, and Supervision	1,104	0	204	900	150	150	150	150	150	150	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	3,808	0	958	2,850	475	475	475	475	475	475	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>4,912</b>	<b>0</b>	<b>1,162</b>	<b>3,750</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>*</b>

#### FUNDING SCHEDULE (\$000)

Current Revenue: General	1,162	0	1,162	0	0	0	0	0	0	0	0
G.O. Bonds	3,750	0	0	3,750	625	625	625	625	625	625	0
<b>Total</b>	<b>4,912</b>	<b>0</b>	<b>1,162</b>	<b>3,750</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>625</b>	<b>0</b>

#### OPERATING BUDGET IMPACT (\$000)

Cost Savings				-32	-8	-8	-8	-8	0	0
Maintenance				25	4	7	7	7	0	0
Program-Other				2	1	1	0	0	0	0
Program-Staff				60	15	15	15	15	0	0
<b>Net Impact</b>				<b>55</b>	<b>12</b>	<b>15</b>	<b>14</b>	<b>14</b>	<b>0</b>	<b>0</b>
WorkYears					0.3	0.3	0.3	0.3	0.0	0.0

#### DESCRIPTION

This PDF funds continuing efforts to update and maintain our existing facilities to meet today's standards and enhance environmental conditions throughout the park system. M-NCPPC operates 12 maintenance yards (MY) throughout Montgomery County that are regulated as "industrial sites" under NPDES because bulk materials storage and equipment maintenance have the potential to pollute surface waters. Each MY is subject to NPDES regulations, and must have a Stormwater Pollution Prevention Plans (SWPPPs) in place. SWPPPs are generally a combination of operational efforts and capital projects, such as covered structures for bulk materials and equipment, vehicle wash areas, or stormwater management facilities. In addition, M NCPPC has identified between 60 and 70 existing farm ponds, lakes, constructed wetlands, irrigation ponds, recreational ponds, nature ponds, and historic dams on park property that do not qualify for funding through Montgomery County's Water Quality Protection program. Based on the results of field inspections, projects are prioritized for design, permitting, and construction. M NCPPC is currently working with MDE to enter into a countywide NPDES Phase II to establish pollution prevention measures to mitigate stormwater runoff that originates on Parkland. This new permitting requirement will involve additional efforts to identify untreated areas and develop appropriate Best Management Practices (BMPs) to control stormwater runoff and enhance water quality.

#### Estimated SCHEDULE

IN FY11 AND FY12, DESIGN AND CONSTRUCT VEHICLE WASH UNIT SEWER CONNECTIONS AT BLACK HILL AND SOUTH GERMANTOWN MAINTENANCE FACILITIES; DESIGN AND CONSTRUCT NEW VEHICLE WASH FACILITY AT MEADOWBROOK AND LITTLE BENNETT; ON GOING INSPECTIONS OF FARM PONDS. INI

#### COST CHANGE

COST INCREASE DUE TO ADDITION OF NPDES PERMIT REQUIREMENTS TO THE SCOPE OF THIS PROJECT.

#### JUSTIFICATION

The NPDES "General Discharge Permit for Stormwater Associated with Industrial Facilities, Permit No. 02 SW" issued by the Maryland Department of the Environment (MDE), requires implementation of the SWPPPs at each MY. The MDE Dam Safety Program requires regular aesthetic maintenance, tri-annual inspection, and periodic rehabilitation of all pond facilities to maintain their function and structural integrity.

#### FISCAL NOTE

IN FY10, \$142,000 (GENERAL OBLIGATION BONDS) WAS TRANSFERRED IN FROM POPE FARM NURSERY UTILITIES UPGRADE PDF 058707.

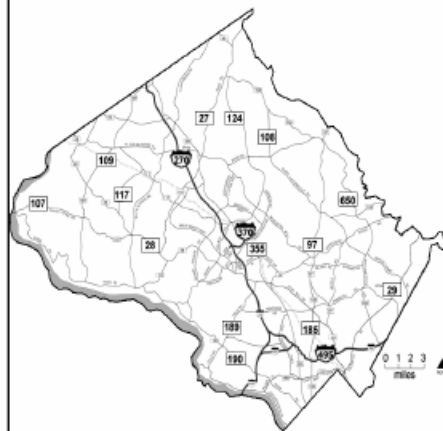
- \* Expenditures will continue indefinitely.

#### APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY07	(\$000)
First Cost Estimate		
Current Scope	FY07	3,000
Last FY's Cost Estimate		3,429
Appropriation Request	FY11	625
Appropriation Request Est.	FY12	625
Supplemental Appropriation Request		0
Transfer		142
Cumulative Appropriation		1,020
Expenditures / Encumbrances		205
Unencumbered Balance		815
Partial Closeout Thru	FY08	571
New Partial Closeout	FY09	409
Total Partial Closeout		980

#### COORDINATION

Montgomery County Department of Permitting Services (MCDPS)  
Montgomery County Department of Environmental Protection (MCDEP)  
Maryland Department of the Environment  
Washington Suburban Sanitary Commission (WSSC)



Agency Request

10/8/2009 8:45:02AM