

HURON - CLINTON METROPOLITAN AUTHORITY



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February 15, 2011

Water Bureau, Department of Environmental Quality
27700 Donald Court
Warren, MI 48092-2793

Re: Storm Water Management Plan (SWMP) Annual Progress Report
National Pollution Discharge Elimination System (NPDES)
Certificate of Coverage (COC) No. MIS040057-58

To Whom It May Concern:

We hereby submit our SWMP Progress Report for 2009 and 2010. The Report includes activities undertaken in compliance with Certificate of Coverage Numbers MIS040057/58 and provides details on individual activities, their locations, the SWMP requirements met by them and other information.

The Report includes compilations of activities undertaken by various departments within the Huron-Clinton Metropolitan Authority (HCMA). The HCMA Engineering Department, having primary responsibility for Phase 2 SWMP compliance, has prepared a report detailing major activities which it completed in 2009 and 2010, along with activities in progress for 2011 and planned future activities.

Other departments in the HCMA, including Park Operations, Interpretive Services, Commutations and Information Systems have prepared their activity reports on standard forms provided by the HCMA Engineering Department for their use. By having our individual departments report on activities which they performed, our goal is to increase awareness of and commitment to good stewardship in storm water management throughout our organization.

Specifically addressing the requirements of the MIS040000 General Permit, Part 1.C.1.c., please note the following.

1) There are 54 'outfalls' within the urbanized areas. Within the last five years, 100% of these outfalls have been screened. No illicit discharges exist or were removed within the Authority's jurisdiction under the COC; the appropriateness of BMPs is as indicated in the activity reports where applicable.

February 15, 2011

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2) Monitoring and assessment of water quality in lakes and streams within the Authority's jurisdiction under the COC continues as it has in the past, and no obvious changes in water quality are apparent.

3) No water quality stresses have been identified.

4) A summary of upcoming SWMP activities is included in the Report.

5) No changes are planned in 2011 for identified BMPs or measurable goals.

6) No changes are needed with respect to reliance on other permitted drainage system operators.

7) No areas were added to the drainage system due to annexation or other statutory process.

8) Special Reporting Requirements are not applicable to HCMA.

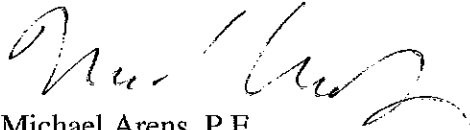
9) No changes have been made to the SWPM contact person.

10) The Report is signed by a duly authorized representative of HCMA.

We trust this report satisfies the requirements of the Department of Environmental Quality. If you have any comments or questions, please contact the undersigned at 810-227-2757 ext. 6045.

Sincerely,

Huron-Clinton Metropolitan Authority

A handwritten signature in black ink, appearing to read "Michael Arens", written over a horizontal line.

Michael Arens, P.E.
Chief Engineer

Encl.

cc: P. Muelle
G. Almas
D. Moilanen

DAVID C. MOILANEN, *Director*
GREGORY J. ALMAS, *Deputy Director*
DAVID L. WAHL, *Controller*
GEORGE PHIFER, *Executive Secretary*

Administrative Offices
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February 15, 2011

Stephanie Barney
DEQ Water Bureau 4N
525 W Allegan
P.O. Box 30242
Lansing, Michigan 48909
via e-mail

RE: 2009-10 Storm Water Management Plan (SWMP) Annual Progress Report
Certificate of Coverage No. MIS040057 and MIS040058

Dear Ms. Barney:

Please find enclosed the Huron-Clinton Metropolitan Authority's (HCMA) 2009-10 Progress Report for the above referenced storm water permits. Should you have any questions concerning the report, please feel free to contact the undersigned.

Sincerely,

Huron-Clinton Metropolitan Authority

Andrew D. Caulk, PE
Design Engineer

CC: Mike Arens, PE, Chief Engineer
Paul Muelle, Chief of Natural Resources



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

For Period: January 2009 to December 2010
Department: Engineering
Responsibility: Facility construction, repair, maintenance, contract administration, construction supervision, construction documents and standards

I. ACTIVITIES COMPLETED – 2009-10

Authority-Wide

- **USGS Water Resources Information Program**
Provide cost share on a 50-50 basis with the United States Geological Survey (USGS), in cooperation with the Michigan Department of Environmental Quality (MDEQ), for funding gauging stations along the Huron River (3 stations) and Stony Creek (4 stations). This program provides crucial hydrologic data for the watershed management activities of local, state and federal agencies. These activities will aid in determining which BMPs are appropriate and the effectiveness of these BMPs on improving water quality within the watersheds.
- **Beyond the Illicit Discharge Study and Report**
In addition to monitoring outfalls covered under our Certificates of Coverage No. MIS040057, the HCMA initiated an Authority-wide survey to inspect and document all existing stormwater outfalls, culverts and drainage courses throughout the park system. This survey has allowed the HCMA to document stormwater structures and will insure that the HCMA continues to be proactive in protecting the Waters of the State. Inspection throughout the Park System is on-going, but several Park areas have been completed and the information from these areas has allowed revisions to the scope of inspections.
- **Employee Education**
Presentation was given to new Director concerning Phase II Stormwater and Pollution Prevention at Maintenance yards. Full time employees have and will continue to obtain industrial stormwater certification to meet requirements at maintenance yards. In the past, inspections were performed by a certified part time employee.
- **Catch Basin Cleanout**
Removal and proper disposal of accumulated sediment and debris in existing catch basins throughout the Authority has continued. This work will help to ensure that the storm water discharged to receiving water remains free of sediment and debris. Each year, Authority wide, approximately 250 cubic yards of accumulated material has been collected and properly disposed of.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

Metro Beach Metropark

- **Plaza Redevelopment**
Completed construction of \$860,000.00 construction project to upgrade the plaza area at Metro Beach Metropark. The project involved the replacement of existing concrete walk with thirty percent less pavement. Where possible, pavement to be replaced was designed to direct the water runoff into grassy areas prior to reaching drainage structures. The drainage system design included BMP structures to decrease the amount of contaminants in the water column before being discharged into Lake St. Clair.
- **Reconstruction of South Marina**
Existing marina walkway and seawall was beginning to show signs of distress. This distress may allow sediment to be washed away during rain events.
- **Natural Resources Management**
Provide various natural resource-related projects to improve native habitats and restore deteriorated natural areas.
- **Phragmites Removal and habitat restoration in cooperation with multiple government agencies.**
- **Fuel Tank Replacement, Maintenance Area**
Aging fuel tanks present a hazard to ground water and leakage of the tanks can be difficult to remediate. The Authority has begun removing these tanks to reduce the hazard of underground storage tanks with aboveground storage tanks. When/if contamination is discovered during tank removal, State prescribe procedures are followed to deal with the spill.

Kensington Metropark

- **Replace Vault Latrines, Hickory Comfort Station**
Replaced existing obsolete vault latrines with modern flush toilets and sewer system. Reduced potential for discharge of septage to the environment.
- **Catch Basin Repair and Reconstruction**
The catch basins at Maple Beach, the park office, and Turthead are showing signs of distress. Replaced failing catch basins at various locations. New basins will prevent washing of subbase material and sediment into the stormwater system.
- **Irrigation Pump House Improvements, Golf Course**
The existing system relies on volume of water to maintain the playing areas and are quite inefficient. The new system will use significantly less water by reducing irrigation duration and over spray. The minimal fertilizers that are used will remain in the target zone longer



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

and will be used more efficiently by the turf resulting in minimal fertilizer runoff. Phase I pump station construction was completed in 2008. Phase II irrigation system was completed in 2009.

- **Martindale bath house replacement**
The existing storm sewer carries runoff directly from the parking lots and plaza area and discharges to Kent Lake next to a swimming beach. Any pollution from the parking and plaza areas may impact the water quality very quickly. The building replacement includes replacement of the existing storm sewer with a new outfall and treatment devices. Storm water will pass through one of two Vortech units prior to discharge. The units are designed to treat the first 1.5" of rainfall.

Huron Meadows Metropark

- **Replace Vault Latrines, Cedar Ridge Comfort Station**
Replace existing obsolete vault latrines with modern flush toilets and sewer system. Eliminates potential for discharge of septage to the environment.
- **General Repairs, Underground Fuel Storage Tank System**
Provide repairs, including interstitial tank monitoring, leak detection and system improvements to the existing UST system at the golf course. Project will help to prevent release of petroleum product to the environment.

Stony Creek Metropark

- **Paved Access Walks to Nature Center, Northdale Picnic Area**
This project will provide a durable walkway surface where a dirt path formerly existed and replace an existing paved surface with a new ADA compliant walkway. The durable surface encourages pedestrians to stay on the path and eliminates the bare surface which was prone to erosion.
- **Install Grease Trap, Golf Starter Building**
Installed grease trap in the kitchen of the Golf Starter Building. This will ensure the existing septic system continues to operate effectively to prevent untreated sanitary sewage from surfacing and becoming runoff. This project greatly reduces the possibility of improper disposal of sanitary sewage.
- **Shoreline Stabilization – Lakeview Picnic Area**
Removed/pulverized large concrete slabs and replaced with more smaller riprap. Increased safety to anglers and provided better aquatic habitat.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

- **Refurbished Maintenance Access Road**
Existing maintenance drive to island was unusable and did not provide reliable access to an island with sanitary sewers. Maintenance provided by access drive will allow inspection and repairs of sanitary sewer.
- **Abandoned Building Demolition**
Eliminated un-used buildings and facilities and returned areas to green space. Removal of un-used utilities (septic and well) will prevent future contamination sources.
- **Electrical Upgrades – Golf Course Carts**
Replaced aging gas golf cart fleet with electric carts to eliminate the chances for spills during fueling and maintenance.
- **Elimination of underground fuel oil storage tanks at Baypoint Beach bathhouse.** The furnaces were converted from fuel oil to propane; eliminating the potential for release of containments to the environment.

Lower Huron Metropark

- **Demolished Abandoned Aquatic Facility**
Old aquatic facility was demolished and returned to green space.
- **Culvert Repairs and Replacements, main access road**
Replace failing CMP culverts with new culverts. Failing culverts could allow subbase material to be washed away, potentially undermining the roadway and discharging subbase material to downstream ditches.

Lake Erie Metropark

- **Comfort Stations, Golf Course**
Replaced existing port-a-potties with comfort stations with city utilities.

Oakwood Metropark

- **Culvert Repairs and Replacements, main access road**
Replace failing CMP culverts with new culverts. Failing culverts could allow subbase material to be washed away, potentially undermining the roadway and discharging subbase material to downstream ditches.

Indian Springs Metropark

- **Abandoned Building Demolition**
Eliminated un-used buildings and facilities and returned areas to green space. Removal of un-used utilities (septic and well) will prevent future contamination sources.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

II. ACTIVITIES IN PROGRESS – 2010

Authority-Wide

- **Illicit Discharge Elimination Program**
The HCMA continues to monitor outfalls for illicit connections and will continue to investigate and eliminate the source of any illicit connections discovered.
- **Beyond the Illicit Discharge Study and Report**
In addition to monitoring outfalls covered under our Certificates of Coverage No. MIS040057, the HCMA initiated an Authority-wide survey to inspect and document all existing stormwater outfalls, culverts and drainage courses throughout the park system. This survey allows the HCMA to document stormwater structures and will insure that the HCMA continues to be proactive in protecting the Waters of the State.
- **Catch Basin Cleanout**
Removal and proper disposal of accumulated sediment and debris in existing catch basins throughout the Authority will continue. This work will help to ensure that the storm water discharged to receiving water remains free of sediment and debris.

Metro Beach Metropark

- **Habitat Restoration, Intergovernmental Work**
The Authority is working with Macomb County to use grant monies to perform habitat and wetland restoration. Planning is underway to construct this project and we are hopeful to complete this project by December 2011.
- **Natural Resources Management**
Provide various natural resource-related projects to improve native habitats and restore deteriorated natural areas.

Kensington Metropark

- **Drainage Improvements**
The HCMA continues to work with MDOT concerning the sediment laden runoff from I-96 to Kent Lake and MDOT has develop a plan to remediate this runoff by using HCMA Property to treat the storm water prior to discharge into the lake. This work has been designed and should be constructed in 2011.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

Stony Creek Metropark

- Elimination of underground fuel oil storage tank at Eastwood Beach bathhouse. The furnace is to be converted from fuel oil to propane; eliminating the potential for release of containments to the environment.
- Rehabilitation of the sanitary sewer has begun and should be completed later this year. Work includes installation of cured in place pipe (CIPP), replacement of sewer and manhole structure repair. The project will remove infiltration, reduce the risk of backups and overflows and ensure uninterrupted sewer service.

Indian Springs Metropark

- Environmental Discovery Center Stormwater Management Project
As part of the ongoing development and maturation of the Environmental Discovery Center (EDC), this project strives to display best management practices for storm water treatment and wise use of water resources. All stormwater from the EDC's walks, entrance road and parking areas is collected in vegetative swales planted with Indian Grass and Prairie Cordgrass. Water passing through the vegetative swales enters a detention basin, also planted with native vegetation. The basin outlets to a subsurface diffuser manifold, thereby eliminating surface runoff. The result is zero runoff from constructed facilities.

Oakwoods Metropark

- Replace Effluent Pump and Tank
The project will replace a deteriorated system eliminating the potential for release of containments into the environment. Work scheduled for 2009 construction.

III. FUTURE ACTIVITIES

Authority-Wide

- Illicit Discharge Elimination Program
The HCMA will continue to monitor outfalls for illicit connections and will investigate and eliminate the source of any illicit connections discovered.
- Catch Basin Cleanout
The HCMA will continue to remove and properly dispose of accumulated sediment and debris in existing catch basins throughout the Authority. This work will help to ensure that the stormwater discharged to receiving water remains free of sediment and debris.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

Metro Beach Metropark

- **Catch Basin Repairs, Main Parking Lot**
Continue replacement of failing catch basins in the main parking lot. New basins will prevent washing of subbase material into stormwater system and will be designed to collect sediment before discharging the storm water.
- **Main Lot Redevelopment**
Existing 46 acre asphalt surfaced parking lot discharges stormwater via a storm drainage system directly to the adjacent Black Creek. Current design concepts for total reconstruction of the lot include proper stormwater detention and best management practices. Project has been included in the Authority's five year plan for major capital improvements.
- **Shelter Accessibility Walks**
The HCMA will continue to provide durable walkway surfaces where dirt paths currently exist. This work will eliminate potential for erosion.

Kensington Metropark

- **Kent Lake Improvement Study**
This study will identify and define water quality, fisheries, habitat, recreational and environmental issues related to Kent Lake. Once identified, discussions will be initiated with stakeholders to identify project alternatives and goals. Ultimately, an action plan will be developed for lake improvement and management.
- **Martindale Beach Parking Lot**
Existing 7 acre macadam surfaced parking lot discharges stormwater via ditches and surface drainage directly into Kent Lake. Current design concepts for total reconstruction of the lot include proper stormwater detention and best management practices. Project is included in the five year plan.
- **The HCMA will continue to cooperate with the MDOT to eliminate the erosive velocities and sediment laden stormwater from entering the storm system from I-96.**

Lower Huron Metropark

- **Shoreline Protection, Par 3 Golf Course**
Continue to provide shoreline erosion control riprap, slope stabilization and vegetation establishment in areas of bank erosion along the Huron River. Project will help to prevent erosion of sediment into the river. Work is on-going.
- **Culvert Replacement**
Continue replacement of failing CMP culverts with new epoxy-coated CMP culverts. Failed culverts could allow subbase material to be washed away, potentially undermining the roadway and discharging subbase material to downstream ditches.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

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Willow Metropark

- **Culvert Replacement, Main Park Road**
This is an on-going project to replace failing CMP culverts with new epoxy-coated CMP culverts. Failed culverts could allow subbase material to be washed away, potentially undermining the roadway and discharging subbase material to downstream ditches.
- **Shoreline Protection**
Scheduled for construction in 2011, the installation of rip rap along the Huron River will reduce the amount of erosion caused by high water events and current. The erosion of the river bank is causing concern for the safety of pedestrians using the connector path from Willow to Lower Huron Metropark.

Oakwood Metropark

- **Gravel Parking Lot Improvements.**
Re-grade existing parking lot to reduce the possibility of heavy sediment loading in storm water.

Hudson Mills Metropark

- **Replace Vault Latrines, South Activities Comfort Station**
Replace existing obsolete vault latrines with modern flush toilets and sewer system. Eliminates potential for discharge of septage to the environment. Work is included in five year plan.

Stony Creek Metropark

- **Natural Resources Management**
Provide various natural resource-related projects to improve native habitats and restore deteriorated natural areas. This work is on-going.
- **Weir Improvements, Reflection Trail at the Nature Center**
The existing dam structure is beginning to show signs of deterioration around the sides of the structure. Repair to this structure will prevent a large amount of water from being quickly released which could result in a large amount of sediment being washed downstream of the failed structure.

Wolcott Mill Metropark

- **Drainage Improvements, Golf Course**
Include best management practices in collecting and controlling rainwater on Wolcott Mill Golf Course. Work is on-going.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040057

Lake Erie Metropark

- Fuel Tank Level Monitoring System
The project replaces an existing deteriorated system and improves ability to detect release of containments into the environment.



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Communication

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: newsletter

Date or Period of Activity: Winter (Dec 1, 2008-Feb 2, 2009)

Description: Each issue of "Metropark News", the HCMA's quarterly newsletter, contains a message on best management practices and how to review the Storm Water Management plan on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. "Metroparks News" is direct-mailed to more than 6,000 homes, e-mailed to nearly 8,000 people and is also available at all Metropark offices and interpretive centers. Both the newsletter and website list upcoming events and encourage the public to participate in these events.

Activity Performed by: ☒ Contract ☒ Park Personnel ☐ Public Participation
If Public Participation, number of participants: 14000 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred Fall 2007

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Denise Semion

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Communication

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: newsletter

Date or Period of Activity: Spring (Mar 1, 2009 – May 31, 2009)

Description: Each issue of "Metropark News", the HCMA's quarterly newsletter, contains a message on best management practices and how to review the Storm Water Management plan on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. "Metroparks News" is direct-mailed to more than 6,000 homes, e-mailed to nearly 8,000 people and is also available at all Metropark offices and interpretive centers. Both the newsletter and website list upcoming events and encourage the public to participate in these events.

Activity Performed by: ☒ Contract ☒ Park Personnel ☐ Public Participation

If Public Participation, number of participants: 14000 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred Winter 2007

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Denise Semion

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Communication

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: newsletter

Date or Period of Activity: Summer (June 1, 2009 – Aug 31, 2009)

Description: Each issue of "Metropark News", the HCMA's quarterly newsletter, contains a message on best management practices and how to review the Storm Water Management plan on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. "Metroparks News" is direct-mailed to more than 6,000 homes, e-mailed to nearly 8,000 people and is also available at all Metropark offices and interpretive centers. Both the newsletter and website list upcoming events and encourage the public to participate in these events.

Activity Performed by: ☒ Contract ☒ Park Personnel ☐ Public Participation

If Public Participation, number of participants: 14000 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 5/1/2008

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Denise Semion

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Communications

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: Website

Date or Period of Activity: Jan 1, 2009 - Dec 31, 2009

Description: The HCMA Storm Water Management Plan is available for review on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. From January through November, 8 webusers viewed the Storm Water Management Plan.

Activity Performed by: ☐ Contract ☐ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 8 Number of sessions

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: A. Caulk

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: General Public-Family programs

Date or Period of Activity: January 2009-December 2009

Description: Various general public programs with short program inside followed by hike on trail into wetlands. Various topics include Evening Hike in the Marsh, Exploring the Wetlands, Who Lives in the Pond?, Birds of the Marsh. All include giving a basic background about wetlands, watershed, water quality, invasive species, creating rain gardens.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 27 Number of sessions 6

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 11/1/2009
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/14/2011, 14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Teacher Workshop

Date or Period of Activity: April 15, 2009

Description: Six hour teacher workshop on Ecosystems which includes information on wetlands, watersheds, land use. Interpreter presented the MEECS teacher training through the Michigan Department of Environmental Quality.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 15 Number of sessions 4

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 4/15/2009

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Voyageur Canoe

Date or Period of Activity: May 2009- - September 2009

Description: Interpreters take public and school groups, scouts in 34 foot replica of Voyageur Canoe. Participants paddle canoe into large marsh area in the park. Interpreters discuss Fur Trade history but also always discuss the wetlands, water quality, invasive species, watersheds. Some appointments were just wetland studies and college classes were wetland studies and land use.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 421 Number of sessions 23

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 8/30/2009
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Summer Discovery Cruises

Date or Period of Activity: July 15, 2009 - August 7, 2009

Description: Cooperative program with Michigan Sea Grant for general public. Participants are taken for boat trip out into Lake St. Clair on the Clinton boat. Naturalists provide programs offered for two separate weeks, three programs a day with various themes related to the lake. The general Nature Cruise covers ecology of Lake St. Clair and its wetlands, watersheds, water quality, invasive species. Fisheries cruise discuss fish research with Department of Natural Resources fisheries biologist, ecology of the lake, water quality as it relates to the wildlife, watersheds, invasive species. Living Lakes topic emphasizes water quality, lake ecology.

Activity Performed by: ☒ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 469 Number of sessions 28

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 8/7/2009

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Out Reach Programs-Lake St. Clair Water Festival

Date or Period of Activity: May 20, 2009

Description: Festival organized by Macomb County Public Works Department with the Macomb Intermediate Schools, Macomb County Community College and various partners such as the Clinton River Watershed Council. Festival is held at the community college and hundreds of school children are brought to the event to hear presentations about water, water quality. Interpreters from Metro Beach have presented programs about wetlands ecology, water quality, watersheds, invasive species.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 266 Number of sessions 7

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 5/20/2009
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Great Lakes Education Program

Date or Period of Activity: January 2009 - December 2009

Description: Cooperative program with Michigan Sea Grant and MSU Extension-Macomb. School classes spend part of the day aboard the Clinton Boat with MSU Extension staff and volunteers learning about the Great Lakes, water and water quality, then the other half of the day the interpretive staff at Metro Beach has them in the park studying wetlands, watersheds and water quality. Teachers are given a workshop and materials to use in the classroom related to these topics. Program is offered April to June and September and October of the school year.

Activity Performed by: ☒ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 1390 Number of sessions 82

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/29/2009
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: School tour nature programs

Date or Period of Activity: Throughout school year

Description: Various ecological, environmental, and natural history topics and/or concepts involving the watershed and water quality were presented to school children from area schools. These programs lasted between 45 minutes and 1 1/2 hours and were presented on various dates during the school year.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 15k Number of sessions 350

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: "Pond Life" display

Date or Period of Activity: March through June

Description: Various live amphibian larvae and macro/micro invertebrates from Stony Creek and adjacent ponds are on display. Interpretive text describing the organisms, their role in the ecosystem and the impact of water quality on them are all part of this display.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 37 Number of sessions

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: Interpretive Labels

Date or Period of Activity: Ongoing

Description: Interpretive labels are at various points along our nature trails describing the formation of the watershed by glaciers, various aspects of Stony Creek and it's associated ponds and floodplain, and the animal life found in these areas.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 55 Number of sessions

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: School Outreach

Date or Period of Activity: January through March

Description: Presentations are given at school on the french fur trade era, woodland indian period and geology. All include information on the natural and cultural history of the area as well as the bodies of water that are part of this environment.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 6000 Number of sessions 71

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: Webelo geologist badge workshops

Date or Period of Activity: January and February

Description: These badge workshops give a brief overview of the geology of the area to those attending. Emphasis is placed on the impact that glaciers had on the area which includes the formation of the watershed and Stony Creek.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 180 Number of sessions 6

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: "Nature's Child" day camp.

Date or Period of Activity: June 22, 23, and 24

Description: During the day camp participants spend time in Stony Creek, it's associated ponds, and on Stony Creek Lake. Participants are introduced the habitats and ecology of Stony creek and it's watershed. Participants engage in various activities involving aquatic plants and animals, Stony Creek, the Stony Creek floodplain, Stony Creek Lake, and it's associated wetlands.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 25 Number of sessions 3

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: Friday Night Canoes

Date or Period of Activity: June through September

Description: On Friday nights from June through September participants are taken on evening canoe rides around the margin of Stony Creek Lake. The emphasis of the program is on both human and natural history revolving around the Great Lakes, the area's rivers and streams, the local plants and animals, and man's historical connection to the area and impact on the environment.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 180 Number of sessions 9

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: River Day - "Creek Wade"

Date or Period of Activity: June 13, 2009

Description: During this program participants were allowed to wade in a shallow portion of the creek and do net sampling for aquatic vertebrates and invertebrates. Those participating learned about indicator organisms and the importance of the watershed to the creatures that call it home and to us as well. The ecology, hydrology, current condition, and future of the watershed were described and discussed. At the finish of the program those participating had a greater appreciation of the importance of the watershed.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 36 Number of sessions 2

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management and water resource conservation.

Park Location: Oakwoods

Activity: Winter Adventure

Date or Period of Activity: 1/09-2/09

Description: Working with 4th and 5th grade classes discussing the impacts of human activities on water ways. A pond study is conducted to determine what types of things may be impacted.

Activity Performed by: ☐ Contract ☐ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 180 Number of sessions 6

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Kevin Arnold

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management and water resource conservation.

Park Location: Oakwoods

Activity: Voyageur canoe

Date or Period of Activity: 5/09-10/09

Description: Our canoe programs discuss all aspects of the river, from point of origin, to discharge, to affects all aspects of these have on plants, animals, and surrounding community.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 3225 Number of sessions 64

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/1/2008
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Kevin Arnold

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management, water resource conservation and protection.

Park Location: Hudson Mills

Activity: Huron River Ecosystem Study

Date or Period of Activity: May - October 2009

Description: School groups and scout troops participate in Huron River Ecosystem study. Participants use dip nets to collect macroinvertebrates and are told how flora and fauna can help to determine the health of the river. Further discussion reveals how erosion from stormwater runoff directly effect the ecosystem and the importance of reducing or eliminating sedimentation due to erosion.

Activity Performed by: ☐ Contract ☐ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 475 Number of sessions 19

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/1/2008
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Jennifer Hollenbeck

Date: 2/8/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Ecosystems (School Program Topic)

Date or Period of Activity: 10/14; 11/5, 11/08; 5/8; 6/4; 7/1; 8/9, 19, 25

Description: The ecosystems of wet and dry prairies, fens, ponds, streams and swamps are explored as participants hike through these habitats. Major emphasis is placed on wetland ecosystems and how clean water is essential for them to exist. Sources of water for each are discussed and especially how ground water is a major contributor to habitats like fens and some lakes and ponds. A comparison is made between the needs of plants and animals within wet and dry habitats. Changes in habitats (often influenced by humans) are discussed as well as how we can avoid contaminating them with pollutants. (This program is often selected by groups that bring several classes out on one day)

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 1097 Number of sessions 25

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 8/25/2009
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist

Date: 10/11/2009



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Naturals History Education and Interpretation

Park Location: Indian Springs

Activity: Jr. Girl Scouts & Brownies "Water Drop Patch" (Public Scout Program)

Date or Period of Activity: April 25, 2009

Description: This is a special event to make Brownie Scouts aware of how important water is to us and other living organisms. Jr. Girl Scouts assist our naturalist staff at various stations as they talk about river watersheds, follow a fictional fish on a journey down a river and see how the fish can be impacted by river pollution, see how wetlands provide services for people (like filtering silt) and habitats for wildlife, view aquatic insects under microscopes, dip for pond insects, and make a model of a rivershed.

(Poor attendance in 2009 due to lack of advertisement through Girl Scout Council)

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 17 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 4/26/2008
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist

Date: 10/12/2009



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Water Quality (School Program Topic)

Date or Period of Activity: 4/7, 14, 16, 23, 28; 6/23; 7/ 7, 12; 8/4, 20; 9/9

Description: The primary goal of this program is to discuss the importance of clean water in ecosystems. Ground water and surface waters are discussed along with various ways that each can be contaminated. Erosion controls, recycling of waste materials (like used oil) and how home-owner water useage can affect wetlands are reviewed. The water cycle is also reviewed. Marco-invertebrates are examined that are indicators of water quality. (This program is often selected by school groups that bring out several classes on one day.)

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 1391 Number of sessions 30

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 9/9/2009
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervisng Naturalist

Date: 10/11/2009



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Brownies "Water Everywhere" Try It Badge (Public Scout Program)

Date or Period of Activity: 10/22/08; 11/2/08; 9/26/09

Description: The guidelines for this badge were developed by Girl Scouts of the USA. The activities focus the scouts attention to finding liquid foods that contain water, how to conserve water, checking out aquatic plants and animals, and differences between salt and fresh water. Our staff places emphasis on aquatic life needing clean water and how they can suffer from pollutants.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 116 Number of sessions 3

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 9/26/2009

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist

Date: 10/11/2009



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Clinton River Watershed Festival

Date or Period of Activity: May 21, 2009

Description: This is an annual river event hosted by a local school system for 5th grade students. Many topics are covered by guest speakers. Our staff provided six sessions on aquatic invertebrates and talked about their role in the river ecosystem and how some are used as indicators of clean water. This was the first year we were invited to attend and we expect to be invited back in 2010.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 148 Number of sessions 6

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist

Date: 10/12/2009



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2009 Department: Information Systems

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter

Park Location: Authority-Wide

Activity: Posting information on the Internet provided by Engineering and Planning

Date or Period of Activity: Continual

Description: Engineering and Planning produced the Storm Water Management Program Plan and the IS department has posted it for public viewing at http://www.metroparks.com/business/mp_development.php . We also remain read to post any other nessassary documents at the request of the Engineering and Planning Departments.

Activity Performed by: ☐ Contract ☐ Park Personnel ☐ Public Participation
If Public Participation, number of participants: Number of sessions

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☐ Yes ☐ No If No, explain Yes - if needed

Report Prepared by: NLC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Communication

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: newsletter

Date or Period of Activity: Winter (Dec 1, 2010-Feb 2, 2011)

Description: Each issue of "Metropark News", the HCMA's quarterly newsletter, contains a message on best management practices and how to review the Storm Water Management plan on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. "Metroparks News" is direct-mailed to more than 6,500 homes, e-mailed to nearly 23,000 people and is also available at all Metropark offices and interpretive centers. Both the newsletter and website list upcoming events and encourage the public to participate in these events.

Activity Performed by: ☒ Contract ☒ Park Personnel ☐ Public Participation

If Public Participation, number of participants: 29,500 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred Fall 2007

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Denise Semion

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Communication

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: newsletter

Date or Period of Activity: Spring (Mar 1, 2010 -- May 31, 2010)

Description: Each issue of "Metropark News", the HCMA's quarterly newsletter, contains a message on best management practices and how to review the Storm Water Management plan on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. "Metroparks News" is direct-mailed to more than 6,500 homes, e-mailed to nearly 10,000 people and is also available at all Metropark offices and interpretive centers. Both the newsletter and website list upcoming events and encourage the public to participate in these events.

Activity Performed by: ☒ Contract ☒ Park Personnel ☐ Public Participation
If Public Participation, number of participants: 16500 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred Winter 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Denise Semion

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Communication

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: newsletter

Date or Period of Activity: Fall (Sept 1, 2010 – Nov 31, 2010)

Description: Each issue of "Metropark News", the HCMA's quarterly newsletter, contains a message on best management practices and how to review the Storm Water Management plan on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. "Metroparks News" is direct-mailed to more than 6,500 homes, e-mailed to nearly 20,000 people and is also available at all Metropark offices and interpretive centers. Both the newsletter and website list upcoming events and encourage the public to participate in these events.

Activity Performed by: ☒ Contract ☒ Park Personnel ☐ Public Participation
If Public Participation, number of participants: 26500 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred Summer 2008

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Denise Semion

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Communication

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: newsletter

Date or Period of Activity: Summer (June 1, 2010 – Aug 31, 2010)

Description: Each issue of "Metropark News", the HCMA's quarterly newsletter, contains a message on best management practices and how to review the Storm Water Management plan on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. "Metroparks News" is direct-mailed to more than 6,500 homes, e-mailed to nearly 12,000 people and is also available at all Metropark offices and interpretive centers. Both the newsletter and website list upcoming events and encourage the public to participate in these events.

Activity Performed by: ☒ Contract ☒ Park Personnel ☐ Public Participation
If Public Participation, number of participants: 18500 Number of sessions 1

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 5/1/2008

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Denise Semion

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Engineering

Areas of Responsibility: Facility construction, repair and maintenance; implementation of stormwater best management practices; contract administration, construction oversight

Park Location: Authority-Wide

Activity: Southeast Michigan Environmental Conference

Date or Period of Activity: March 16, 2010

Description: Facility construction, repair and maintenance; implementation of stormwater best management practices; contract administration, construction oversight; development of design and construction standards; report preparation.

Activity Performed by: ☐ Contract ☒ Park Personnel ☐ Public Participation
If Public Participation, number of participants: Number of sessions

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> PEP (Public Education Plan) | <input checked="" type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input checked="" type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input checked="" type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: ADC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Communications

Areas of Responsibility: Dissemination of stormwater-related information via internet, newsletter, brochures and publications and other media; tracking of public participation and response; program information available to the public.

Park Location: Authority-Wide

Activity: Website

Date or Period of Activity: Jan 1, 2010 - Dec 31, 2010

Description: The HCMA Storm Water Management Plan is available for review on our website, www.metroparks.com. Questions and comments regarding the management plan may be e-mailed via a link to the administrator of the SWMP, Michael Arens, Chief Engineer. From January through November, 5 webusers viewed the Storm Water Management Plan.

Activity Performed by: ☐ Contract ☐ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 5 Number of sessions

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: A. Caulk

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management, water resource conservation and protection.

Park Location: Hudson Mills

Activity: Huron River Ecosystem Study

Date or Period of Activity: May - October 2010

Description: School groups and scout troops participate in Huron River Ecosystem study. Participants use dip nets to collect macroinvertebrates and are told how flora and fauna can help to determine the health of the river. Further discussion reveals how erosion from stormwater runoff directly effect the ecosystem and the importance of reducing or eliminating sedimentation due to erosion.

Activity Performed by: ☐ Contract ☐ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 600 Number of sessions 24

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input checked="" type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/1/2009

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Jennifer Hollenbeck

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Lake Erie Marshlands Museum - Lake Erie Metropark

Park Location: Lake Erie

Activity: Water Investigation - macroinvertebrates

Date or Period of Activity: Spring & Fall 2010

Description: Water Investigation is a regular segment of our G.L.E.P. presentation (Great Lakes Education Program - a co-op. effort with Michigan Sea Grant). We discuss coastal wetland ecology and the role we humans play in that scenario both historically & currently. We do two classes per day during the school season and typically divide the classes into two one hour sessions per morning/afternoon session. The Water Investigation portion uses water samples in which students capture aquatic invertebrates and examine them through microscopes. We then take the last 15 min. of the period to sum up the species and talk about their ecological roles. We performed approximately 40 programs for 1200 students in 2010.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 1200 Number of sessions 40

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: G. Wykes

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management and water resource conservation

Park Location: Oakwoods

Activity: Wayne county Community College

Date or Period of Activity: 8/2010-10/2010

Description: Working with Professor Matthew Toth, we developed a program for his students discussing sustainability in regards to Urban planning and how the decisions they make affect the surrounding areas, including the waterways.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 85 Number of sessions 3

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|--|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input checked="" type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Kevin Arnold

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management and water resource conservation.

Park Location: Oakwoods

Activity: Voyageur Canoe

Date or Period of Activity: 5/10-10/10

Description: Our canoe programs discuss all aspects of the river, from point of origin, to discharge, to affects all aspects of these have on plants, animals, and surrounding community.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 2850 Number of sessions 72

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/1/2009
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Kevin Arnold

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management and water resource conservation.

Park Location: Oakwoods

Activity: Homeschool II

Date or Period of Activity: 4/10-5/10

Description: Working with a group of older Homeschoolers, we developed a program centered around the river, swamps, and marshes around the center.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 180 Number of sessions 6

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Kevin Arnold

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Providing of public education and informational programs, brochures and other outreach materials regarding stormwater management and water resource conservation.

Park Location: Oakwoods

Activity: Going Green

Date or Period of Activity: 1/10-present

Description: Discussed the importance of water, including clean, safe water.

Activity Performed by: ☐ Contract ☐ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 750 Number of sessions 6

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|--|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input checked="" type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Kevin Arnold

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: School tour nature programs

Date or Period of Activity: Throughout school year

Description: Various ecological, environmental, and natural history topics and/or concepts involving the watershed and water quality were presented to school children from area schools. These programs lasted between 45 minutes and 1 1/2 hours and were presented on various dates during the school year.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 16k Number of sessions 350

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: "Pond Life" display

Date or Period of Activity: March through June

Description: Various live amphibian larvae and macro/micro invertebrates from Stony Creek and adjacent ponds are on display. Interpretive text describing the organisms, their role in the ecosystem and the impact of water quality on them are all part of this display.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 38 Number of sessions

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: Interpretive Labels

Date or Period of Activity: Ongoing

Description: Interpretive labels are at various points along our nature trails describing the formation of the watershed by glaciers, various aspects of Stony Creek and it's associated ponds and floodplain, and the animal life found in these areas.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 60 Number of sessions

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: School Outreach

Date or Period of Activity: January through March

Description: Presentations are given at school on the french fur trade era, woodland indian period and geology. All include information on the natural and cultural history of the area as well as the bodies of water that are part of this environment.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 7000 Number of sessions 71

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☒ Yes ☐ No If No, when activity last occurred 2007

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: Webelo geologist badge workshops

Date or Period of Activity: January and February

Description: These badge workshops give a brief overview of the geology of the area to those attending. Emphasis is placed on the impact that glaciers had on the area which includes the formation of the watershed and Stony Creek.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 180 Number of sessions 6

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: "Nature's Child" day camp.

Date or Period of Activity: June 21, 22, and 23

Description: During the day camp participants spend time in Stony Creek, it's associated ponds, and on Stony Creek Lake. Participants are introduced the habitats and ecology of Stony creek and it's watershed. Participants engage in various activities involving aquatic plants and animals, Stony Creek, the Stony Creek floodplain, Stony Creek Lake, and it's associated wetlands.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 25 Number of sessions 3

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: Friday Night Canoes

Date or Period of Activity: June through September

Description: On Friday nights from June through September participants are taken on evening canoe rides around the margin of Stony Creek Lake. The emphasis of the program is on both human and natural history revolving around the Great Lakes, the area's rivers and streams, the local plants and animals, and man's historical connection to the area and impact on the environment.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 180 Number of sessions 9

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Provide public programs and/or printed materials to educate and inform visitors on the Clinton River watershed, water quality, and Stony Creek.

Park Location: Stony Creek

Activity: River Day - "Creek Wade"

Date or Period of Activity: June 13, 2009

Description: During this program participants were allowed to wade in a shallow portion of the creek and do net sampling for aquatic vertebrates and invertebrates. Those participating learned about indicator organisms and the importance of the watershed to the creatures that call it home and to us as well. The ecology, hydrology, current condition, and future of the watershed were described and discussed. At the finish of the program those participating had a greater appreciation of the importance of the watershed.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 36 Number of sessions 2

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 2007
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Douglas Spiller - SCNC

Date: 2/14/2011



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Ecosystems (School Program Topic)

Date or Period of Activity: May 11, 13, 25, June 3, 9, 10, 11

Description: The ecosystems of wet and dry prairies, fens, ponds, streams and swamps are explored as participants hike through these habitats. Major emphasis is placed on wetland ecosystems and how clean water is essential for them to exist. Sources of water for each are discussed and especially how ground water is a major contributor to habitats like fens and some lakes and ponds. A comparison is made between the needs of plants and animals within wet and dry habitats. Changes in habitats (often influenced by humans) are discussed as well as how we can avoid contaminating them with pollutants. (This program is often selected by groups that bring several classes out on one day)

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 633 Number of sessions 19

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 6/11/2010

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist

Date: 10/30/2010



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Jr. Girl Scouts & Brownies "Water Drop Patch" (Public Scout Program)

Date or Period of Activity: May 15, 2010

Description: This is a special event to make Brownie Scouts aware of how important water is to us and other living organisms. Jr. Girl Scouts assist our naturalist staff at various stations as they talk about river watersheds, follow a fictional fish on a journey down a river and see how the fish can be impacted by river pollution, see how wetlands provide services for people (like filtering silt) and habitats for wildlife, view aquatic insects under microscopes, dip for pond insects, and make a model of a watershed.

(Better advertisement through Girl Scout Council made program successful this year)

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation

If Public Participation, number of participants: 250 Number of sessions 4

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 4/25/2009

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist 10-30-10

Date: 10/30/2010



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Water Quality (School Program Topic)

Date or Period of Activity: May to Oct 2010; Program given on 17 days

Description: The primary goal of this program is to discuss the importance of clean water in ecosystems. Ground water and surface waters are discussed along with various ways that each can be contaminated. Erosion controls, recycling of waste materials (like used oil) and how home-owner water usage can affect wetlands are reviewed. The water cycle is also reviewed. Macro-invertebrates are examined that are indicators of water quality. (This program is often selected by school groups that bring out several classes on one day.)

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 2684 Number of sessions 44

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/28/2010
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist

Date: 10/31/2010



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Natural History Education and Interpretation

Park Location: Indian Springs

Activity: Pond Study (School Program Topic)

Date or Period of Activity: Aug 10, 29; Oct 7, 22

Description: A general program that introduces participants to the plants and animals of small bodies of water. May include using microscopes to examine benthic microinvertebrates. Food webs and chains; adaptations of aquatic lifeforms; seasonal changes; oxygen content; water pollution (chemicals to silt) effects on aquatic life and control methods; comparisons of vernal and permanent ponds; and macro-invertebrate identification are some of the topics covered. (This program is often selected by school groups that bring several classes out on one day)

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 658 Number of sessions 9

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/22/2010

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Steve Horn - Supervising Naturalist 10-30-10

Date: 10/31/2010



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Teacher Workshop

Date or Period of Activity: March 8, 2010

Description: Six hour teacher workshop on Ecosystems which includes information on wetlands, watersheds, land use. Interpreter presented the MEECS teacher training through the Michigan Department of Environmental Quality.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 24 Number of sessions 6

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 3/8/2010

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: General Public-Family programs

Date or Period of Activity: January 2010-December 2010

Description: Various general public programs with short program inside followed by hike on trail into wetlands. Various topics include Evening Hike in the Marsh, Exploring the Wetlands, Who Lives in the Pond?, Birds of the Marsh. All include giving a basic background about wetlands, watershed, water quality, invasive species.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 9 Number of sessions 2

Status: ☒ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 11/1/2010
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/14/2011,

14-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Great Lakes Education Program

Date or Period of Activity: January 2010 - December 2010

Description: Cooperative program with Michigan Sea Grant and MSU Extension-Macomb. School classes spend part of the day aboard the Clinton Boat with MSU Extension staff and volunteers learning about the Great Lakes, water and water quality, then the other half of the day the interpretive staff at Metro Beach has them in the park studying wetlands, watersheds and water quality. Teachers are given a workshop and materials to use in the classroom related to these topics. Program is offered April to June and September and October of the school year.

Activity Performed by: ☒ Contract ☒ Park Personnel ☒ Public Participation

If Public Participation, number of participants: 2111 Number of sessions 121

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 10/28/2010

Was Activity a Success? ☒ Yes ☐ No If No, explain

Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Voyageur Canoe

Date or Period of Activity: May 2010- - September 2010

Description: Interpreters take public and school groups, scouts in 34 foot replica of Voyageur Canoe. Participants paddle canoe into large marsh area in the park. Interpreters discuss Fur Trade history but also always discuss the wetlands, water quality, invasive species, watersheds. Some appointments were just wetland studies and college classes were wetland studies and land use.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 288 Number of sessions 29

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

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| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 9/2/2010
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Library Out Reach Programs

Date or Period of Activity: June 2010- - August 2010

Description: Libraries around the state chose water as the theme for their summer reading programs. Interpreters presented programs at various libraries in Macomb and Wayne county about water, wetlands, Great Lakes , wildlife that live in aquatic environments and their need for good water quality and what people can do to help water quality.

We also presented library programs for adults on use of Rain Barrels and keeping storm water on your property with rain gardens.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 757 Number of sessions 16

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 8/1/2010
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Summer Discovery Cruises

Date or Period of Activity: July 28, 2010 - August 15, 2010

Description: Cooperative program with Michigan Sea Grant for general public. Participants are taken for boat trip out into Lake St. Clair on the Clinton boat. Naturalists provide programs offered for two separate weeks, three programs a day with various themes related to the lake. The general Nature Cruise covers ecology of Lake St. Clair and its wetlands, watersheds, water quality, invasive species. Fisheries cruise discuss fish research with Department of Natural Resources fisheries biologist, ecology of the lake, water quality as it relates to the wildlife, watersheds, invasive species. Living Lakes topic emphasizes water quality, lake ecology.

Activity Performed by: ☒ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 389 Number of sessions 32

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 8/15/2010
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Webelos Scout badge

Date or Period of Activity: January 2010-December 2010

Description: Group appointments at the nature center to provide Webelos boy scouts required information for Naturalist badge which includes a portion about importance of wetlands, water and water quality and what people can do to help.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 89 Number of sessions 8

Status: ☐ Complete ☒ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 11/1/2010
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11



HURON-CLINTON METROPOLITAN AUTHORITY

PHASE II STORM WATER ACTIVITY REPORT

Certificate of Coverage No. MIS040047 & MIS040048 & MIS049000

Year: 2010 Department: Interpretive Services

Areas of Responsibility: Education

Park Location: Metro Beach

Activity: Out Reach Programs-Lake St. Clair Water Festival

Date or Period of Activity: May 19, 2010

Description: Festival organized by Macomb County Public Works Department with the Macomb Intermediate Schools, Macomb County Community College and various partners such as the Clinton River Watershed Council. Festival is held at the community college and hundreds of school children are brought to the event to hear presentations about water, water quality. Interpreters from Metro Beach have presented programs about wetlands ecology, water quality, watersheds, invasive species.

Activity Performed by: ☐ Contract ☒ Park Personnel ☒ Public Participation
If Public Participation, number of participants: 264 Number of sessions 8

Status: ☒ Complete ☐ In Progress ☐ Planned (If Planned, est. completion date)

Storm Water Management Program Plan requirements met by this activity (Check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> PEP (Public Education Plan) | <input type="checkbox"/> Post Construction Storm Water Management Program |
| <input type="checkbox"/> PIP (Public Involvement and Participation Plan) | <input type="checkbox"/> Construction Storm Water Runoff Control |
| <input type="checkbox"/> IDEP (Illicit Discharge Elimination Plan) | <input type="checkbox"/> Pollution Prevention/ Good Housekeeping for Municipal Operations |

New Activity? ☐ Yes ☒ No If No, when activity last occurred 5/19/2010
Was Activity a Success? ☒ Yes ☐ No If No, explain
Should Activity be Repeated? ☒ Yes ☐ No If No, explain

Report Prepared by: Julie Champion

SavedDate: 2/16/2011,

16-Feb-11