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## ***Annual Facility Inspection Report – Section B***

*Year 9 of NPDES Permit No. ILR400308*

*Village of Carol Stream, 2<sup>nd</sup> Notice of Intent (Year 3)*

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### **NOTE**

**For each BMP see DuPage County's Annual Report for the Village's participation in qualifying local programs that were implemented countywide.**

### **PUBLIC EDUCATION & OUTREACH**

#### ***A.1: Distribution of Paper Material***

##### ***Goals***

Carol Stream utilizes paper materials to assist in providing information for programs, procedures, and research to residents and non-residents of Carol Stream. The Village has created two brochures: *Pond Shoreline Restoration Program* and *Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help*, and one booklet: *Jay Stream Shoreline Enhancement Project – Plant Identification Photo Gallery*. We also use numerous other brochures, fact sheets and handouts developed by other organizations such as DuPage County, The Conservation Foundation, Forest Preserve District of DuPage County, United Recycle, COM2, Flood Bros., Clarke Environmental Mosquito Management Inc., Illinois Environmental Protection Agency, Christopher B. Burke Engineering, Ltd. and other governmental agencies. These paper materials provide information about various Village programs, including pond shoreline stream bank stabilization; the promotion of best management practices; and provide general guidance on how to improve water quality throughout the County.

The Village will continue to distribute existing brochures, fact sheets and handouts as well as the publication of Correspondent News articles and Village Happenings news letter articles. As new material is developed the additional material that is prepared by other groups and agencies will be distributed.

##### ***Year 3 Milestones***

Continue with the publication and distribution of available paper materials.

##### ***Summary of Accomplishments***

Village Staff distributed and made the following informational material available:

- ◆ *West Nile Virus Mosquito* – DuPage County Health Department
- ◆ *Maintenance and Management of Naturalized Areas* – DuPage County Department of Economic Development & Planning
- ◆ *DuPage County Wetlands and Streams* – DuPage County Department of Economic Development & Planning
- ◆ *West Chicago Prairie* – Forest Preserve District of DuPage County

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- ◆ *Prescription Burns* – Forest Preserve District of DuPage County
- ◆ *Living with Mosquitoes in DuPage County* – Forest Preserve District of DuPage County
- ◆ *Living with Wildlife in DuPage County* – Forest Preserve District of DuPage County
- ◆ *Aquatic Invasive Species* – Forest Preserve District of DuPage County
- ◆ *DuPage County Adopt –a – Stream Program* – DuPage County Stormwater Management Division
- ◆ *Residential Electronics Recycling Program Opportunities* – Village of Carol Stream
- ◆ *2011 Electronics Recycling Program* – DuPage County
- ◆ *Com2 Recycling Solutions* – Com2 Recycling
- ◆ *Water Conservation Pledge – Preserving Every Drop* – DuPage Water Commission
- ◆ *Recycling Extravaganza* – Creative Recycling
- ◆ *Smart Ideas* - ComEd
- ◆ *Recycling Extravaganza* – Village of Lombard
- ◆ *Cantigny Green Fair* – Cantigny Park
- ◆ *Holiday Lights Recycling* – Village of Carol Stream
- ◆ *Annual Recycling Event* – Hanover Park
- ◆ *Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help* – Village of Carol Stream
- ◆ *Parking Lot Deicing* – DuPage River – Salt Creek Watersheds
- ◆ *RxBox Disposing Meds Safely* – DuPage County Health Department
- ◆ *Updating DuPage’s Stormwater and Flood Plain Ordinance* – DuPage County
- ◆ *Testing Private Well Water* – Illinois Department of Public Health
- ◆ *Storm Drain Stenciling* – The Conservation Foundation
- ◆ *Save up to \$175 the first year Appliance Recycling* – ComEd
- ◆ *Regional Household Hazardous Waste Facility* – City of Naperville
- ◆ *DuPage County Recycling Guide* – DuPage County

The following articles were prepared and published in the E-Stream Newsletter:

- ◆ *Yard Waste Collection Resumes April 2<sup>nd</sup>*
- ◆ *Earth Day Fest. & Recycling Event - April 21<sup>st</sup>*
- ◆ *Earth Hour Scheduled for Sat., Mar. 31<sup>st</sup>*
- ◆ *Village Certified as Storm Ready Community*
- ◆ *Recycling Opportunities from S.C.A.R.C.E.*
- ◆ *Holiday Lights Recycling (3 Articles)*
- ◆ *“Nature Call: Answer and Volunteer!” Open House*
- ◆ *Spring into Volunteering, Saturday, April 14<sup>th</sup> 9am – noon Spring Creek Reservoir*
- ◆ *Go Green! Sunday, April 22<sup>nd</sup> noon – 4pm Fullersburg Woods*

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- ◆ *Make A Difference Day Volunteer Cleanup – Saturday, Oct. 27<sup>th</sup> 9am – noon – East Branch*
- ◆ *Last Week for Free Holiday Tree Pick Up*
- ◆ *Recycling Holiday Lights through January 30<sup>th</sup> – Carol Stream*
- ◆ *RX Box Disposing Meds Safely – Carol Stream (3Articles)*
- ◆ *Snow & Ice Control Program – Carol Stream*
- ◆ *Snow & Ice Plan 2011 – 2012 Village of Carol Stream Public Works Department*
- ◆ *Residential Electronic Recycling Program Opportunities (4 Articles)*
- ◆ *Rain Barrels – Holiday Sale – The Conservation Foundation (2 Articles)*
- ◆ *Free Leaf Pick Up Week November 21<sup>st</sup> – 26<sup>th</sup>*
- ◆ *Village to Conduct Controlled Pond Burns*
- ◆ *Composting Recipe for Success*
- ◆ *Raking Leaves into Curb/Street Prohibited – Village of Carol Stream*
- ◆ *Free Document Shredding for Businesses (3 Articles)*
- ◆ *Use 90¢ Leaf Stickers Beginning Oct. 17<sup>th</sup>*
- ◆ *Electronics Landfill Ban*
- ◆ *Citywide Recycling Event – West Chicago*
- ◆ *Cantigny Green Fair Scheduled for Saturday, September 24<sup>th</sup> from 10am – 4pm (2 Articles)*
- ◆ *Recycle & Document Shred Event – Sat. Sept. 17<sup>th</sup>*
- ◆ *Annual Recycling Event – Hanover Park (2 Articles)*
- ◆ *Klein Creek Flood Control Project Update*
- ◆ *Electronics Landfill Ban Goes into Effect January 1, 2012*
- ◆ *Free Electronics Recycling Event – DuPage County*
- ◆ *SCARCE – Disposal of Medicine – Prescription and Over the Counter*
- ◆ *Free Commercial Electronics Recycling Event*
- ◆ *Outdoor Water Regulations – Village of Carol Stream*
- ◆ *Emerald Ash Borer Background Information*
- ◆ *Latex Paint Recycling – DuPage County – June 6<sup>th</sup> through July 22<sup>nd</sup> (6Articles)*
- ◆ *RX Recycling Sites*
- ◆ *Battery Recycling Event – July 20<sup>th</sup> – Lombard Park District*
- ◆ *Eco-Friendly Lawn Care – Lawn Tip Videos - EPA*
- ◆ *RX Box Disposing Meds Safely – DuPage County*
- ◆ *Emerald Ash Borer Update*
- ◆ *The Resurgence of the Emerald Ash Borer*
- ◆ *Household Hazardous Waste Drop-off (2 Articles)*
- ◆ *April 23<sup>rd</sup> Eco-Festival & Spring Farmer's Market*
- ◆ *Recycling Extravaganza & Document Shred Event Scheduled for Sat., May 7<sup>th</sup> Village of Carol Stream Town Center (2 Articles)*

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- ◆ *Local Volunteers Needed for 2011 Pond & Stream Sweep (3 Articles)*
- ◆ *Wheaton Hosts Annual Earth Day Extravaganza on Sat., April 16<sup>th</sup>*
- ◆ *Earth Day Festival & Farmers Market April 23<sup>rd</sup> – Carol Stream Park District*
- ◆ *Water Conservation – Carol Stream*
- ◆ *Reduce, Reuse, Recycle – Carol Stream*
- ◆ *Organic Gardening Advice – DuPage Organic Gardening Club*
- ◆ *Junk the Junk Mail – Carol Stream*
- ◆ *Zero the Phosphates – Carol Stream*
- ◆ *Wayne Township Recycling Event – Sat., May 21<sup>st</sup>*
- ◆ *Outdoor Water Conservation*
- ◆ *Home Recycling Hazardous Waste Permanent Household Hazardous Waste Collection - Naperville*

The Village Staff prepared and published several Village Happenings news letter articles on:

- ◆ *DuPage Green Grid – GIS Map & Smartphone App helps Identify Green Projects & Services*
- ◆ *Celebrate Earth Hour on Saturday, March 31<sup>st</sup> by Turning Off Home, Office & Business Lighting*
- ◆ *Recycle Your Broken Holiday Light Strands Thru Monday, January 30<sup>th</sup>*
- ◆ *Electronics Landfill Ban in Effect*
- ◆ *Last Week for FREE Holiday Tree, Wreath & Bough Pick Up (2 Articles)*
- ◆ *Recycle Your Broken Holiday Light Strands In Support of the Christmas Sharing Program (3 Articles)*
- ◆ *FREE Fall Leaf Pick-Up Scheduled for the November 21<sup>st</sup> Collection Week (2 Articles)*
- ◆ *Free Commercial Document Shredding Event Scheduled for Wednesday, October 26<sup>th</sup>*
- ◆ *6-Week Fall Leaf Sticker Use Period Begins October 17<sup>th</sup> Collection Week (2 Articles)*
- ◆ *Raking Leaves into the Street/Curb is Prohibited*
- ◆ *Village to Conduct Controlled Pond Burns in the Late Fall @4 Area Residential Ponds*
- ◆ *Cantigny Green Fair Scheduled for Saturday, September 24<sup>th</sup> from 10am – 4pm*
- ◆ *Free Week-Long Commercial Electronics Recycling Event Scheduled from August 22<sup>nd</sup> – 26<sup>th</sup> (2 Articles)*
- ◆ *City of Wheaton Hosts Annual Recycling Extravaganza on Sat. April 16<sup>th</sup> from 9am – 1pm*
- ◆ *Attend the Park Dist. Eco-Festival & Farmer’s Market on Sat., April 23<sup>rd</sup> @ Armstrong Park*
- ◆ *Village Hosts Recycling & Document Shredding Event on Sat., May 7<sup>th</sup> @ the Town Center (2 Articles)*
- ◆ *Hanover Park to Host Recycling & Document Shredding Event on Sat., September 17<sup>th</sup>*
- ◆ *Volunteers Needed for the 2011 DuPage County Pond & Stream Sweep Event (2 Articles)*

The following water billing messages were sent out:

- ◆ *Volunteers Needed for the 2011 DuPage County Pond & Stream Sweep Event*
- ◆ *Pond Burns Scheduled this Fall - Village will conduct controlled burns of invasive vegetation enhancing native prairie plantings.*
- ◆ *4<sup>th</sup> Annual Recycling Extravaganza – Sat., May 7<sup>th</sup>*

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- ◆ *Recycle Your Broken Holiday Light Strands*

The Village Board adopted the following proclamations and resolutions:

- ◆ *Designating March 19<sup>th</sup> – March 25<sup>th</sup>, 2012 as Flood Safety Awareness Week*
- ◆ *Support of 2012 Earth Hour on, Saturday, March 31, 2012*
- ◆ *Recognizing the 2011 Holiday Light Recycling Program Partners*
- ◆ *Explanation of Sierra Club Cool Cities Award given to Village of Carol Stream*
- ◆ *Apartment Recycling Pilot Program Presentation – Greenway Recycles!*

### ***A.2: Speaking Engagement***

#### ***Goals***

The Village has used speaking engagements as an additional means to provide the public with information on storm water issues, procedures, and information. Village Staff have previously made several different presentations and seminars on storm water quality and will continue to present information to residents and elected officials on storm water quality issues and solutions.

#### ***Year 3 Milestones***

Continue to provide homeowners associations and other groups with information about storm water issues, values, procedures, maintenance efforts and solutions to better educate them and equip them to play a role. Encourage Staff to seek opportunities and participation in speaking engagements.

#### ***Summary of Accomplishments***

The Village is a dues paying member of the DuPage River/Salt Creek Workgroup (DRSCW) which meets regularly and has made the following speaking engagements and presentations:

- ◆ Chloride Usage Education and Reduction Program Report
- ◆ IPS tool development and application – IEPA Springfield
- ◆ What’s going on in our rivers – League of women voters Elmhurst
- ◆ Road Salt Symposium – Aquatic Society Road Salt Symposium Minnesota
- ◆ US EPA Integrated Planning Workshop
- ◆ DRSCW Watershed Management Update – WaterCon 2012
- ◆ State of the DuPage River – Village of Lisle
- ◆ IEPA – Stage 2 TMDL Development of Septic System map for Targeted Sub-basin project.

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- ◆ Contribution of PAHs from coal-tar pavement sealcoat and other sources to 40 US lakes.
- ◆ MWRDGC – Stormwater Management Projects
- ◆ IPS Tool presentation made at the “Beyond the Basics Workshop”
- ◆ Chloride reduction report for the Suburban and Fox Valley Branches of APWA’s snow and ice control workshop
- ◆ Identifying and prioritizing Projects to meet the Aquatic Life Goal of the Clean Water Act.
- ◆ Turning Priorities on Selected Stream Segments into Implementation Projects
- ◆ Developing and Putting Projects on the Ground
- ◆ PAH’s and Parking Lots
- ◆ Stormwater Permits Program – Current Issues
- ◆ “Calculating optimal widths for Riparian Buffer Zones in the DuPage-Salt Creek Watersheds” – DUMEG
- ◆ East Branch DO and DO Feasibility Study
- ◆ Dam Modification and Segment Naturalization – Churchill Woods
- ◆ Macroinvertebrate Scores as a function of Riparian Buffer Widths
- ◆ DRSCW watershed approach presentation to the Illinois Association of Waste Water Agencies
- ◆ Literature review of PAHs presentation to the Illinois Section AWWA and the Illinois Water Environment Association
- ◆ DRSCW philosophy, funding and organization presentation to the Lower DuPage Watershed Group
- ◆ Project Identification and prioritization on a Watershed Scale; Upper DuPage and Salt Creek” and on the applicability of Tiered Aquatic Life Use classifications in Illinois presentation to Chicago Wilderness Aquatic Task Force.
- ◆ DRSCW Chloride Reduction Workshop – Public Agencies
- ◆ DRSCW Chloride Reduction Workshop – Private Companies

### ***A.3: Public Service Announcement***

#### ***Goals***

Public service announcements are utilized to reach large groups of people and inform them of issues regarding storm water management and water quality. The Village will continue with the preparation of News Releases.

#### ***Year 3 Milestones***

Continue with the preparation and release of storm water quality related articles to local news papers.

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### ***Summary of Accomplishments***

The Village prepared and distributed numerous News Releases that included:

- ◆ *6 – Week Leaf Sticker Use Period Begins the October 17<sup>th</sup> Collection Week*
- ◆ *Free Fall Leaf Pick-Up Scheduled for the Nov. 21<sup>st</sup> Collection Week*
- ◆ *Recycling Your Broken Holiday Light Strands thru Monday, January 30<sup>th</sup>*
- ◆ *Free Holiday Tree & Wreath Collection Scheduled for January 3<sup>rd</sup> – 13<sup>th</sup>*
- ◆ *Electronics landfill Ban Goes into Effect January 1, 2012*

The following articles were in the local newspapers:

- ◆ *Village Share Program receives two donations*
- ◆ *Demolition Starts on Aldrin Community Center – will be used as a stormwater reservoir as part of the DuPage County Stormwater Management Plan*
- ◆ *Brick-breaking signals start of flood prevention project*
- ◆ *Carol Stream center demolition begins*
- ◆ *Village is certified as a storm-ready community*
- ◆ *Holiday lights recycling program ends Monday, January 30<sup>th</sup> (2 Articles)*
- ◆ *Electronics landfill ban in effect as of January 1<sup>st</sup>*
- ◆ *Only 25 percent of electronics are recycled*
- ◆ *Board given update on disaster preparedness*
- ◆ *Village approves annual snow removal program*
- ◆ *Village awards contracts for flood residue work*
- ◆ *Mixed reactions greet Armstrong Park plan*
- ◆ *Not all Carol Stream residents thrilled with wastewater plan*
- ◆ *Village ratifies request for removal quotes*
- ◆ *Daily Herald, More tree removals*
- ◆ *Improving the response to flooding*
- ◆ *Flood plain homes to be purchased, demolished*
- ◆ *Board hears report on new recycling initiative*
- ◆ *Carol Stream stormwater management project gains steam*
- ◆ *Emerald ash borer still is infesting area trees*
- ◆ *Park Dist. Supports flood storage reservoirs*
- ◆ *Emerald ash borer set to bug village, once again*
- ◆ *Board hears report on Emergency Response Plan*
- ◆ *Carol Stream hopes to receive money through Illinois Community Development Block Grant IKE- Disaster Recovery Program*
- ◆ *Carol Stream to offer recycling extravaganza*

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- ◆ *Village holds annual Recycling Extravaganza*
- ◆ *Annual pond sweep bags large trash yield*
- ◆ *Board hears report on Emergency Response Plan*
- ◆ *Emerald ash borer set to bug village, once again*

The following article appeared in Public Works Magazine:

- ◆ *Designing on a dime – Three ways to optimize existing equipment for snow and ice control.*

The following email was sent out from the Carol Stream Park District:

- ◆ *Earth Day Festival*
- ◆ *Armstrong Park Clean Up*
- ◆ *Make Your Own Rain Barrel Booth*
- ◆ *Save Our Streams – Storm Drain Stenciling*
- ◆ *Free T Shirt for Tree Huggers from Cool City Carol Stream*
- ◆ *Gardeners' Gold*
- ◆ *What to Recycle – Really !!!!!*
- ◆ *Organic Gardening*
- ◆ *Carol Stream Cycling*
- ◆ *Water Saving Strategies*
- ◆ *Kids Craft Corner*
- ◆ *Ronald McDonald Goes Green*
- ◆ *Organic Gardening in Small Places*

Village Staff prepared the following notices and broadcast them on our public access channel #6:

- ◆ *Recycling Rx @ Vil. Hall*
- ◆ *Recycle Cell Phones & Batteries @ Village Hall 24/7*
- ◆ *Recycling Event*
- ◆ *Earth Day Festival & Farmer's Market*
- ◆ *DuPage Organic Garden Club Hosts Plant Sale*
- ◆ *City of Wheaton Recycling Event*
- ◆ *ENVIRONMENTAL WEB PORTAL – HELP US GREEN CAROL STREAM*
- ◆ *Electronics Landfill Ban Goes into Effect on Jan. 1, 2012*
- ◆ *Free Computer Recycling*
- ◆ *Great Western Trail Clean Up*
- ◆ *Stream Sweep Volunteers Needed*
- ◆ *No Raking Leaves into Curb*



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- ◆ *Klein Creek Reservoir Watershed Improvement Public Meeting*
- ◆ *2<sup>nd</sup> Annual Green Fair*
- ◆ *Hanover Park Hosts Recycling Event*
- ◆ *DuPage River Coalition Meetings*
- ◆ *Water Regulations*
- ◆ *Household Hazardous Waste Disposal*
- ◆ *Holiday Lights Recycling*

The Village submitted the following Green Bulletin announcements:

- ◆ *Recycling Extravaganzas in DuPage County – May 7<sup>th</sup> Carol Stream Recycling Event*

Gary Avenue electronic sign messages:

- ◆ *Rx Box Recycle Rx Meds*
- ◆ *Free Document Shredding*
- ◆ *DuPage Garden Club – Native Plant & Flower Sale*
- ◆ *Green Fair – Cantigny Gardens*
- ◆ *Latex Paint Recycling – Greene Valley Sanitary Plant*
- ◆ *Klein Creek Water Shed Improvement Plan Update – Sept. 13<sup>th</sup>*
- ◆ *Electronics Landfill Ban began Jan. 1<sup>st</sup>*
- ◆ *Thunderbird & Klein Creeks Clean Up – May 19<sup>th</sup>*
- ◆ *Recycling Extravaganza, Sat. Feb 25<sup>th</sup>*
- ◆ *Household Drop Off Location – Naperville Firehouse #4*
- ◆ *Recycle you Holiday Lights*
- ◆ *Village Code Prohibits Raking Leaves into Curb, Clogged Storm Drains will Cause Street Flooding, Clear Leaves from Storm Inlets*

The Village used several different public service announcements to request volunteers for our annual Pond & Stream Sweep and our Klein Creek and Thunderbird Creek Clean Up. They included:

- ◆ *Carol Stream Chamber of Commerce Newsletter*
- ◆ *The Conservation Foundation Happenings*
- ◆ *The Conservation Foundation Web Site*
- ◆ *Village of Carol Stream Intranet*
- ◆ *Join Us In Making A Difference For Carol Stream Flood Victims*
- ◆ *Annual State of Village handouts.*
- ◆ *Come Join the Fun and Make A Difference – Pond & Stream Sweep*

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### ***A.4: Community Event***

#### ***Goals***

Community events provide opportunities for Carol Stream personnel to provide information to volunteers, residents, businesses and the general public about a variety of storm water management and water quality issues. The Village utilizes several different events to reach these people and will continue to provide educational material to all volunteers in our annual Pond & Stream Sweep event.

#### ***Year 3 Milestones***

Continue conducting the yearly Pond & Stream Sweep and provide informational material on storm water quality related topics to all volunteers.

#### ***Summary of Accomplishments***

The Village held its annual Pond & Stream Sweep on Saturday, May 21st. 72 volunteer, 5 businesses and 2 families removed 2,000 lbs. of trash and debris from 9.5 miles of shorelines along 14 ponds and stream sections. At this event storm water educational material is provided to all the volunteers (*Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help*).

Carol Stream's Adopt-A-Highway Program utilized numerous volunteers from 6 organizations. They performed 19 cleanings removing trash from 22 miles of roadways that could've otherwise entered our streams and ponds.

The Village conducted an Earth Day Community Recycling Event on Saturday, May 7, 2011 where 27,000 pounds of electronics were collected, all for recycling.

The Village's Rx Box Program collected 1,132 lbs. of drugs and medical supplies.

A total of 3,032 lbs. of holiday lights were collected for recycling yielding 303 lbs. of industry-grade copper. The entire proceeds were donated to the Village's Christmas Sharing Program.

At the 2011 State of the Village Address the following informational material consisting of pamphlets and brochures was made available at a booth:

- ◆ *Storm Drain Stenciling – The Conservation Foundation*
- ◆ *Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help – Village of Carol Stream*
- ◆ *Dump no waste! Drains to river!*

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- ◆ Rain. It's a Natural Resource
- ◆ Where does the rain go?
- ◆ Got downspouts? Build a rain garden!
- ◆ Native Landscaping
- ◆ Live near a detention pond?
- ◆ SCARCE Earth Flag Certification Program

### ***A.6: Other Public Education***

#### ***Goals***

Other public education initiatives allow further opportunities to promote storm water management and water quality issues. The Village will finalize the creation of the environmental web page.

#### ***Year 3 Milestones***

Continue updating the Village's environmental web page as new and better information becomes available.

#### ***Summary of Accomplishments***

Updated the Village's "Environmental Web Portal" and "Storm Water Management" web page that offers a wealth of information on the Village's efforts toward addressing storm water quality issues and how residents can make an impact. Environmental Web Portal and Storm Water Management web page updates include the following:

- ◆ Updated Hyperlinks on Environmental Web Portal
  - FEMA Flood Plain Management Regulations
  - IDDE Program
- ◆ Storm Water Management Webpage Additions
  - Disaster Assistance
  - Storm Water Management Regulations
- ◆ Provided review comments on new web site

The DRSCW performed the following additional educational activities in 2011:

- ◆ The web site was updated with new reports and educational materials.
- ◆ Chloride Fact Sheets have continued to be made available to various stakeholders.

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- ◆ A Fact sheet summarizing alternative deicing products.
- ◆ A brochure on coal tar sealants as a source of Polycyclic Aromatic Hydrocarbons aimed at homeowners

These are the technical presentations the work group presented in 2011:

- ◆ East Branch DO and DO Feasibility Study
- ◆ Dam Modification and Segment Naturalization – Churchill Woods
- ◆ Macroinvertebrate Scores as a function of Riparian Buffer Widths
- ◆ PAHs and Parking Lots
- ◆ Stormwater Permits Program: Current Issues
- ◆ Identifying and Prioritizing Projects to Meet the Aquatic Life Goal and the Clean Water Act
- ◆ Contribution of PAHs from coal-tar pavement sealcoat and other sources to 40 U.S. lakes
- ◆ MWRDGC – Stormwater Management Projects
- ◆ Salt Creek Basin Assessment 2010
- ◆ Illinois EPA’s Approach to Nutrients
- ◆ Watershed-Based NPDES Permitting
- ◆ Chloride Reduction Improvement program
- ◆ IPS In-Stream Habitat Improvement Reconnaissance Project(s) Update
- ◆ Development of Ammonia Mass-Balance Techniques
- ◆ Development of Septic System map for Targeted Sub-basin Project
- ◆ Calculating optimal widths for Riparian Buffer Zones in the DuPage Sale Creek Watersheds
- ◆ What’s going on in our rivers? – The Village of Villa Park’s Environmental Concerns Committee
- ◆ DRSCW’s Chloride Analysis and Reduction Program
- ◆ DRSCW’s Chloride Analysis and Reduction Program – CMAP Offices
- ◆ What’s going on in our rivers? – League of Women Voters of Elmhurst

The following educational notices were distributed:

- ◆ DuPage River Salt Creek Workgroup integration and prioritization systems (IPS) tool meeting notice to Carol Stream Park District

Village Staff attended the following educational programs:

- ◆ DuPage River Salt Creek Workgroup Meetings – 4/27/11; 6/29/11; 8/31/11; 10/26/11; 12/7/11; 2/29/12
- ◆ DuPage County Countywide Stormwater and Flood Plain Ordinance – Update

Other Public Service Announcements included the following:

- ◆ We Used to Call Them “Swamps” – Chamber of Commerce Newsletter
- ◆ Stormwater Management Regulations; Disaster Assistance – Disaster Committee Web Pages
- ◆ An Overview of the Second Draft of the DuPage County Stormwater and Floodplain Ordinance – DMMC Stormwater Forum

- ◆ DuPage County Municipal Engineers Group Meeting – Attended 7 meetings – DuPage County

### **PUBLIC INFORMATION/INVOLVEMENT**

#### ***B.3: Stakeholder Meeting***

##### ***Goals***

Stakeholder meetings provide the opportunity for individuals and groups of people with a vested interest in storm water management and water quality to exchange ideas and goals. The Village will continue support of the DRSCW, Municipal Engineers Advisory Group and the Storm Water Quality Stakeholders' Committee meetings.

##### ***Year 3 Milestones***

Continue participation in the DRSCW, Municipal Engineers Advisory Group and the Storm Water Quality Stakeholders' Committee meetings. Continue financial support of the DRSCW.

##### ***Summary of Accomplishments***

Village Staff regularly attended and provided input at Municipal Engineers Group meetings on the following topics:

- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics including:
  - 25,000 SF Detention Threshold – Exemption Vs. Deferral
  - Variable Effective Dates and Sunset Clause for Current Applications
  - 45-Day Public Comment Period
  - Discussion of Municipal Engineer's Meeting Group vs. MEG from Draft Ordinance
  - Proposed Project Timeline
  - General Certifications
- ◆ NPDES Annual Report
- ◆ Sediment and Erosion Control Workshop Announcement
- ◆ Sustainable Design Challenge
- ◆ Water Quality Grant
- ◆ Annual Report Reminder

DuPage County continued monitoring outfalls as part of the IDDE Program.

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The Village and DuPage County held a meeting with the residents along the siphon route for the Armstrong Park Flood Control Project and another neighborhood meeting was held to inform residents on the design and schedule of the overall project. The Carol Stream Park District also held a neighborhood meeting.

A Disaster Committee Meeting was held with neighborhood residents, Carol Stream Fire Protection District and Village Staff.

Village Staff regularly attends the DRSCW meetings to discuss and address TMDL issues. Staff participates with other Municipal Engineers, Public Works Directors, POTWs, IEPA and various environmental groups. The DRSCW accomplished the following:

- ◆ Ambient chloride monitoring
- ◆ Dissolved oxygen monitoring
- ◆ Bioassessment sampling
- ◆ Data analysis
- ◆ Assessment reports
- ◆ Continued with legislation to fund Stormwater quality improvement projects through IEPA NPDES fees.

Village Staff has participated on a DRSCW subcommittee for the Chloride Usage Education & Reduction Study. The Village Engineer chaired this subcommittee in implementing chloride reducing strategies through monitoring and education.

The Village Engineer was a participant on the DRSCW Projects Committee. This committee developed an Integrated Priority System (IPS) that will be used to identify, prioritize and recommend various water quality improvement projects by objective criteria.

Village Staff met with representatives to discuss their stormwater concerns with Wheaton College's proposed baseball field facility project. Numerous other meetings were held with local residents to inform them of the project design and schedule.

Village Staff met with Home Depot and Belmont Village representatives concerning flooding damages at their facility on Schmale Road.

Community Development staff met with representatives from Colony Park to discuss expansion of their clubhouse building.

Community Development staff also met with representatives from the Carolshire Commons Condominium Association to discuss various needed improvements at the complex.

The Village's consultant for the Central Park Pond Shoreline Remediation Project provided responses to concerns raised by the Homeowners Association.

Village Staff met with representatives from Mona Kea to discuss stormwater flooding issues.

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### ***B.4: Public Hearing***

#### ***Goals***

The Village utilizes several different public hearings or meetings to allow for public comment and involvement. These meetings afford the opportunity for concerned citizens to gain insight into the different storm water policies, procedures, regulations, programs and initiatives. Public hearings can be in the form of informational meetings for private as well as public projects, Plan Commission and Zoning Board of Appeals meetings, Village Board meetings or committee meetings. Changes or variances to the Storm Water Ordinance will require Village Board approval at a Board meeting.

The Village will hold public meetings as necessary for any storm water ordinance changes or variances, continue to hold Plan Commission and Zoning Board of Appeals and Village Board meetings for subdivisions, grant of easements, annexations, preliminary plans, special use permits and planned unit developments and conduct open house informational meetings on major Village projects.

#### ***Year 3 Milestones***

Continue to hold public hearings or meetings for storm water ordinance changes, variances, subdivisions, grant of easements, annexations, preliminary plans, special use permits, planned unit developments and major Village projects.

#### ***Summary of Accomplishments***

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 18 special use requests, 6 planned unit developments, 13 variances and on these other following items:

- ◆ Public Hearings and Ordinances
  - LaMantia Property Annexation Agreement
  - North Avenue and Schmale Road Tax Increment Financing District
  - Ordinance scheduling a TIF Joint Review Board Meeting
  - Amendment to the McCaslin Park Annexation Agreement
  - Apartment Recycling Pilot Program Presentation – Greenway Recycles!
- ◆ Award of Contracts and Change Orders
  - Hoving Clean Sweep, LLC – Street Sweeping Services
  - Tri-R Systems, Inc. – Design & Installation of a SCADA System
  - A. Lamp to crush Concrete on WRC Property
  - Pond Shoreline and Wetland Maintenance Contract
  - Southwest Water Main Extension Project
  - Engineering Services Agreement for Construction & Administration – Southwest Water Main Extension Project

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- Fair Oaks Road LAPP – Phase III Construction Services
- Baxter & Woodman – Sludge Aeration Energy Efficiency Contract Amendment
- Construction of a Sodium Hypochlorite Delivery System at the WRC
- Aqua-Aerobic Systems – Filtration Plates & Other Materials
- Independent Contractor Agreements – Snowplowing Contractors
- Local Agency Agreement for Federal Participation – Fair Oaks Road LAPP Project
- Award of Contract - Klein Creek & Thunderbird Creek Debris and Obstruction Removal Project – Pessina Tree Service LLC
- Award of Contract – Klein Creek Flood Plain Structure Demolition Project
- Award of Consultant Contract Amendment No. 2 – Southwest Water Main Extension Project.
- Award of Consultant Contract for Special Management Area Reviews – Christopher B. Burke Engineering Ltd.
- Award of Consultant Contract – Phase III Construction Services for Kuhn Road Bikeway
- Change Order #1 – Sanitary Sewer Flow Monitoring Project
- Award of Contract for the 2011 Asphalt Rejuvenator Project
- Award of Contract for the 2011 Asphalt Restorative Sealer
- Award of Contract – Landscape Maintenance
- ◆ Reports
  - Request for Approval of an Easement Encroachment
  - R.S. Hughes Company Inc. - North Avenue Corridor Review
  - Kingcreek, Inc. - North Avenue Corridor Review
  - Windfall Group - Gary Avenue Corridor Review
  - Gary at North Center Shopping Plaza - Gary Avenue Corridor Review
  - Direct Import Home Decor - Gary Avenue Corridor Review
  - Northern Builders/Temple Inland Corporation - Gary Avenue Corridor Review
  - Bulldog Ale House - Gary Avenue Corridor Review
  - Carol Stream Park District – North Avenue Corridor Review and approval of a new ground sign for Red Hawk Park
- ◆ Ordinances & Resolutions
  - Resolution Approving a Final Plat of Subdivision – McDonalds USA, LLC
  - Resolution Accepting a Grant of Storm Water Management and Conveyance Easement – 795 Kimberly Road
  - Resolution Accepting Public Improvements – Easton Park Townhome Subdivision Phase I
  - Resolution Authorizing and Agreement Under the Adopt-A-Highway Program (Lies & Gary to County Farm) – The Young Men’s Service League
  - Resolution Authorizing Execution of an Agreement Under the Adopt-A-Highway Program (Lies Rd from Schmale Rd to Gary Ave) – FIC America.
  - Resolution Approving an Intergovernmental Agreement with the County of DuPage and Carol Stream Park District for the design of various public improvements
  - Ordinance Authorizing the Execution of a First Amendment to an Annexation Agreement for McCaslin Park



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- Ordinance designating the Village of Carol Stream North Avenue and Schmale Road Tax Increment Financing District Redevelopment Project Area.
- Ordinance Approving the Village of Carol Stream North Avenue and Schmale Road Tax Increment Financing District Redevelopment Project Area Redevelopment Plan & Project.
- Ordinance Adopting Tax Increment Financing for the Village of Carol Stream North Avenue and Schmale Road Tax Increment Financing District.
- Ordinance establishing the North Avenue and Schmale Road Tax Increment Financing Fund
- Ordinance amending the Carol Stream Code of Ordinances and Approving the Waiver of Permit Fees and Security Requirements for Governmental Agencies

DuPage County Stormwater Committee conducted a public hearing for the revised Stormwater Ordinance on March 6<sup>th</sup>, 2012 and held two public review and comment periods where the public was afforded the opportunity to submit comments on the revised ordinance.

The Village held a Joint Review Board meeting for the proposed North Avenue and Schmale Road TIF District.

### ***B.6: Program Coordination***

#### ***Goals***

The Village's Storm Water Management Program provides policy, direction and procedures to ensure all programs are properly coordinated. The Village will continue to review and update the Program as needed.

#### ***Year 3 Milestones***

Review the Storm Water Management Program and make the appropriate changes where necessary.

#### ***Summary of Accomplishments***

The following changes were made in our policies and procedures thus revising the Storm Water Management Program:

- ◆ Previously the Village's Street Sweeping Program was reduced by 50% to roadways being swept approximately four times per year. With the use of contracted street sweeping services the program was restored to 8 street sweepings per year.

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### ***B.7: Other Public Involvement***

#### ***Goals***

In 1999 the Village began its annual Pond & Stream Sweep clean up event. This event was modeled after the popular DuPage County River Sweep where volunteers clean up sections of rivers. The Village had previously implemented a successful Adopt-A-Highway Program and felt our ponds and streams also needed attention. The Village began its Pond Shoreline & Stream Bank Restoration Program in 1998. This Program saw the completion of four restoration projects utilizing bioengineering practices on pond shorelines, stream banks and wetlands. The Village then began its Pond & Stream Management Program where these and other natural areas are continually evaluated and maintained.

The Village will continue with the Pond & Stream Sweep and Adopt-A-Highway Programs as well as maintaining the existing illegal dumping signs around the protected areas.

#### ***Year 3 Milestones***

Continue to conduct both our annual Pond & Stream Sweep and our Adopt-A-Highway Program events. Maintain existing illegal dumping signs.

#### ***Summary of Accomplishments***

The Village held its annual Pond & Stream Sweep on Saturday, May 21st. 72 volunteer, 5 businesses and 2 families removed 2,000 lbs. of trash and debris from 9.5 miles of shorelines along 14 ponds and stream sections. At this event storm water educational material is provided to all the volunteers (Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help).

Carol Stream's Adopt-A-Highway Program utilized numerous volunteers from 6 organizations. They performed 19 cleanings removing trash from 22 miles of roadways that could've otherwise entered our streams and ponds.

The Village conducted an Earth Day Community Recycling Event on Saturday, May 7<sup>th</sup>, 2011 where 27,000 pounds of electronics were collected, all for recycling.

The Park District held an Eco-Festival & Farmer's Market where Village Staff provided information on water conservation and other environmental materials.

The Village's Rx Box Program collected 1,132 lbs. of drugs and medical supplies.

A total of 3,032 lbs. of holiday lights were collected for recycling yielding 303 lbs. of industry-grade copper. The entire proceeds were donated to the Village's Christmas Sharing Program.

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Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

DuPage County held a presentation on the Substantial Improvement and Substantial Damage: NFIP Requirements During Non-Disaster Times

Village Staff met with several prospective developers including: Director Import Home Décor, Easton Park, Peacock Engineering, McDonalds, Extreme Trampolines, CSPD Recreation Center, McCaslin Park, Veterans Trail Repaving, Tedrahn Park, Wheaton College Baseball Field, Caputo's, Temple Inland and Illinois Central School Bus

The Village hired a consultant who made a presentation to the Central Park Home Owner's Association on natural areas management.

The Village obtained Storm Ready Certification from the National Weather Service where we incorporated the use of civilian volunteers through our CERTS program.

### ***ILLICIT DISCHARGE DETECTION & ELIMINATION***

#### ***C.1: Storm Sewer Map Preparation***

##### ***Goals***

The Village has created a map showing the location of all storm sewer outfalls within our jurisdiction. This map was created using a global positioning system (GPS) to locate features and a geographical information system (GIS) to map those features. We have also created a GIS storm sewer system map utilizing an existing Mylar map. These maps have been provided to DuPage County in GIS format and will be utilized in their regional IDDE Program for monitoring and tracing purposes. We have begun collecting GPS coordinates and attribute data on all the storm sewer network features.

The Village will update our MS4 storm sewer outfall map as necessary. We will continue to collect GPS coordinates of storm water map features and revise our storm sewer system map. Both the storm sewer system and storm sewer outfall maps will be provided to DuPage County as updates are made.

##### ***Year 3 Milestones***

Carol Stream will continue to update both its storm sewer outfall and storm sewer system maps using GPS and GIS technology. We will provide revised maps to DuPage County in the requested format.

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### ***Summary of Accomplishments***

The Village collected 1,997 utility (water, sanitary sewer and storm sewer) coordinates in 2011 utilizing GPS technologies. In total the Village has collected 10,349 GPS coordinates of utility structures over the last several years. This accounts for over 95% of all storm sewer structures, both public and private, in the Village.

The Storm Sewer Outfall Map was updated.

The following storm water management maps were created:

- ◆ Public Works Water System Map
- ◆ Public Works Sanitary Sewer Map – Basin 39

## ***C.2: Regulatory Control Program***

### ***Goals***

Carol Stream was required to participate with DuPage County and other municipalities in the formation of regulatory controls as part of the IDDE control measure. Carol Stream participated in the Storm Water Quality Stakeholders' Committee monthly meetings throughout all five years of the permit. The Committee's recommendations on mapping, monitoring, tracing and enforcement processes and procedures were periodically brought to the Municipal Engineers Advisory Group. The Committee has also produced a draft IDDE ordinance.

The Village will adopt an Illicit Discharge Detection & Elimination ordinance and continue to participate on the Municipal Engineers Advisory Group in the preparation of regulatory processes and procedures.

### ***Year 3 Milestones***

Participate on the Municipal Engineers Advisory Group in the preparation, review or revision of regulatory processes and procedures. Communicate and exchange with DuPage County the required information for an effective program.

### ***Summary of Accomplishments***

DuPage County continued monitoring outfalls through dry weather screening as part of the IDDE Program.

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Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where the initial IDDE Program Technical Guidance was discussed and developed. The Village Engineer has been an active participant in the DRSCW funded the development of a sanitary sewer Septic System Map for Targeted Sub-basin Project conducted by the Illinois EPA.

### ***C.5: Illicit Source Removal Procedures***

#### ***Goals***

The Village's IDDE ordinance will provide the necessary legal structure and the authority to remove the source of an illicit discharge. This measure is being written into Carol Stream's IDDE ordinance and will be tested when an illicit discharge has been detected. Upon notification from DuPage County that they have positively identified the illicit discharge source, the Village will follow the protocols to have the illicit discharge removed.

Carol Stream staff will measure the success of this BMP by reviewing how many illicit discharges were removed compared to how many were traced to their source. If there are instances where an illicit discharge source was identified but we were not legally able to remove that discharge the removal procedures and process may need to be modified.

#### ***Year 3 Milestones***

Once DuPage County notifies the Village of the source of an illicit discharge, the protocols set forth in the technical guidance chapter will be followed to have that illicit discharge removed. Carol Stream will provide DuPage County with the status of each illicit discharge that is in the process of being removed.

#### ***Summary of Accomplishments***

An illicit discharge violation was identified at the WRC grounds. The operator was directed to confirm and graphically identify the storm and sanitary sewer systems throughout the plant site. Identify points of potential exposure of the storm sewer system to overflows from the sanitary system, identify ways where practicable to eliminate potential exposures, develop plans to protect and isolate the storm sewer system in cases of sanitary sewer overflows, and identify specific actions to be taken in cases of sanitary sewer overflows.

A sanitary sewer manhole overflow was also identified at the Schmale Road – Phillips Drive intersection. The overflow was contained and the separated pipe was repaired the same day.

The Village responded to another sanitary sewer overflow incident that occurred as a result of damage by another utility on Kimberly Drive. The damaged sanitary sewer was repaired by the utility company.

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A small sanitary sewer back up occurred at a single family house on Tama Ct. which was the result of I&I into the sanitary system. The Village is undergoing a specific study to address the I&I and has entered into a Compliance Commitment Agreement with IEPA.

The Village responded to a hazardous materials leak on Randy Road where a paint type material had leaked in a room with other volatile chemicals. Village staff monitored the sewer systems to ensure none of the chemicals were present.

The Villages Waste Water Treatment Plant operator detected two instances of an illicit discharge into the sanitary sewer system. The illicit discharge was identified as ethyl acrylate and Village staff working with the operator worked to identify the source of the chemical.

A water main break on Bristol Drive caused a break in the sanitary sewer service to several homes that resulted in sewer back-ups. The water main and damaged sanitary sewer service were repaired and cleared the sanitary sewer of debris

The Village completed an upgrade to its chlorine delivery system at the Water Reclamation Center which included leak detection and redundancy designs.

The Village worked with Benjamin School District 25 to expand their existing septic field.

An illicit discharge occurred of untreated sewage from the Water Reclamation Center into a detention pond and Klein Creek. The illicit discharge was caused by a large piece of wood lodged in the screw conveyor. The blockage was removed and the plant returned to normal operations. IEPA was notified of the incident.

### *C.6: Program Evaluation & Assessment*

#### *Goals*

Carol Stream staff will review our mapping, regulatory control program and source removal procedures of the IDDE Program on an annual basis. The review will focus on the effectiveness of the Program and recommendations will be provided when staff believes changes should be made to the program. A review of the program is an essential step that will allow Carol Stream to modify the IDDE Program as it is needed. The success of this BMP will be measured by the number of reviews performed. If the Program is successful, and there are no recommendations calling for any changes to the Program, this step will have afforded staff the opportunity to learn from the successes of the Program. Any necessary changes to the mapping, regulatory control or source removal procedures that would aid in removing illicit discharges will be evaluated for modifications to the Program. Changes will be made where deemed appropriate and necessary.

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### ***Year 3 Milestones***

Continue with the annual evaluation and assessment processes developed in the first year.

### ***Summary of Accomplishments***

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance. Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

The Village continued collecting GPS coordinates for both public and private storm sewer systems, approximately 95% complete, to develop a comprehensive map of the entire system. Connectivity and pipe networking of GPS structures is on going. Once completed the map will be provided to DuPage County which will better enable them to trace illicit discharges and identify their source(s).

Engineering Staff is a member and active participant in the DRSCW which monitors all three watersheds. The Village Engineer is also a member of the Septic Field Mapping Project team charged with mapping potential sources of fecal coliform in DuPage County. This is a pilot study project that includes parts of Carol Stream and adjoining unincorporated areas.

Village staff attended the following education seminars: Public Act 96-1416, Clean Construction and Demolition Debris (CCDD), NPDES Inspections...From the Inspectors Perspective and LPC-633, Uncontaminated Soil Certification, What's New!

Updated the Village's "Environmental Web Portal" and "Storm Water Management" web page that offers a wealth of information on the Village's efforts toward addressing storm water quality issues and how residents can make an impact. Environmental Web Portal and Storm Water Management web page updates include the following:

- ◆ Updated Hyperlinks on Environmental Web Portal
  - IDDE Program
- ◆ Provided review comments on new web site

**CONSTRUCTION SITE RUNOFF CONTROL**

***D.1: Regulatory Control Program***

***Goals***

In 1991 Carol Stream adopted and implemented the DuPage County Countywide Storm Water and Flood Plain Ordinance (Storm Water Ordinance). The Storm Water Ordinance has been amended numerous times over the past seventeen year, five times since the last NOI was issued in February 2002 and most recently in February 2006. The Storm Water Ordinance promotes effective, equitable, acceptable and legal storm water management control measures. Carol Stream enforces all provisions of the Storm Water Ordinance. The Storm Water Ordinance was revised in February '06 to reflect changes to the sediment and erosion control provisions. However, updating Technical Guidance Appendix E was not completed due to lack of staffing and lack of funds. Updating Appendix E will resume in the new permit, beginning with the inclusion of the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual).

The Village will assist DuPage County with the adoption of the BMP Manual, adopt an updated Storm Water Ordinance that incorporates the BMP Manual, continue to adopt the Storm Water Ordinance as new revisions are made and train staff on the new requirements of the Storm Water Ordinance and the technical guidance in the BMP Manual.

***Year 3 Milestones***

Carol Stream will continue to adopt the Storm Water Ordinance as it is updated by DuPage County to keep up with local and national regulations while implementing appropriate best management practices to lower quantities of pollutants from ending up in out waterways and drinking water. Village personnel will attend educational and training sessions as offered by DuPage County to help maintain a more consistent and effective application of the regulations throughout the county.

***Summary of Accomplishments***

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Modeling requirements for minor excavations in the floodway.
- ◆ Flood response efforts.
- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics including:
  - Impervious Area as a Determination for Detention
  - Water Quality Control Volume
  - Substantial Damage/Improvement Determinations



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- General Certifications
  - Buffer Mitigation for Minor Impacts
  - Accessory Structures in the Flood Plain
  - Stream Bank Stabilization
  - Boat Lifts & Piers
  - Sidewalks, Trails, Driveways & Patios
  - Sign Posts, Fencing and Guardrails
  - Top Soil and Sand Restoration
  - Utilities
  - Boardwalks
  - Decks
  - Storm Sewer Outfalls and Outlet Channels
  - Recreational Facilities
  - Demolition of Single Family Homes, Garages and Sheds
  - Rehabilitative Maintenance of Roadways, Bridges, Culverts & Storm sewers
- Flood Plain Compensatory Storage
- Wetland Mitigation
- Modeling
- Sediment & Erosion Control
- ◆ NPDES Annual Report

Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

The following DuPage County training sessions were attended:

- ◆ Public Act 96-1416, Clean Construction and Demolition Debris (CCDD)
- ◆ Stormwater Permits Program – Current Issues
- ◆ LPC-633, Uncontaminated Soil Certification. What's New!

## ***D.2: Erosion & Sediment Control BMPs***

### ***Goals***

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) provides guidance on the design and implementation of development practices that prevent storm water quality degradation and enhance the overall quality of storm water. The BMP manual promotes and gives guidelines on the installation of vegetated filter strips, vegetated swales, infiltration systems, permeable pavers, manufactured structures, and storm water detention BMPs such as dry detention basins, wet detention basins, constructed wetland detention basins and underground detention basins. These BMPs can be utilized for construction site run-off control. In addition the Storm Water Ordinance has specific requirements in the sediment and erosion control section which must be met before a storm water permit will be issued for the proposed work.

The Village will attend training sessions on how to regulate the BMP Manual and train staff on new regulations as they become effective.

### ***Year 3 Milestones***

Ensure staff has professional ability and appropriate certifications (when necessary) to review and inspect the guidelines of the BMP Manual. Continue to educate staff on the evolving regulations by attending training programs and seminars.

### ***Summary of Accomplishments***

All Engineering technical employees (4) have previously attended the Certified Profession in Erosion & Sediment Control training. In addition the following training courses have been attended by one or more staff:

- ◆ Compost Technology as it Relates to Erosion and Sediment Control
- ◆ NPDES Inspections – From the Inspector’s Perspective

## ***D.4: Site Plan & Review Procedures***

### ***Goals***

The Storm Water Ordinance requires a storm water permit for all developments of 5,000 square feet or greater or developments in or effecting special management areas (SMAs): wetlands and wetland buffer areas, floodplains, floodways or riparian areas. This is to ensure that there are no adverse impacts as a result of the development. Carol Stream administers all provisions of the Storm Water Ordinance which must be met before a storm water permit will be issued for a development. DuPage County has developed and maintained a successful regulatory permitting program and will continue to implement and update the program as necessary. Monthly meetings with a group of Countywide Storm Water Administrators (Municipal Engineers

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Advisory Group) to discuss ordinance related issues ensures the Storm Water Ordinance is implemented consistently, fairly and effectively throughout the County. The Municipal Engineers group will continue to meet during the next permit period.

The Village will continue reviewing storm water permit applications in conformance with Storm Water Ordinance, aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated and offer training opportunities to staff.

### ***Year 3 Milestones***

Adopt updated Storm Water Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual). Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

### ***Summary of Accomplishments***

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Modeling requirements for minor excavations in the floodway.
- ◆ Flood response efforts.
- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics including:
  - Impervious Area as a Determination for Detention
  - Water Quality Control Volume
  - Substantial Damage/Improvement Determinations
  - General Certifications
    - Buffer Mitigation for Minor Impacts
    - Accessory Structures in the Flood Plain
    - Stream Bank Stabilization
    - Boat Lifts & Piers
    - Sidewalks, Trails, Driveways & Patios
    - Sign Posts, Fencing and Guardrails
    - Top Soil and Sand Restoration
    - Utilities
    - Boardwalks
    - Decks
    - Storm Sewer Outfalls and Outlet Channels
    - Recreational Facilities
    - Demolition of Single Family Homes, Garages and Sheds

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- Rehabilitative Maintenance of Roadways, Bridges, Culverts & Storm sewers
- Flood Plain Compensatory Storage
- Wetland Mitigation
- Modeling
- Sediment & Erosion Control
- ◆ NPDES Annual Report

Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

Through the use of an engineering consultant, all storm water permit submittals were reviewed. A total of 16 permits were issued.

### ***D.5: Public Information Handling Procedures***

#### ***Goals***

Carol Stream offers numerous opportunities for the public to review and comment on storm water issues related to a development. Staff is available to answer questions or concerns and frequently arranges meetings to discuss issues. Different public meetings give the public the opportunity to hear testimony, view plans, raise concerns and make comments. Those meetings include: Plan Commission and Zoning Board of Appeals meetings, Village Board meetings, committee meetings or our Listening Post. For those instances where staff can not answer their questions they can utilize the Freedom of Information Act process.

Carol Stream has a Citizen Service Request (CSR) process where individual can file complaints or seek staff assistance on drainage and other storm water issues. As CSRs are received they are assigned to an employee, investigated and responded to the citizen. Sometimes enforcement action is necessary. The Village also has a database to track the status of the CSR.

The Village will continue handling all complaints and requests through the Village's CSR process, hold public meetings where they can view plans and comment on storm water issues and offer meetings where development or the public can comment on storm water concerns.

DuPage County held a public hearing on the proposed modifications to the DuPage County Countywide Stormwater & Flood Plain Ordinance on March 6, 2012.

DRSCW conducted the following technical presentations: Stormwater Permits Program: Current Issues; Watershed – Based NPDES Permitting

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### ***Year 3 Milestones***

Adopt updated Storm Water Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual). Continue to field public concerns about proposed developments and implement their concerns in the Stormwater Permit review of the proposed development. Continue to update Village website with ongoing activities and policies. Continue to field public complaints and requests utilizing the Village's CSR process. Conduct open public meetings where the public can comment on storm water issues. Continue to offer meetings for developers as well as the public to obtain information and comment on storm water concerns.

### ***Summary of Accomplishments***

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Modeling requirements for minor excavations in the floodway.
- ◆ Flood response efforts.
- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics including:
  - Impervious Area as a Determination for Detention
  - Water Quality Control Volume
  - Substantial Damage/Improvement Determinations
  - General Certifications
    - Buffer Mitigation for Minor Impacts
    - Accessory Structures in the Flood Plain
    - Stream Bank Stabilization
    - Boat Lifts & Piers
    - Sidewalks, Trails, Driveways & Patios
    - Sign Posts, Fencing and Guardrails
    - Top Soil and Sand Restoration
    - Utilities
    - Boardwalks
    - Decks
    - Storm Sewer Outfalls and Outlet Channels
    - Recreational Facilities
    - Demolition of Single Family Homes, Garages and Sheds
    - Rehabilitative Maintenance of Roadways, Bridges, Culverts & Storm sewers
  - Flood Plain Compensatory Storage
  - Wetland Mitigation
  - Modeling

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## *Annual Facility Inspection Report – Section B*

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- Sediment & Erosion Control
- ◆ NPDES Annual Report

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 18 special use requests, 6 planned unit developments, 13 variances and on these other following items:

- ◆ Public Hearings and Ordinances
  - LaMantia Property Annexation Agreement
  - North Avenue and Schmale Road Tax Increment Financing District
  - Ordinance scheduling a TIF Joint Review Board Meeting
  - Amendment to the McCaslin Park Annexation Agreement
  - Apartment Recycling Pilot Program Presentation – Greenway Recycles!
- ◆ Award of Contracts and Change Orders
  - Hoving Clean Sweep, LLC – Street Sweeping Services
  - Tri-R Systems, Inc. – Design & Installation of a SCADA System
  - A. Lamp to crush Concrete on WRC Property
  - Pond Shoreline and Wetland Maintenance Contract
  - Southwest Water Main Extension Project
  - Engineering Services Agreement for Construction & Administration – Southwest Water Main Extension Project
  - Fair Oaks Road LAPP – Phase III Construction Services
  - Baxter & Woodman – Sludge Aeration Energy Efficiency Contract Amendment
  - Construction of a Sodium Hypochlorite Delivery System at the WRC
  - Aqua-Aerobic Systems – Filtration Plates & Other Materials
  - Independent Contractor Agreements – Snowplowing Contractors
  - Local Agency Agreement for Federal Participation – Fair Oaks Road LAPP Project
  - Award of Contract - Klein Creek & Thunderbird Creek Debris and Obstruction Removal Project – Pessina Tree Service LLC
  - Award of Contract – Klein Creek Flood Plain Structure Demolition Project
  - Award of Consultant Contract Amendment No. 2 – Southwest Water Main Extension Project.
  - Award of Consultant Contract for Special Management Area Reviews – Christopher B. Burke Engineering Ltd.
  - Award of Consultant Contract – Phase III Construction Services for Kuhn Road Bikeway
  - Change Order #1 – Sanitary Sewer Flow Monitoring Project
  - Award of Contract for the 2011 Asphalt Rejuvenator Project
  - Award of Contract for the 2011 Asphalt Restorative Sealer
  - Award of Contract – Landscape Maintenance
- ◆ Reports
  - Request for Approval of an Easement Encroachment
  - R.S. Hughes Company Inc. - North Avenue Corridor Review

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- Kingcreek, Inc. - North Avenue Corridor Review
- Windfall Group - Gary Avenue Corridor Review
- Gary at North Center Shopping Plaza - Gary Avenue Corridor Review
- Direct Import Home Decor - Gary Avenue Corridor Review
- Northern Builders/Temple Inland Corporation - Gary Avenue Corridor Review
- Bulldog Ale House - Gary Avenue Corridor Review
- Carol Stream Park District – North Avenue Corridor Review and approval of a new ground sign for Red Hawk Park
- ◆ Ordinances & Resolutions
  - Resolution Approving a Final Plat of Subdivision – McDonalds USA, LLC
  - Resolution Accepting a Grant of Storm Water Management and Conveyance Easement – 795 Kimberly Road
  - Resolution Accepting Public Improvements – Easton Park Townhome Subdivision Phase I
  - Resolution Authorizing and Agreement Under the Adopt-A-Highway Program (Lies & Gary to County Farm) – The Young Men’s Service League
  - Resolution Authorizing Execution of an Agreement Under the Adopt-A-Highway Program (Lies Rd from Schmale Rd to Gary Ave) – FIC America.
  - Resolution Approving an Intergovernmental Agreement with the County of DuPage and Carol Stream Park District for the design of various public improvements
  - Ordinance Authorizing the Execution of a First Amendment to an Annexation Agreement for McCaslin Park
  - Ordinance designating the Village of Carol Stream North Avenue and Schmale Road Tax Increment Financing District Redevelopment Project Area.
  - Ordinance Approving the Village of Carol Stream North Avenue and Schmale Road Tax Increment Financing District Redevelopment Project Area Redevelopment Plan & Project.
  - Ordinance Adopting Tax Increment Financing for the Village of Carol Stream North Avenue and Schmale Road Tax Increment Financing District.
  - Ordinance establishing the North Avenue and Schmale Road Tax Increment Financing Fund
  - Ordinance amending the Carol Stream Code of Ordinances and Approving the Waiver of Permit Fees and Security Requirements for Governmental Agencies

DuPage County Stormwater Committee conducted a public hearing for the revised Stormwater Ordinance on March 6<sup>th</sup>, 2012 and held two public review and comment periods where the public was afforded the opportunity to submit comments on the revised ordinance.

The Village held a Joint Review Board meeting for the proposed North Avenue and Schmale Road TIF District.

Received, investigated and resolved 29 drainage and storm water issues through the Village’s CSR process.

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Village Staff have held 89 pre-application and plan review meetings with developers and their engineers to provide direction on storm water permit submittal requirements.

Updated the Village’s “Environmental Web Portal” and “Storm Water Management” web page that offers a wealth of information on the Village’s efforts toward addressing storm water quality issues and how residents can make an impact. Environmental Web Portal and Storm Water Management web page updates include the following:

- ◆ Storm Water Management Webpage Additions
  - Storm Water Management Regulations
- ◆ Provided review comments on new web site

### ***D.6: Site Inspection/Enforcement Procedures***

#### ***Goals***

Staff periodically conducts site inspections to ensure the project has complied with the requirements of the storm water permit. The contractor must maintain the proper sediment and erosion control throughout the construction period. If sediment and erosion control measures are not being maintained Carol Stream will notify the contractor/developer of the infraction and issue a date when they must come into compliance. If the infraction is not resolved within the specified time period a warning will be issued. If the violation is not corrected within 24 hours a Stop Work Order will be issued and a fine can be levied. At that time all work must stop until the issue has been satisfactorily resolved and the Village has lifted the Stop Work Order.

The Village will continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and offer staff training opportunities on site inspections of storm water management facilities.

#### ***Year 3 Milestones***

Ensure staff has proper qualifications to conduct site inspections with respect to sediment and erosion control. Continue to offer employees the ability to attend training on site inspections of storm water management facilities.

#### ***Summary of Accomplishments***

All Engineering technical employees (4) have previously attended the Certified Profession in Erosion & Sediment Control training. In addition the following training courses have been attended by one or more staff:

- ◆ Compost Technology as it Relates to Erosion and Sediment Control
- ◆ NPDES Inspections – From the Inspector’s Perspective



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All construction sites were inspected for soil and erosion control in 2011. A previously created inspection log was integrated into a database to track and document inspections.

### ***POST CONSTRUCTION RUNOFF CONTROL***

#### ***E.2: Regulatory Control Program***

##### ***Goals***

Post construction runoff is limited through the Stormwater Ordinance which requires all developments over 25,000 square feet of development area to detain storm water and runoff with a restricted release rate. The Stormwater Ordinance requires that all storm water management facilities be designed with BMPs. The Village has set a policy that BMPs for storm water storage facilities are designed and constructed with wetland shelves and native prairie buffer plantings.

The Storm Water Ordinance also addresses site redevelopment through a program called SERZ. SERZ is "storm water economic redevelopment zone". The purpose of SERZ is to assist highly impervious sites when redevelopment is proposed, where providing the full amount of detention is not practicable and the Detention Variance Fees discourage redevelopment. Also, SERZ is a standard used when applying for a variance under Section 15-114, effectively leveling the playing field by providing a minimum standard for approving variances for these developments, where there were no minimum standards under the previous ordinance.

The Village will aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated and offer training opportunities to staff.

##### ***Year 3 Milestones***

Adopt updated Storm Water Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual). Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

##### ***Summary of Accomplishments***

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the DuPage County Water Quality Best Management Practices Technical Manual since then.

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Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Modeling requirements for minor excavations in the floodway.
- ◆ Flood response efforts.
- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics including:
  - Impervious Area as a Determination for Detention
  - Water Quality Control Volume
  - Substantial Damage/Improvement Determinations
  - General Certifications
    - Buffer Mitigation for Minor Impacts
    - Accessory Structures in the Flood Plain
    - Stream Bank Stabilization
    - Boat Lifts & Piers
    - Sidewalks, Trails, Driveways & Patios
    - Sign Posts, Fencing and Guardrails
    - Top Soil and Sand Restoration
    - Utilities
    - Boardwalks
    - Decks
    - Storm Sewer Outfalls and Outlet Channels
    - Recreational Facilities
    - Demolition of Single Family Homes, Garages and Sheds
    - Rehabilitative Maintenance of Roadways, Bridges, Culverts & Stormsewers
  - Flood Plain Compensatory Storage
  - Wetland Mitigation
  - Modeling
  - Sediment & Erosion Control
- ◆ NPDES Annual Report

Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

The following DuPage County training session was attended:

- ◆ Public Act 96-1416, Clean Construction and Demolition Debris (CCDD)
- ◆ Stormwater Permits Program – Current Issues

- ◆ LPC-633, Uncontaminated Soil Certification. What’s New!

### ***E.3: Long Term O&M Procedures***

#### ***Goals***

The BMP Manual provides guidance on the design and implementation of development practices that prevent storm water quality degradation and enhance the overall quality of storm water. The methods outlined in the manual will be required to be in an easement that will be monitored over a three-year period to ensure the easement is maintained.

Currently, the Stormwater Ordinance requires all major and minor storm water facilities be put into an easement that has a three to five year maintenance and monitoring period. The revision and update to the Stormwater Ordinance to include the BMP updates will require all BMPs be put into an easement. All permanent BMPs on a proposed plan will have to include maintenance and monitoring plan for the BMPs. The Village will continue to accept storm water management and conveyance easements and wetland conservation easements.

#### ***Year 3 Milestones***

Adopt updated Storm Water Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual). Continue to enforce the Storm Water Ordinance and accept storm water management and conveyance easements and wetland conservation easements.

#### ***Summary of Accomplishments***

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Modeling requirements for minor excavations in the floodway.
- ◆ Flood response efforts.
- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics including:
  - Impervious Area as a Determination for Detention
  - Water Quality Control Volume
  - Substantial Damage/Improvement Determinations

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- General Certifications
  - Buffer Mitigation for Minor Impacts
  - Accessory Structures in the Flood Plain
  - Stream Bank Stabilization
  - Boat Lifts & Piers
  - Sidewalks, Trails, Driveways & Patios
  - Sign Posts, Fencing and Guardrails
  - Top Soil and Sand Restoration
  - Utilities
  - Boardwalks
  - Decks
  - Storm Sewer Outfalls and Outlet Channels
  - Recreational Facilities
  - Demolition of Single Family Homes, Garages and Sheds
  - Rehabilitative Maintenance of Roadways, Bridges, Culverts & Stormsewers
- Flood Plain Compensatory Storage
- Wetland Mitigation
- Modeling
- Sediment & Erosion Control
- ◆ NPDES Annual Report

Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Mangers Conference Review Group of the Ordinance update.

One easement was approved during the reporting period, and one subdivision accepted.

### ***E.4: Pre-construction Review of BMP Designs***

#### ***Goals***

The Storm Water Ordinance was revised in February 2006 to reflect changes to the sediment and erosion control provisions. The Stormwater Ordinance also requires that all storm water management facilities be designed with BMPs. Carol Stream has established a policy that BMPs for storm water storage facilities are designed and constructed with wetland shelves and native prairie buffer plantings where practical. Staff reviews the BMP designs during the permit process to ensure conformance with these requirements and policies.

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The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) provides guidance on the design and implementation of development practices that prevent storm water quality degradation and enhance the overall quality of storm water. The BMP manual promotes and gives guidelines on the installation of vegetated filter strips, vegetated swales, infiltration systems, permeable pavers, manufactured structures, and storm water detention BMPs such as dry detention basins, wet detention basins, constructed wetland detention basins and underground detention basins.

The Village will aid DuPage County with the adoption of the BMP Manual, perform plan reviews in conformance with the new BMP Manual requirements, adopt new Storm Water Ordinances as they are updated and offer training opportunities to staff.

### ***Year 3 Milestones***

Adopt updated Storm Water Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual). Perform plan reviews in conformance with the new BMP Manual requirements. Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

### ***Summary of Accomplishments***

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

The Village Board approved a professional engineering contract for review of storm water management permit submittals with pre and post construction BMPs.

Village Staff have held 89 pre-application and plan review meetings with developers and their engineers to provide direction on storm water permit submittal requirements.

Reviewed and issued 16 storm water management permits.

The following training courses have been attended by one or more staff:

- ◆ MWRDGC – Stormwater Management Projects
- ◆ Identifying and prioritizing Projects to Meet the Aquatic Life Goal of the Clean Water Act
- ◆ Turning Priorities on Selected Stream Segments into Implementation
- ◆ Developing and Putting Projects on the Ground
- ◆ Dam Modification and Segment Naturalization, Churchill Woods
- ◆ Macroinvertebrate Scores as a Function of Riparian Buffer Width
- ◆ DRSCW Integration & Prioritization System (IPS) Tool Workshop

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- ◆ West Branch DuPage River Survey Summary and Results
- ◆ Creating Priority Rankings Based on Estimated Restorability for Stream Segments in the DuPage – Salt Creek Watersheds
- ◆ Development of Ammonia Mass- Balance Techniques: Web-based Load Duration Curve System

### *E.5: Site Inspections During Construction*

#### *Goals*

Carol Stream inspectors continually inspect sites under construction to ensure sediment and erosion control is maintained throughout the site. Any sediment discharge leaving the site is immediately addressed by staff and may result in a Stop Work Order. The Village will aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated, continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and post construction BMPs and offer staff training opportunities on site inspections of BMPs.

#### *Year 3 Milestones*

Adopt updated Storm Water Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual). Continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and post construction BMPs. Continue to offer employees the ability to attend training on site inspections of BMPs.

#### *Summary of Accomplishments*

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

The Village Board took action on the following items:

- ◆ Award of Contracts and Change Orders
  - Pond Shoreline and Wetland Maintenance Contract
  - Award of Contract - Klein Creek & Thunderbird Creek Debris and Obstruction Removal Project – Pessina Tree Service LLC
  - Award of Contract – Klein Creek Flood Plain Structure Demolition Project
  - Award of Constultant Contract for Special Management Area Reviews – Christopher B. Burke Engineering Ltd.
  - Award of Contract – Landscape Maintenance
- ◆ Ordinances & Resolutions

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- Resolution Approving an Intergovernmental Agreement with the County of DuPage and Carol Stream Park District for the design of various public improvements
- Resolution Approving a Final Plat of Subdivision – McDonalds USA, LLC
- Resolution Accepting a Grant of Storm Water Management and Conveyance Easement – 795 Kimberly Road
- Resolution Accepting Public Improvements – Easton Park Townhome Subdivision Phase I

DuPage County Stormwater Committee conducted a public hearing for the revised Stormwater Ordinance on March 6<sup>th</sup>, 2012 and held two public review and comment periods where the public was afforded the opportunity to submit comments on the revised ordinance.

All construction sites were inspected for soil and erosion control in 2011. A previously created inspection log was integrated into a database to track and document inspections.

The following training courses have been attended by one or more staff:

- ◆ Public Act 96-1416, Clean Construction and Demolition Debris (CCDD)
- ◆ NPDES Inspections...From the Inspector's Perspective
- ◆ Stormwater Permits Program – Current Issues
- ◆ LPC-633, Uncontaminated Soil Certification. What's New!

Four Engineering employees previously completed the Certified Profession in Erosion & Sediment Control training.

### ***E.6: Post Construction Inspections***

#### ***Goals***

Post Construction sites are required to submit as-built drawings and calculations documenting the project constructed in conformance with all the requirements of the original permit. The as-built certification must be signed off before the corresponding storm water management security is released. Engineering Staff and SMA consultants are utilized to ensure the site meets full compliance through inspections and as-built reviews. SMA consultants will also continue inspections to ensure native planting areas and wetland mitigation areas are maintained for up to five years beyond the time of construction completion.

Update the Storm Water Ordinance to include the BMP Manual. The BMP manual will require all BMPs to be put into a Natural Area Easement that will be monitored for three years after construction is completed. The Village will aid DuPage County with the adoption of the BMP Manual, adopt new Storm Water Ordinances as they are updated, continue performing “punch list” inspections for final acceptance of all sites requiring soil and erosion control measures post construction BMPs, continue reviewing as-built drawings and calculations for permit compliance and offer staff training opportunities on site inspections of BMPs.

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### *Year 3 Milestones*

Adopt updated Storm Water Ordinance to implement changes that incorporate the DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual). Continue performing “punch list” inspections for final acceptance of all sites requiring soil and erosion control measures post construction BMPs and continue reviewing as-built drawings and calculations for permit compliance. Continue to offer employees the ability to attend training on site inspections.

### *Summary of Accomplishments*

The DuPage County Water Quality Best Management Practices Technical Manual (BMP Manual) was previously adopted into Appendix E of the DuPage County Stormwater Management Plan in 2008. No revisions have been made to the BMP Manual since then.

The Village Board took action on the following items:

- ◆ Award of Contracts and Change Orders
  - Pond Shoreline and Wetland Maintenance Contract
  - Award of Contract - Klein Creek & Thunderbird Creek Debris and Obstruction Removal Project – Pessina Tree Service LLC
  - Award of Contract – Klein Creek Flood Plain Structure Demolition Project
  - Award of Consultant Contract for Special Management Area Reviews – Christopher B. Burke Engineering Ltd.
  - Award of Contract – Landscape Maintenance
- ◆ Ordinances & Resolutions
  - Resolution Approving an Intergovernmental Agreement with the County of DuPage and Carol Stream Park District for the design of various public improvements
  - Resolution Approving a Final Plat of Subdivision – McDonalds USA, LLC
  - Resolution Accepting a Grant of Storm Water Management and Conveyance Easement – 795 Kimberly Road
  - Resolution Accepting Public Improvements – Easton Park Townhome Subdivision Phase I

DuPage County Stormwater Committee conducted a public hearing for the revised Stormwater Ordinance on March 6<sup>th</sup>, 2012 and held two public review and comment periods where the public was afforded the opportunity to submit comments on the revised ordinance.

Through the use of an engineering consultant, special management areas (SMAs) and native vegetation was inspected and monitoring plans were reviewed.

The Village investigated and resolved the following issues of storm water management facilities with BMPs:

- ◆ Klein Creek Ponds outlet structure
- ◆ Armstrong/Klein Creek Project
- ◆ 250 S. Gary Avenue



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- ◆ President Manor Townhome Retention Pond
- ◆ American Legion/FedEx Flood Control Facility

The following training sessions were attended:

- ◆ Public Act 96-1416, Clean Construction and Demolition Debris (CCDD)
- ◆ NPDES Inspections...From the Inspector's Perspective
- ◆ MWRDGC – Stormwater Management Projects
- ◆ Identifying and prioritizing Projects to Meet the Aquatic Life Goal of the Clean Water Act
- ◆ Turning Priorities on Selected Stream Segments into Implementation
- ◆ Developing and Putting Projects on the Ground
- ◆ Dam Modification and Segment Naturalization, Churchill Woods
- ◆ Macroinvertebrate Scores as a Function of Riparian Buffer Width
- ◆ DRSCW Integration & Prioritization System (IPS) Tool Workshop
- ◆ West Branch DuPage River Survey Summary and Results
- ◆ Creating Priority Rankings Based on Estimated Restorability for Stream Segments in the DuPage – Salt Creek Watersheds
- ◆ Stormwater Permits Program – Current Issues
- ◆ LPC-633, Uncontaminated Soil Certification. What's New!

The Village Engineer participated in the DRSCW Projects Committee Stream Topographic Survey

### ***POLLUTION PREVENTION/GOOD HOUSEKEEPING***

#### ***F.1: Employee Training Program***

##### ***Goals***

The permit requires employee training on good housekeeping and pollution prevention procedures to prevent and reduce pollutant discharges into storm water from maintenance and operation activities of open spaces, buildings, and storm water systems as well as storage yards, snow disposal, new construction and land disturbances. Training topics can be on regular street sweeping, reduction in the use of pesticides or street salt, or catch basin cleaning practices. The MS4 permit holder can use training materials that are available from the EPA, their State or Tribe, or relevant organizations. Carol Stream staff at Public Works has been trained in areas of good housekeeping and pollution prevention through in-house staff training and the attendance at various seminars and classes.

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The Municipal Engineers Advisory Group meetings will continue to hold discussions and offer training opportunities related to pollution prevention and good housekeeping practices. The Municipal Engineers Advisory Group will have discussions on the most appropriate methods for training employees at municipal facilities in areas of good housekeeping and pollution prevention procedures to prevent and reduce pollutant discharges into storm water from maintenance and operation activities of open spaces, buildings, construction and land disturbances, waste disposal and storm water systems. Topics discussed at the meetings will be shared with the Department of Public Works and Administration.

The pollution prevention good housekeeping training workshop was not completed in the previous permit due to staffing issues and time constraints, but will be completed in Year 1 of the new permit. However, the Department of Public Works and Engineering staff received various training on topics such as street sweeping operations, good housekeeping measures, de-icing and anti-icing programs, storm sewer system design, detention basin design, storm water management funding, bridge inspection, storm water management facility design and proprietary BMPs.

The Municipal Engineers Advisory Group will continue to meet to discuss proper training procedures and implementation on good housekeeping and pollution prevention for appropriate supervisory and/or management employees on: building and open space maintenance, vehicle/fleet maintenance, materials storage and disposal, infrastructure inspection and maintenance, construction and land disturbances and waste disposal. The water quality discussions will aim to assist supervisors and/or managers with providing guidance to their employees with the appropriate training/information based on their needs. The pollution prevention discussions will be shared with Public Works and other maintenance staff for collaborative efforts with the on-going pollution prevention training of County staff.

The Village will provide training sessions for Public Works employees on pre-wetting and anti-icing methods to reduce salt usage and train Public Works and Administration maintenance staff on good housekeeping pollution prevention.

### ***Year 3 Milestones***

Improve communications between Village Departments including Public Works, Administration and Engineering in order to run the good housekeeping pollution prevention program more effectively. Assess other personnel that should attend the training session. Collect records of employee training conducted in-house and encourage them to document any other methods of on-going training within their facility.

### ***Summary of Accomplishments***

The following training sessions were attended:

- ◆ Public Act 96-1416, Clean Construction and Demolition Debris (CCDD)
- ◆ NPDES Inspections...From the Inspector's Perspective
- ◆ MWRDGC – Stormwater Management Projects
- ◆ Identifying and prioritizing Projects to Meet the Aquatic Life Goal of the Clean Water Act
- ◆ Turning Priorities on Selected Stream Segments into Implementation
- ◆ Developing and Putting Projects on the Ground

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- ◆ Macroinvertebrate Scores as a Function of Riparian Buffer Width
- ◆ DRSCW Integration & Prioritization System (IPS) Tool Workshop
- ◆ West Branch DuPage River Survey Summary and Results
- ◆ Creating Priority Rankings Based on Estimated Restorability for Stream Segments in the DuPage – Salt Creek Watersheds
- ◆ Development of Ammonia Mass- Balance Techniques: Web-based Load Duration Curve System
- ◆ Stormwater Permits Program – Current Issues
- ◆ Contribution of PAHs from Coal-Tar Pavement Sealcoat and Other Sources to 40 U.S. Lakes
- ◆ PAHs and Parking Lots
- ◆ Dam Modification and Segment Naturalization, Churchill Woods
- ◆ Chlorides and the River Environment in Northeastern Illinois
- ◆ NPDES and Chlorides: Local Regulations Update
- ◆ Deicing and Sustainability: It's a National Issue
- ◆ Putting New Life Into Old Equipment
- ◆ Liquids: A Success Story
- ◆ Substantial Improvement and substantial Damage: NFIP Requirements During Non-Disaster Times
- ◆ TMDL Development for Area Waterways
- ◆ East Branch DO and DO Feasibility Study
- ◆ LPC-633, Uncontaminated Soil Certification. What's New!

Village Staff is an active member of the DuPage River/Salt Creek Workgroup (DRSCW) which meets regularly and has performed the following educational activities:

- ◆ Speaking engagements and presentations included:
  - Dam Modification and Segment Naturalization – Churchill Woods
  - East Branch DO and DO Feasibility Study
  - PAHs and Parking Lots
  - Identifying and Prioritizing Projects to meet the Aquatic Life Goal of the Clean Water Act
  - Contribution of PAHs from coal-tar pavement sealcoat and other sources to 40 U.S. lakes
  - Chloride Reduction Improvement Program
  - IPS In-Stream Habitat Improvement Reconnaissance Project(s) Update
  - Development of Septic System Map for Targeted Sub-basin Project
  - “What’s going on in our rivers?” The Village of Villa Park’s Environmental Concerns Committee on Oct. 19, 2011
  - “DRSCW’s Chloride Analysis and Reduction Program” – CMAP Offices on Dec. 17, 2011
  - “DRSW’s Chloride Analysis and Reduction Program” – Suburban and Fox Valley Branches of American Public Works Association’s one-day workshop on snow and ice control on Nov. 25, 2011
  - “What’s going on in our rivers?” – League of Women Voters of Elmhurst on Jan. 9, 2012
  - Chloride Usage Education and Reduction Program Public Roads Workshop

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- Chloride Usage Education and Reduction Program Parking Lot and Sidewalk Workshop
- IPS tool development and application – IEPA Springfield Dec. 15, 2011
- Road Salt Symposium – Aquatic Society Road Salt Symposium Minnesota Feb. 2, 2012
- US EPA Integrated Planning Workshop Feb. 17, 2012
- IEPA – Stage 2 TMDL Development of Septic System Map for Targeted Sub-basin project
- IPS in-stream habitat improvement reconnaissance project(s) Update
- Chloride Reduction
- MWRDGC – Stormwater Management Projects
- IPS Tool presentation made at the “Beyond the Basics Workshop Sept. 29, 2011
- Turning Priorities on Selected stream Segments into Implementation Projects
- Developing and Putting Projects on the Ground
- Stormwater Permits Program – Current Issues
- Proposed DRSCW Legislation regarding NPDES Permit Fees
- Literature Review of PAHs sources and sinks – 2011 joint conference of the Illinois Section SWWA and the Illinois Water Environment Association
- Project Identification and Prioritization on a Watershed Scale: Upper DuPage and Salt Creek – Chicago Wilderness Aquatic Task Force – April 25, 2012
- Tiered Aquatic Life Use Classifications in Illinois – Chicago Wilderness Aquatic Task Force – April 25, 2012
- ◆ The web site was updated with new reports and educational materials.
- ◆ A DRSCW Newsletter was produced and sent to all MS4 communities.
- ◆ Village Staff has participated on a DRSCW subcommittee for the Chloride Usage Education & Reduction Study. The Village Engineer chaired this subcommittee in implementing chloride reducing strategies through monitoring and education. Chloride Fact Sheets have continued to be made available to various stakeholders.
- ◆ DRSCW Testified before the Illinois Senate Environment Committee on March 17, 2012 in support of Senate Bill 2081 for proposed legislation regarding NPDES Permit Fees

The following educational notices were distributed:

- ◆ Public Roads Deicing Workshop
- ◆ Parking Lot & Sidewalk Deicing Workshop
- ◆ Flex Seal Utility Sealant
- ◆ Spill Response and Stormwater Management Program Plans

Village of Carol Stream Public Works Department Streets Superintendent, Mike Scaramella was featured in a national publication, Public Works Magazine about the use of de-icing materials and anti-icing methods.

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### *F.2: Inspection & Maintenance Program*

#### *Goals*

The ILR40 NPDES permit requires that an operation and maintenance program be developed and implemented with the goal in mind of preventing or reducing pollutant runoff from municipal operations in the storm sewer system. Public Works has developed an inspection and maintenance program for routine catch basin cleaning and vacuum street sweeping.

The Public Works Department currently inspects and maintains the MS4 systems on an as needed complaint basis, which is tracked through our citizen service request (CSR) database. Public Works has implemented a routine preventive maintenance program for long-term maintenance of catch basins. They also have a street sweeping program. Carol Stream catch basins are cleaned approximately once every ten years. Its roadways are swept approximately nine times per year and the Village owns two vacuum sweepers. Carol Stream maintains approximately one hundred and seven miles of roadway. In addition, Carol Stream has a wastewater treatment plants which treats the Village's sewage and the remnants of sludge from the sewage. The Water Reclamation Center located on Kuhn Road has a capacity of 6.5 MGD (million gallons per day).

Carol Stream has 77 biodiesel and 22 E85 vehicles in its fleet. Carol Stream has incorporated environmental enhancements when reconstructing and improving roadways as evidenced by the wetland/native prairie swale used for detention and conveyance on the Fair Oaks Road Improvement Project.

Carol Stream is currently employing both pre-wetting and anti-icing measures in its annual Snow Removal Plan. Pre-wetting salt and using an ant-icing mixture of salt brine, beet juice and calcium chloride reduces the amount of salt used thereby protecting the land and aquatic plants, animal life, ground water and eventually the surface water. The salt used for deicing is kept in a salt dome and the areas surrounding the salt storage are routinely kept clean.

Engineering has developed and implemented a Wetland & Pond Shoreline Monitoring & Management Program after performing a \$1.5M Pond & Stream Bank Rehabilitation Project on nine wetlands, ponds and stream banks. Stabilizing these areas reduces soil erosion thereby reducing runoff pollution to the streams and creates a more natural habitat for fish, plants and wildlife. The stabilization methods most commonly used are bioengineering practices such as the installation of A-Jacks, coconut fiber rolls, vegetated geogrids, willow stakes, constructed wetlands and native prairie buffers. This Program monitors the condition of the restored and stabilized pond shorelines, mitigated and constructed wetlands, stream banks and native prairie buffers. An annual maintenance plan is formulated every three years where projects are identified, prioritized and scheduled for appropriate management strategies. These management strategies include prescribed burns, selective cutting, mowing, trash removal, herbicide application, weeding, reseeding and replanting. Maintaining these valuable areas by removing invasive vegetation, trash blockages and other debris will allow the waters from the wetlands, ponds and streams to flow less polluted and without obstructions downstream. Stream bank stabilization projects are additionally funded through the Water Quality Improvement Grant Program.

The Village will develop maintenance procedures that incorporate pollution control measures, continue the Catch Basin Cleaning, Inspection and Assessment Program, continue the Street Sweeping Program using vacuum sweepers, continue the Wetland & Pond Shoreline Monitoring & Management Program, continue the Sanitary Sewer Inspection Program using digital televising methods, continue the Sanitary Sewer Manhole Sealing

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Program and discontinue the use of fertilizers containing phosphates on Village maintained right of ways and utilize organic options when fertilization is required.

Carol Stream has a Citizen Service Request (CSR) process where individual can file complaints or seek staff assistance on drainage and other storm water issues. As CSRs are received they are assigned to an employee, investigated and responded to the citizen. Sometimes enforcement action is necessary. The Village also has a database to track the status of the CSR.

The Village will continue handling all complaints and requests through the Village's CSR process, hold public meetings where they can view plans and comment on storm water issues and offer meetings where development or the public can comment on storm water concerns.

### *Year 3 Milestones*

Continue the Catch Basin Cleaning, Inspection and Assessment Program, the Street Sweeping Program, the Wetland & Pond Shoreline Monitoring & Management Program, Sanitary Sewer Inspection Program and Sanitary Sewer Manhole Sealing Program. Discontinue the use of fertilizers containing phosphates and utilize organic options when fertilization is necessary.

### *Summary of Accomplishments*

The following maintenance operations were performed:

- ◆ Completed the fall Klein Creek and Thunderbird Creek Debris and Obstruction Removal Project for \$6,725 removing 102 flow obstructions from 40 locations along 1,146 of stream banks. This was an emergency response project and therefore wasn't previously budgeted.
- ◆ Administered the Flood Plain Structure Buyout Project overseeing the purchase and demolition of the three flood prone structures and the restoration and the lots all in accordance with Federal Emergency Management Agency (FEMA), State and DuPage County regulations. Three of the four flood damages properties were purchased for a total cost of \$541,338.66.
- ◆ Completed the 2010 Pond Evaluation & Maintenance Project in the spring and began the 2011 Project in the fall. Prescribed burns, herbicide treatments, herbaceous mowings and cuttings of native prairie pond shorelines and wetlands were performed at fourteen locations
- ◆ Completed the second year of a three year project to remediate the naturalized retention basins in the Pasquinelli Central Park subdivision at a cost of \$6,500.00.
- ◆ Continued assisting Public Works with the Sanitary Sewer System Evaluation Study. Phase I Flow Monitoring was conducted in the spring 2011.
- ◆ Completed the required IDOT bridge inspections that identified significant deterioration of the Illini Drive bridge.
- ◆ Completed the Tubeway Stormwater Pumping Station Project

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- ◆ Continued flood prevention and disaster preparedness efforts by: providing information, maps and data requested by the Disaster Response Committee; Creating, printing and laminating EOC address maps; Participating in the DuPage County Natural Hazard Mitigation Workgroup meetings.
- ◆ Oversaw 72 volunteers participating in the 2011 Pond & Stream Sweep. They represented 5 businesses and 2 families removing one ton of trash from Klein Creek and 14 ponds covering 9.5 miles of shorelines.
- ◆ Assisted ComEd's tree trimming operations along Klein Creek and Thunderbird Creek. Attended public information meetings.
- ◆ Participated in the update of the DuPage County Storm Water Ordinance through the Municipal Engineers Group and DuPage Mayors & Managers Conference Review Group meetings and provided comments to proposed language changes through tier interactive blog site.
- ◆ Engineering was actively engaged in the DuPage River Salt Creek Workgroup (DRSCW) and Illinois Environmental Protection Agency (IEPA) TMDL meetings serving on the Chloride Reduction and Education Committee and the Project Committee.
- ◆ The Chloride Reduction and Education Committee continued its program of monitoring chloride levels in all three watersheds, conducted two Chloride Reduction Workshops, revised an Application Guidance document for parking lot and sidewalk deicing applications, gathered data on deicing program practices through questionnaires and published an educational Chloride Newsletter.
- ◆ The Project Committee finalized and presented an Integrated Priority System (IPS) Report that identified less costly measures that would have direct meaningful results in meeting the goals of the Clean Water Act rather than just improving the water chemistry of our streams.
- ◆ Carol Stream maintains approximately one hundred and eight miles of roadway. One of our two vacuum sweepers was eliminated due to financial constraints. This resulted in a 50% reduction in the Village's Street Sweeping Program. With the use of contracted street sweeping services the program was restored to 8 street sweepings per year. Last year the Village swept 2,985 curb miles of local roads collecting 17,820 gallons of debris.
- ◆ Performed over 4,453 Public Works man-hours on storm water management and expended an estimated on storm water maintenance and repair expenses.
- ◆ The Village maintains over 7,000 parkway trees that help infiltrate and soak up storm water runoff. Carol Stream has a \$2.25 emergency plan to replace dead or dying trees caused by the emerald ash borer through a Tree Harvesting Agreement. We also previously entered into an Emerald Ash Borer Compliance Agreement. Over 300 diseased or dead parkway trees were removed. Replacements to follow next spring.
- ◆ Performed \$33,170 in emergency tree trimming and removal services related to storm damage.
- ◆ Working with ComEd numerous trees along Klein Creek and Thunderbird Creek were trimmed and dead trees removed to address power outages and flow obstructions.
- ◆ Letters were sent to residents making them aware not to deposit leaves in the street.
- ◆ Carol Stream continued our anti-icing and pre-wetting programs to reduce the Village's salt usage by using 2,760 gallons of brine. The Village also used 3,559 gallons of the non-chloride based "GEOMELT" in its anti-icing operations. Contract Snow Removal Agreements were approved and the Snow Removal Plan was adopted.
- ◆ Required the use of weed pulling and a thick mulch bed in lieu of herbicides in landscaping contracts. Fertilization is not included in the contract and promoted water conservation.
- ◆ Required the use of "green" products in our janitorial contract.

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- ◆ The US Department of Energy presented the results of the Apartment Recycling Pilot Program – “Greenway Recycles” to the Village, DuPage County Department of Economic Development & Planning, and Banner Apartments

Projects undertaken to replace, improve and rehabilitate the Village’s storm water management and related infrastructure include:

- ◆ Updated our 20-Year Capital Improvements Program (CIP).
- ◆ The Village received \$156,347.95 in ARRA IEPA grant funds for the Tubeway Drive Storm Water Lift Station Replacement Project. Replacing this old deteriorated lift station with a more reliable and efficient pump station will greatly improve our ability to manage an effective storm water management system in the Narco and Rothbart Subdivisions. The project was completed and operational in the spring of 2011.
- ◆ Sanitary Sewer System Evaluation Study (SSES) was to identify and establish an update sanitary sewer basin map and to assess the level of inflow and infiltration (I&I in the sanitary sewer system. Phase I Flow Monitoring was conducted in the spring of 2011. The Phase I Flow Monitoring was completed at a cost of \$50,000.
- ◆ Klein Creek Flood Plain Structure Phase I Buyout Project – Three of the four flood damages properties were purchased for a total cost of \$541,338.66. The demolition phase of the project was completed in December of 2012 for \$20,570, combined with \$2,348.24 in utility disconnections. Final restoration is anticipated to be completed by the summer of 2012.
- ◆ The Village received a \$2,000 Trees Forever Grant to install native plantings along the shorelines of the NW corner of Gary Avenue/Lies Road Retention Pond.
- ◆ Performed wetland and pond shoreline monitoring and management on 14 Village owned ponds, wetlands and stream banks. Contract cost was \$24,618.
- ◆ Completed the second year of a three year project to remediate the naturalized retention basins in the Pasquinelli Central Park subdivision at a cost of \$5,597.87.
- ◆ A comprehensive Water Reclamation Center (WRC) Condition Assessment was performed that resulted in the identification of nine CIP projects in the WRC Facility Plan that was developed. The following projects were completed:
  - Replaced the Sodium Hypochlorite Delivery System at the WRC Facility
  - Replacement of the SCADA System
  - Sludge Aeration Energy Efficiency Project
  - Replacement of Sand Filter #4

The Village investigated several storm water management facilities including:

- ◆ Brookstone Detention Pond
- ◆ Dogwood Park Overflow
- ◆ Community Park Drainage Outlet
- ◆ Mona Kea Commercial Development
- ◆ Home Depot and Chase Bank Overland Flow Route and Stream Discharge
- ◆ Central Park Pond Shoreline Remediation
- ◆ Klein Creek Flow Obstructions



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- ◆ Thunderbird Creek Flow Obstructions
- ◆ Armstrong Park Lift Station

The following Geographic Information System (GIS) Implementation Project tasks were completed:

- ◆ Updated all existing maps with the latest DuPage County GIS layers, feature classes and geodatabases including assessment parcel data.
- ◆ Created and published the following Capital Improvement Program maps:
  - 2011 CIP Map
  - Contour Map
  - Flood Plain Reference Map
  - Klein Creek Flood Plain Structure Demolition Project Map
  - Creek Flow Obstruction Maintenance Project Map
- ◆ Created and published the following maps:
  - Pond & Stream Sweep Maps
  - Public Works Storm Sewer Map
  - Public Works Sanitary Sewer Map
  - Public Works Basin 39 Sanitary Sewer Map
  - Street Sweeping Curblin Map
- ◆ The Village collected 1,997 utility (water, sanitary sewer and storm sewer) coordinates in 2011 utilizing GPS technologies. In total the Village has collected 10,349 GPS coordinates of utility structures over the last several years. This accounts for over 95% of all storm sewer structures, both public and private, in the Village.
- ◆ The Storm Sewer Outfall Map was updated.
- ◆ Updated the Stormwater Management Facility Map polygons

Village Staff participated with the DuPage River/Salt Creek Workgroup (DRSCW) on the following inspection and maintenance related activities:

- ◆ Educational opportunities included:
  - Public Act 96-1416, Clean Construction and Demolition Debris (CCDD)
  - NPDES Inspections...From the Inspector's Perspective
  - MWRDGC – Stormwater Management Projects
  - Identifying and prioritizing Projects to Meet the Aquatic Life Goal of the Clean Water Act
  - Turning Priorities on Selected Stream Segments into Implementation
  - Developing and Putting Projects on the Ground
  - Macroinvertebrate Scores as a Function of Riparian Buffer Width
  - DRSCW Integration & Prioritization System (IPS) Tool Workshop
  - West Branch DuPage River Survey Summary and Results
  - Creating Priority Rankings Based on Estimated Restorability for Stream Segments in the DuPage – Salt Creek Watersheds

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- Development of Ammonia Mass- Balance Techniques: Web-based Load Duration Curve System
- Stormwater Permits Program – Current Issues
- Contribution of PAHs from Coal-Tar Pavement Sealcoat and Other Sources to 40 U.S. Lakes
- PAHs and Parking Lots
- Dam Modification and Segment Naturalization, Churchill Woods
- Chlorides and the River Environment in Northeastern Illinois
- NPDES and Chlorides: Local Regulations Update
- Deicing and Sustainability: It's a National Issue
- Putting New Life Into Old Equipment
- Liquids: A Success Story
- Substantial Improvement and substantial Damage: NFIP Requirements During Non-Disaster Times
- TMDL Development for Area Waterways
- East Branch DO and DO Feasibility Study
- LPC-633, Uncontaminated Soil Certification. What's New!
- ◆ Monitoring efforts included:
  - Ambient chloride monitoring
  - Dissolved oxygen monitoring
  - Bioassessment sampling
  - Data analysis
  - Assessment reports
- ◆ While serving as Chair on the DRSCW Chloride Reduction Committee we accomplished the following tasks:
  - Provided educational opportunities which included: Chloride Usage Education and Reduction Program Report, Public Agency Chloride Reduction Workshop, Parking Lot and Sidewalk Workshop.
  - Conducted a survey of public agencies to monitor changes in pre-wetting, de-icing, anti-icing, storage and non-chloride alternative practices.
  - Prepared a fact sheet summarizing alternative de-icing products
  - Updated and published a Parking Lot Salt Application Rate Guidance to assist and educate private contractors on how to reduce salt usage, save money and protect the environment.
  - The web site was updated with new reports and educational materials.
  - Chloride Fact Sheets have continued to be made available to various stakeholders.
  - A DRSCW Newsletter was produced and sent to all MS4 communities which highlighted several chloride reduction efforts.
  - Continued ambient chloride monitoring.
  - Performed data analysis and assessments.
  - Prepared and published an annual report.
- ◆ The Village Engineer was a participant on the DRSCW Projects Committee. This committee developed an Integrated Priority System (IPS) that will be used to identify, prioritize and recommend various water quality improvement projects by objective criteria.

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- ◆ Participated in the DRSCW Projects Committee Stream Topographic Survey
- ◆ Prepared a brochure on coal tar sealants as a source of polycyclic aromatic hydrocarbons (PAHs) aimed at homeowners.
- ◆ Presented proposed legislation to the Illinois Senate Environment Committee to fund Stormwater quality improvement projects through IEPA NPDES fees.

### ***F.4: Municipal Operations & Waste Disposal***

#### ***Goals***

The ILR40 permit requires that procedures be developed for properly disposing of waste removed from the separate storm sewers and areas such as dredge spoil, accumulated sediments, floatables, and other debris. Public Works properly disposes all wastes collected from storm sewers, streets, ponds and streams. In addition, Carol Stream has a streets and vehicle maintenance section that controls the amount of pollutants, which runoff from the construction of roadways, storage yards and deicing practices as well as runoff produced by vehicle washing and repairs. Carol Stream regularly recycles used oil, oil filters, batteries and tires and has the remains of the dead animals found on Village roadways properly disposed.

Carol Stream advertises different yearly hazardous waste collection events held by DuPage County and IEPA to collect items such as cleaning solvents, oil based paints, fertilizers/pesticides, car batteries, automotive fluids, asbestos, and pool chemicals for proper waste disposal. We distribute the County's Recycling Resource Guide, and provide information about other resources and companies that recycle or take hazardous waste.

#### ***Year 3 Milestones***

Continue the recycling of used oil, oil filters, batteries and tires. Carol Stream will submit record keeping of pollution prevention and good housekeeping activities for annual reporting.

#### ***Summary of Accomplishments***

The following accomplishments were achieved:

- ◆ All waste from the Vactor truck and vacuum sweepers is sent to approved landfill sites.
- ◆ Carol Stream's Adopt-A-Highway Program utilized numerous volunteers from 6 organizations. They performed 19 cleanings removing trash from 22 miles of roadways that could've otherwise entered our streams and ponds.
- ◆ Ran five aerators that provided oxygen to four different ponds.
- ◆ Performed over 4,453 Public Works man-hours on storm water management.
- ◆ The Village stores salt in a salt dome and the areas surrounding salt storage are routinely kept clean.
- ◆ Reported six sanitary sewer overflows (SSOs) or basement backups, all six being the home owner's responsibility.

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- ◆ Carol Stream utilizes 37 biodiesel and 30 E85 vehicles in its fleet.
- ◆ The Village recycled the following quantities of waste:
  - Paper & Plastic           40 Cubic Yards
  - Scrap Metal           21,230 Pounds
  - Tires                   67 Tires
  - Electric Motors       2,269 Pounds
  - Vehicle Batteries     51 Batteries
- ◆ Carol Stream has a wastewater treatment plants which treats the Village’s sewage and the remnants of sludge from the sewage. The Water Reclamation Center located on Kuhn Road has a capacity of 6.5 MGD (million gallons per day) and treated 2.07 Billion gallons last year.

The Sanitary Sewer System Flow Monitoring Phase I Project was completed allowing staff to identify and target prioritization areas for further inflow and infiltration (I/I) studies. The first phase of the I/I studies were initiated in Basin 39. The results of the I/I study will help us identify and prioritize remediation projects. The ultimate goal is to reduce the I/I thereby reducing sanitary sewer overflows and incidences of noncompliance (ION) at the Water Reclamation Center (WRC).

The Village promotes local and regional recycling through handouts, press releases, Environmental Portal website, Correspondent, Happenings, electronic bulletin board, DuPage County’s Recycling Resource Guide, marquee sign, cable access channel, etc. The Village conducted an Earth Day Community Recycling Event on Saturday, May 7, 2011 where 27,000 pounds of electronics were collected, all for recycling.

The Village’s Rx Box Program collected 1,132 lbs. of drugs and medical supplies.

A total of 3,032 lbs. of holiday lights were collected for recycling yielding 303 lbs. of industry-grade copper. The entire proceeds were donated to the Village’s Christmas Sharing Program.

The Village held its annual Pond & Stream Sweep on Saturday, May 21st. 72 volunteer, 5 businesses and 2 families removed 2,000 lbs. of trash and debris from 9.5 miles of shorelines along 14 ponds and stream sections. At this event storm water educational material is provided to all the volunteers (Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help).

***F.5: Flood Management/Assess Guidelines***

***Stormwater & Flood Plain Ordinance Updates***

***Goals***

The DuPage County Countywide Stormwater and Flood Plain Ordinance (Appendix F) was adopted in 1991 and became effective in February of 1992 as part of the DuPage County Storm Water Management Plan that affects all development within the County of DuPage. This is the fundamental regulatory program that requires all development within the County of DuPage to not "Unreasonably or unnecessarily degrade surface or ground water quality." Appendix F contains provisions for flood management and assessment guidelines.

The Storm Water Management Plan: Restricts future development in the flood plain to facilities that will not adversely affect flood damage potential or wetland environments. Within the floodway, development will be prohibited unless it involves facilities that enhance flood protection or pollution control; Requires preservation of wetlands to maintain their natural flood control and environmental benefits; Incorporates water quality and habitat protection measures in all storm water management activities within DuPage County; and Requires regular, planned maintenance of storm water management facilities.

The intent of Appendix F is to reduce current and future flood damages by requiring: no permitting of any development that would negatively impact the hydrology or hydraulics of either the flood plain or the floodway; any proposed structure to be at least one foot above the adjacent Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Base Flood Elevation (BFE); any development or redevelopment to provide for storm water detention depending on size and use as described in Appendix F; and no permitting of any development or redevelopment that will increase flood elevations by compensating at the volume of 1.5 to 1 to offset the loss of existing storage, increase flood velocities, or decrease flood conveyance capacity to upstream or downstream properties.

The Village will continue to adopt any revisions to the DuPage County Countywide Storm Water and Flood Plain Ordinance.

***Year 3 Milestones***

Adopt any revisions to the DuPage County Countywide Storm Water and Flood Plain Ordinance.

***Summary of Accomplishments***

Attended the Municipal Engineers Advisory Group meetings and provided public comment and technical support on several storm water management issues including:

- ◆ Modeling requirements for minor excavations in the floodway.
- ◆ Flood response efforts.

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- ◆ Update of the DuPage County Countywide Stormwater Management and Flood Plain Ordinance discussing numerous topics including:
  - Impervious Area as a Determination for Detention
  - Water Quality Control Volume
  - Substantial Damage/Improvement Determinations
  - General Certifications
    - Buffer Mitigation for Minor Impacts
    - Accessory Structures in the Flood Plain
    - Stream Bank Stabilization
    - Boat Lifts & Piers
    - Sidewalks, Trails, Driveways & Patios
    - Sign Posts, Fencing and Guardrails
    - Top Soil and Sand Restoration
    - Utilities
    - Boardwalks
    - Decks
    - Storm Sewer Outfalls and Outlet Channels
    - Recreational Facilities
    - Demolition of Single Family Homes, Garages and Sheds
    - Rehabilitative Maintenance of Roadways, Bridges, Culverts & Stormsewers
  - Flood Plain Compensatory Storage
  - Wetland Mitigation
  - Modeling
  - Sediment & Erosion Control
- ◆ NPDES Annual Report

Provided comments on DuPage County's website with a blog for the update of the DuPage County Countywide Stormwater and Flood Plain Ordinance and submitted final public review comments on behalf of the Village. The Village Engineer was also an active participant on the DuPage Mayors & Managers Conference Review Group of the Ordinance update.

DuPage County Stormwater Committee conducted a public hearing for the revised Stormwater Ordinance on March 6<sup>th</sup>, 2012 and held two public review and comment periods where the public was afforded the opportunity to submit comments on the revised ordinance.

The following training sessions were attended:

- ◆ MWRDGC – Stormwater Management Projects
- ◆ Stormwater Permits Program – Current Issues
- ◆ Substantial Improvement and substantial Damage: NFIP Requirements During Non-Disaster Times

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After the July 2010 flood Engineering was integral in improving our response to the disaster. Some initiatives taken in 2011 include:

- ◆ Participated in the Disaster Response Committee meetings.
- ◆ 12,000 feet of Klein Creek and Thunderbird Creek were inventoried for future removal of large flow obstructions.
- ◆ Obtained \$305,000 in Department of Commerce and Economic Opportunity (DCEO) Community Development Block Grant (CDBG) Ike Disaster Recovery Funding for the Klein Creek Flood Plain Structure Phase II Buyout Project.
- ◆ Participated in DuPage County's Klein Creek Reservoir Flood Control Project monthly meetings. Provided information and input on the planning, design, scheduling and construction of the Project. Entered into an intergovernmental agreement between the County of DuPage, Carol Stream Park District and the Village of Carol Stream for the design of various public improvements related to the Project.
- ◆ Completed the fall Klein Creek and Thunderbird Creek Debris and Obstruction Removal Project for \$6,725 removing 102 flow obstructions from 40 locations along 1,146 of stream banks.
- ◆ Identified and budget several watershed studies that will analyze the flooding in three areas of the Village and provide recommended solutions.
- ◆ Attended DuPage County's Office of Homeland Security's workgroup meeting for the update of the Natural Hazard Mitigation Plan
- ◆ Provided information, maps and data requested by the Disaster Response Committee
- ◆ Created, printed and laminated EOC address maps
- ◆ Obtained Storm Ready Community Certification

Created and published the following GIS maps:

- ◆ Contour Map
- ◆ Flood Plain Reference Map
- ◆ Klein Creek Flood Plain Structure Demolition Project Map
- ◆ Creek Flow Obstruction Maintenance Project Map
- ◆ Updated Stormwater Management Facility Polygons

Updated the Village's "Environmental Web Portal" and "Storm Water Management" web page that offers a wealth of information on the Village's efforts toward addressing storm water quality issues and how residents can make an impact. Environmental Web Portal and Storm Water Management web page updates include the following:

- ◆ Updated Hyperlinks on Environmental Web Portal
  - FEMA Flood Plain Management Regulations
- ◆ Storm Water Management Webpage Additions
  - Disaster Assistance
  - Storm Water Management Regulations
- ◆ Provided review comments on new web site

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### ***FIRM Updates***

#### ***Goals***

DuPage County, a Cooperating Technical Partner with FEMA, updated the Flood Insurance Rate Maps (FIRM) on a countywide basis. These maps became effective on December 16, 2004 and are known as the DFIRM. The DFIRM maps will continue to be updated as the County completes floodplain mapping for other watersheds in DuPage County using its HSPF/FEQ/PVSTATS methodology. As DuPage County and FEMA corrects, updates and adopts the DFIRM maps Carol Stream will begin utilizing them.

#### ***Year 3 Milestones***

The Village will begin utilizing the corrected and updated DFIRM maps once they have been approved and adopted by FEMA and DuPage County.

#### ***Summary of Accomplishments***

FEMA has not approved or updated the DFIRM maps requiring corrections nor have they made them available to the public.

One Village employee attended a presentation on DuPage County's paneling change of their Regulatory Flood Map.



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***See DuPage County's Annual Report and the DuPage River Salt Creek Workgroup's web site for the data that was collected and analyzed, including monitoring data.***

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***As stated in our NOI the following are activities that the Village of Carol Stream will undertake during year three of the second permit cycle:***

***PUBLIC EDUCATION & OUTREACH***

***A.1: Distribution of Paper Material***

Continue with the publication and distribution of available paper materials.

***A.2: Speaking Engagement***

Continue to provide homeowners associations and other groups with information about storm water issues, values, procedures, maintenance efforts and solutions to better educate them and equip them to play a role. Encourage Staff to seek opportunities and participation in speaking engagements.

***A.3: Public Service Announcement***

Continue with the preparation and release of storm water quality related articles to local news papers.

***A.4: Community Event***

Continue conducting the yearly Pond & Stream Sweep and provide informational material on storm water quality related topics to all volunteers.

***A.6: Other Public Education***

Continue updating the Village's environmental web page as new and better information becomes available.

**PUBLIC INFORMATION/INVOLVEMENT**

***B.3: Stakeholder Meeting***

Continue participation in the DRSCW, Municipal Engineers Advisory Group and the Storm Water Quality Stakeholders' Committee meetings. Continue financial support of the DRSCW.

***B.4: Public Hearing***

Continue to hold public hearings or meetings for storm water ordinance changes, variances, subdivisions, grant of easements, annexations, preliminary plans, special use permits, planned unit developments and major Village projects.

***B.6: Program Coordination***

Review the Storm Water Management Program and make the appropriate changes where necessary.

***B.7: Other Public Involvement***

Continue to conduct both our annual Pond & Stream Sweep and our Adopt-A-Highway Program events. Maintain existing illegal dumping signs.

**ILLICIT DISCHARGE DETECTION & ELIMINATION**

***C.1: Storm Sewer Map Preparation***

Carol Stream will continue to update both its storm sewer outfall and storm sewer system maps using GPS and GIS technology. We will provide revised maps to DuPage County in the requested format.

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### ***C.2: Regulatory Control Program***

Participate on the Municipal Engineers Advisory Group in the preparation, review or revision of regulatory processes and procedures. Communicate and exchange with DuPage County the required information for an effective program.

### ***C.5: Illicit Source Removal Procedures***

Once DuPage County notifies the Village of the source of an illicit discharge, the protocols set forth in the technical guidance chapter will be followed to have that illicit discharge removed. Carol Stream will provide DuPage County with the status of each illicit discharge that is in the process of being removed.

### ***C.6: Program Evaluation & Assessment***

Continue with the annual evaluation and assessment processes developed in the first year.

## ***CONSTRUCTION SITE RUNOFF CONTROL***

### ***D.1: Regulatory Control Program***

Carol Stream will continue to adopt the Storm Water Ordinance as it is updated by DuPage County to keep up with local and national regulations while implementing appropriate best management practices to lower quantities of pollutants from ending up in out waterways and drinking water. Village personnel will attend educational and training sessions as offered by DuPage County to help maintain a more consistent and effective application of the regulations throughout the county.

### ***D.2: Erosion & Sediment Control BMPs***

Continue to educate staff on the evolving regulations by attending training programs and seminars.

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### ***D.4: Site Plan & Review Procedures***

Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

### ***D.5: Public Information Handling Procedures***

Continue to field public complaints and requests utilizing the Village's CSR process. Conduct open public meetings where the public can comment on storm water issues. Continue to offer meetings for developers as well as the public to obtain information and comment on storm water concerns.

### ***D.6: Site Inspection/Enforcement Procedures***

Ensure staff has proper qualifications to conduct site inspections with respect to sediment and erosion control. Continue to offer employees the ability to attend training on site inspections of storm water management facilities.

## ***POST CONSTRUCTION RUNOFF CONTROL***

### ***E.2: Regulatory Control Program***

Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

### ***E.3: Long Term O&M Procedures***

Continue to enforce the Storm Water Ordinance and accept storm water management and conveyance easements and wetland conservation easements.

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### ***E.4: Pre-construction Review of BMP Designs***

Perform plan reviews in conformance with the new BMP Manual requirements. Carol Stream will offer staff the ability to attend training seminars or workshops where they will be able to review and learn new methods of their evolving fields.

### ***E.5: Site Inspections During Construction***

Continue performing site inspections on all developments that have been issued a storm water permit for soil and erosion control and post construction BMPs. Continue to offer employees the ability to attend training on site inspections of BMPs.

### ***E.6: Post Construction Inspections***

Continue performing “punch list” inspections for final acceptance of all sites requiring soil and erosion control measures post construction BMPs. Continue reviewing as-built drawings and calculations for permit compliance. Continue to offer employees the ability to attend training on site inspections.

## ***POLLUTION PREVENTION/GOOD HOUSEKEEPING***

### ***F.1: Employee Training Program***

Attend a second pollution prevention employee training session, targeting those that were unable able to attend the previous session and new hires. Viewing a power point presentation of the training session is an option to attending the seminar. Record attendees and ask them to complete a session evaluation as well as submit suggestions for program improvements. Collect records of employee training conducted in-house and encourage them to document any other methods of on-going training within their facility.

### ***F.2: Inspection & Maintenance Program***

Continue the Catch Basin Cleaning, Inspection and Assessment Program, the Street Sweeping Program, the Wetland & Pond Shoreline Monitoring & Management Program, Sanitary Sewer Inspection Program and Sanitary Sewer Manhole Sealing Program. Discontinue the use of fertilizers containing phosphates and utilize organic options when fertilization is necessary.

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***F.4: Municipal Operations & Waste Disposal***

Continue the recycling of used oil, oil filters, batteries and tires. Carol Stream will submit record keeping of pollution prevention and good housekeeping activities for annual reporting.

***F.5: Flood Management/Assess Guidelines  
Stormwater & Flood Plain Ordinance Updates***

Adopt any revisions to the DuPage County Countywide Storm Water and Flood Plain Ordinance.

***FIRM Updates***

The Village will begin utilizing the corrected and updated DFIRM maps once they have been approved and adopted by FEMA and DuPage County.

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***The Village of Carol Stream is relying on DuPage County to satisfy our permit obligations. See DuPage County’s Annual Facility Inspection Report.***



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**CONSTRUCTION PROJECT LIST**

None of the following construction projects required an IEPA Construction ILR10 permit. However, some required a DuPage County Stormwater management permit and all required soil erosion and sedimentation control measures.

<b>Location</b>	<b>Start Date Est. Comp. Date Description</b>
Southwest Water Main Construction Project	2/2012 9/2012 Construction of new water main along Fair Oaks Road, Trieste Land and St. Charles Road
Tubeway Stormwater Lift Station Replacement Project	10/2010 10/2011 Total replacement of the storm sewer lift station, landscaping and site restoration.
Klein Creek Flood Plain Structure Buyout Project	12/2010 9/2012 Purchase and demolish four repetitive flood damaged structures and Restore site to permanent open space.