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

*Year 11 of NPDES Permit No. ILR400308*

*Village of Carol Stream, 2<sup>nd</sup> Notice of Intent (Year 5)*

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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 newsletter articles. As new material is developed the additional material that is prepared by other groups and agencies will be distributed.

##### ***Year 5 Milestones***

Continue with the publication and distribution of available paper materials.

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

Village Staff distributed and made the following informational material available:

- ◆ *6<sup>th</sup> Annual Earth Day Recycling Collection Event*
- ◆ *15<sup>th</sup> Annual Pond & Stream Sweep – Volunteers Needed*
- ◆ *2013 Clean Rivers, Clean Lake Conference*
- ◆ *A Citizen's Guide to Monitoring Stormwater*

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- ◆ *Adopt-a-Stream Program – DuPage County Stormwater Management Division*
- ◆ *Backyards for Wildlife – The Conservation Foundation*
- ◆ *Book Rescue*
- ◆ *Carol Stream History Event – Bring your photos, mementos and memories to help us create a complete history of Carol Stream*
- ◆ *Christmas Tree Pick Up Service*
- ◆ *ComEd – Incentives, tools and tips to help you save money, energy and the environment*
- ◆ *ComEd’s Smart Ideas for you Home – You’ve got the power to save. We’ve got the ideas to help.*
- ◆ *Dump no waste! Drains to river!*
- ◆ *DuPage County - A Citizen’s Guide to Monitoring Stormwater – Illicit Discharge Detection & Elimination*
- ◆ *DuPage County Recycling Guide*
- ◆ *DuPage County Wetlands and Streams – DuPage County Department of Economic Development & Planning*
- ◆ *DuPage Water Commission – Water Quiz*
- ◆ *DuPage Water Commission – Outdoor Water Use*
- ◆ *eCycle – Protect your environment*
- ◆ *Earth Day Festival & Farmers Market*
- ◆ *Electric Aggregation Program Helps Residents Save – ComEd and Illinois Commerce Commission*
- ◆ *Electronics Recycling Program – DuPage County*
- ◆ *Fall Leaf Pick-Up Scheduled for the November 18<sup>th</sup> Collection Week*
- ◆ *Falling into Winter – DuPage County Stormwater Management*
- ◆ *FEMA Disaster Assistance – Flood Damage from the April 17-18 storm event*
- ◆ *Free Document Shredding*
- ◆ *Free Holiday Tree & Greenery Collection Continues through Friday, January 17<sup>th</sup>*
- ◆ *Free Leaf Pick Up Week – 11/18/13*
- ◆ *Free Mulch*
- ◆ *Founding Fathers Gardening Seminar*
- ◆ *Giving Old Bikes New Homes*
- ◆ *Great Western Trail Clean Up – April 27*
- ◆ *Holiday Lights Recycling Program Begins Monday, November 18<sup>th</sup>*
- ◆ *Information on our Pond Shoreline educational signs to the Park District. They are looking to install some interpretive signs about the “earth friendly features” (permeable pavement and bioswales) at the Recreation Center.*
- ◆ *IPS outreach materials*
- ◆ *Invasive Species – The Conservation Foundation*
- ◆ *Last week to use Fall Leaf Stickers and Dispose of Other Yard Wastes*
- ◆ *Leaf collection stickers available*
- ◆ *Living near a detention pond?*

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- ◆ *Living Along A Shoreline Or Stream Bank – How The Village Maintains These Valuable Areas & What You Can Do To Help – Village of Carol Stream*
- ◆ *Living with Wildlife in DuPage County – Forest Preserve District of DuPage County*
- ◆ *Maintenance and Management of Naturalized Areas – DuPage County Department of Economic Development & Planning*
- ◆ *“Managing Your Community’s Stormwater”*
- ◆ *NFIP FEMA’s 50% Rule – Substantial Improvement and Substantial Damage*
- ◆ *Pond Sweep “Thank You”*
- ◆ *Recycling Event –Electronic, Books, Athletic Shoes, Working Bikes*
- ◆ *Recycle Your Holiday Cooking Oil on Saturday, November 30<sup>th</sup> at the Village Hall*
- ◆ *Regional Household Hazardous Waste Facility – City of Naperville*
- ◆ *Rx Box Disposing Meds Safely – DuPage County Health Department*
- ◆ *Seasonal recycling opportunities accompany holidays in Carol Stream*
- ◆ *Storm Drain Stenciling – The Conservation Foundation*
- ◆ *SWM Holds Stakeholder Group Meeting*
- ◆ *Tree planting underway in Carol Stream*
- ◆ *Updating DuPage’s Stormwater and Flood Plain Ordinance – DuPage County*
- ◆ *Yard Waste Must be Properly Disposed of*
- ◆ *Yard Waste Pick Up Resumes*
- ◆ *Village of Carol Stream Earth Day Recycling Event*
- ◆ *Water Conservation Pledge – I pledge to preserve every drop!*
- ◆ *Wayne Township Hosts Recycling “Reuse and Recycle Event”*
- ◆ *West Chicago Prairie – Forest Preserve District of DuPage County*
- ◆ *West Branch of DuPage River/Fair Oaks Road Multi-Use Trail Project, Open House, 10/22/2013*
- ◆ *Winfield Creek Stakeholder Group Meeting on June 19.*
- ◆ *Winter Deicing Workshop for Public Roads*
- ◆ *Winter Deicing Workshop for Parking Lots & Sidewalks*
- ◆ *What to do After a Flood*
- ◆ *Where does the rain go?*

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

- ◆ *5th Annual Shape of the Village, 09/25/2013, (Article Date 09/13/2013)*
- ◆ *6<sup>th</sup> Annual Earth Day Recycling Collection Event on 04/20/2013, (Article Dates 04/01/2013, 04/12/2013, 04/01/2013)*
- ◆ *Annual Earth Day Trail Cleanup – The Illinois Prairie Path on 04/28/2013, (Article Date 04/01/2013)*
- ◆ *Annual Great Western Trails and Illinois Prairie Path Cleanup on 04/27/2013, (Article Date 04/12/2013)*
- ◆ *Ash Borer – Village Steps Up Response to Ash Borer,(Article Date 07/05/2013)*
- ◆ *Back to School Safety (Article Date 08/02/2013)*

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- ◆ *Backyard Composting*
- ◆ *Blood Drive, 08/07/2013, (Article Date 07/20/2013)*
- ◆ *Book Rescue through SCARE, (Article Dates 04/12/2013, 04/01/2013)*
- ◆ *Building Permits are Required (Article Date 05/01/2013)*
- ◆ *Carnival Schedule 06/27-30, (Article Date 06/07/2013)*
- ◆ *CERT – Community Emergency Response Training, Oct-Dec 2013*
- ◆ *Clean up the World Weekend Event on 09/20/2013, (Article Date 09/13/2013)*
- ◆ *Community Emergency Response Training, 10/3 thru 12/12/2013, (Article Date 09/13/2013, 08/30/2013,)*
- ◆ *Composting Workshop on 09/05/2013 through SCARE, (Article Date 08/30/2013)*
- ◆ *Concerts in the Park, Free (Article Date 08/02/2013, 07/20/2013, 07/05/2013, 06/07/2013, 05/23/2013, )*
- ◆ *Coyotes in Springtime, (Article Date 05/23/2013)*
- ◆ *Discounted Leaf Stickers*
- ◆ *Disposal of Electronics at Curbside is Strictly Prohibited, (Article Date 04/12/2013)*
- ◆ *District 93 New Student Registration, 08/06/2013, (Article Date 07/20/2013) Earth Day Festival & Farmers Market on 04/20/2013, (Article Date 04/12/2013, 04/01/2013)*
- ◆ *DuPage County Offers Student Scholarship, (Article Date 04/01/2013)*
- ◆ *Document Shred for Business*
- ◆ *Earth Day Festival & Farmers Market*
- ◆ *Earth Day Recycling Event*
- ◆ *Electric Aggregation with First Energy Solutions, (Article Date 07/20/2013)*
- ◆ *Electronics Placed @ Curb Side is Illegal (Article Date 04/12/2013),*
- ◆ *Electronic Recycling Event*
- ◆ *Emerald Ash Borer – Village steps up response to Ash Borer, (Article date 07/05/2013)*
- ◆ *Fall Leaf Sticker 6 Week Period 10/14 through 11/30*
- ◆ *FEMA 50% Rule- Homes in a Flood Plain are subject to 50% Rule, (Article Date 08/02/2013)*
- ◆ *FEMA Disaster Assistance – Flood Damage from the April 17-18 storm event*
- ◆ *FEMA – Smart Phone App, (Article Date 07/20/2013, 09/13/2013)*
- ◆ *FEMA – Apply for FEMA Disaster Assistance, (Article Date 05/15/2013)*
- ◆ *Flooding*
  - *Base Flood Elevation, (Article date 08/02/2013)*
  - *Flood Elevation – Base flood elevation, (Article Date 08/02/2013)*
  - *Substantial Improvement and Substantial Damage, (Article Date 08/02/2013)*
  - *What could flooding cost me?, (Article Date 08/02/2013)*
  - *What to do after a Flood, (Article Date 05/01/2013)*
- ◆ *Free Christmas Tree and Wreath Pick Up Begins January 2, 2014 thru January 17<sup>th</sup>, 2014*
- ◆ *Free Document Shredding, Village of Carol Stream, (Article Date 10/11/2013)*

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- ◆ *Free Leaf Pick-up is November 18<sup>th</sup> – 22<sup>nd</sup> Collection Week (Article Date 10/25/2013)*
- ◆ *Free Mulch at the Water Reclamation Center, (Article Dates 07/05/2013, 04/12/2013, 04/12/2013)*
- ◆ *Gary Avenue RR Crossing to Close for Repairs June10, (Article Date 05/23/2013)*
- ◆ *Giving Old Bikes New Homes, (Article Dates 04/12/2013, 04/01/2013)*
- ◆ *Great Western Trail Clean Up on 04/27/2013,(Article Date 04/12/2013)*
- ◆ *History gathering event 09/30/2013, (Article Date 09/13/2013, 08/30/2013, 09/16/2013)*
- ◆ *Holiday Lights Recycling*
- ◆ *Homes in a Floodplain Subject to 50% Rule*
- ◆ *Independence Day Parade, Concert and Fireworks*
- ◆ *Landscape Waste Transfer Facility Proposal, (Article Date 07/20/2013)*
- ◆ *Leaf Stickers – Discounted Leaf Stickers and Use Period. (Article Date 10/11/2013, 10/25/2013)*
- ◆ *Local Road Improvements Projects, 52 segments, \$3.325 million, (Article Date 05/15/2013)*
- ◆ *Make your own rain barrel workshop on 04/21/2013, (Article Date 04/01/2013)*
- ◆ *National Nite Out 08/06/2013 (Article Date 08/02/2013)*
- ◆ *Our Founding Gardners Seminar*
- ◆ *Outdoor Fireplace/Pit Regulations in Force, (Article Date 06/07/2013)*
- ◆ *Outdoor Warning Sirens Information (Article Date 06/07/2013)*
- ◆ *Paper Shredding Event for DuPage Businesses, 10/11/2013(Article Date 08/30/2013)*
- ◆ *Paper Shredding Event for residents and business' at the Annual Recycling Event – 9/28/2013,(Article Date 08/30/13)*
- ◆ *Paint-Carpet Recycling & Doc. Shred Event*
- ◆ *Parkway Tree Maintenance Update (Article Date 10/25/2013)*
- ◆ *Pond Sweep 15<sup>th</sup> , Volunteers Needed on 05/18/2013, , (Article Date 05/01/2013, 04/01/2013)*
- ◆ *Pond Sweep “Thank You”, (Article Date 06/07/2013)*
- ◆ *Rain Barrel Purchase Program*
- ◆ *Raking Leaves into Curb/Street is Prohibited, (Article Date 10/11/2013, 10/25/2013)*
- ◆ *Recycling Event on 04/20/2013, Village of Carol Stream –Electronic, Books, Athletic Shoes, Working Bikes, Document Shredding , (Article Dates 04/12/2013, 04/01/2013)*
- ◆ *Recycling Event on 06/08/2013, Wayne Township Reuse and Recycle Event, (Article Date 06/07/2013, 05/23/2013, 05/15/2013)*
- ◆ *Recycling Event on 09/28/2013, Village of Hanover Park , (Article Date 08/30/2013, 09/13/2013)*
- ◆ *Recycling Event – List of acceptable items at the Annual Recycling Event – 9/28/2013, (Article Date 08/30/2013, )*
- ◆ *Recycling Event on 10/11/2013, Village of Carol Stream, Document Shredding, (Article Date 10/30/2013, 09/13/2013)*
- ◆ *Recycling Event on 10/15/2013, DuPage County Department of Economic Development & Planning – Paint & Carpet Recycling & Document Shredding,(Article Date 10/11/2013).*
- ◆ *Recycling Events in Illinois – Electronics and Document Shredding Events, List of Dates from April to July and Towns, (Article Date 04/01/2013)*
- ◆ *Recycling - Acceptable Curbside Recycling Items, (Article Date 04/12/2013)*

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- ◆ *Recycling of Holiday Lights, (Article Date 04/01/2013)*
- ◆ *Recycle Prescription and Over the Counter medications 24/7/365*
- ◆ *Road Salt Conservation*
- ◆ *RX Box Disposing Meds Safely – Carol Stream, (10/11/2013)*
- ◆ *RX Recycle 24/7/365 @ Carol Stream Police Department*
- ◆ *September is National Preparedness Month, (Article Date 08/30/2013)*
- ◆ *Shoes for Recycling*
- ◆ *Thanksgiving Cooling Oil Recycling Event*
- ◆ *Tornado Preparedness Week (Article Date 04/12/2013)*
- ◆ *Tree Planting at Carol Stream School (Article Date 05/01/2013)*
- ◆ *Vehicle License Sticker Registration, 24/ 7, (Article Date 06/07/2013)*
- ◆ *Tree Trimming Contract Pricing Offered to Intersted Homeowners 9Article Date 10/25/2013)*
- ◆ *Vehicle Registration by Sunday 06/30/2013*
- ◆ *Village Board Adopts the FY 13-14 Budget (Article Date 05/01/2013)*
- ◆ *Volcano Mulching's Damaging Effects (Article Date 05/15/2013)*
- ◆ *Watering Restrictions – Outdoor Watering Restrictions in Effect Year Round, (Article Date 07/08/2013)*
- ◆ *West Branch DuPage River Trail/Public Open House*
- ◆ *What to do After a Flood, (Article Date 05/01/2013)*
- ◆ *Working Bikes Cooperative*
- ◆ *Yard Waste Collection begins in April, ends in November, (Article Date 04/01/2013)*
- ◆ *Yard Waste - Proper Disposal, (Article Date 06/07/2013)*
- ◆ *Yard Waste Pick Up Resumes, (Article Date 04/01/2013)*

The Village Staff prepared and published several Village Happenings newsletter articles on:

- ◆ *8<sup>th</sup> Annual Teen Musicfest, Sat June 29<sup>th</sup>*
- ◆ *30<sup>th</sup> Annual National Night Out, Tue. August 6<sup>th</sup>*
- ◆ *Back to School Fair Wed., Aug 7<sup>th</sup>*
- ◆ *Blood Drive, 08/07/2013*
- ◆ *Carol Stream rated 75<sup>th</sup> Safest City in the nation by Location Inc*
- ◆ *Celebrate 2013 Earth Hour, Saturday, March 23<sup>rd</sup>.*
- ◆ *COD – new student orientation Mon, Apr 29<sup>th</sup>*
- ◆ *Community Blood Drive, Wed., Aug 7<sup>th</sup>*
- ◆ *Composting – Outdoor Composting Workshop, Oct 8<sup>th</sup> through S.C.A.R.E.*
- ◆ *Concerts in the Park, Free*
- ◆ *Consolidated Election Candidate Forum on Local Cable Access Channel*
- ◆ *Department of Commerce & Economic Opportunity (DCEO) Recycling Grant – “The Apartment Recycler”*
- ◆ *Dine Away Hunger Wed, June 12<sup>th</sup> at Alberto's, Augustino's Deli, Culver's, Village Tavern & Grill, Red Apple Pancake*

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- ◆ *DuPage County Student Scholarship Deadline, Fri, May3rd*
- ◆ *Earth Day Recycle Event – Sat, April 20<sup>th</sup>*
- ◆ *Fall Leaf sticker Use Period Begins Monday, October 14<sup>th</sup> for six weeks*
- ◆ *Fall Leaf Pick-Up Scheduled for the November 18<sup>th</sup> Collection Week*
- ◆ *Food Drive – Carol Stream Rotary Club Community Food Drive, Sat, April 13th*
- ◆ *Free Commercial Document Shredding Event on Friday, October 11<sup>th</sup>*
- ◆ *Free Leaf Pick Up Week Scheduled for the November 18<sup>th</sup> Collection Week*
- ◆ *Giant Garage Sale – Western Trails PTO Sat, April 6<sup>th</sup>*
- ◆ *Hanover Park Hosts Fall Recycling & Document Shred Event*
- ◆ *History gathering event 09/30/2013, (Article Date 09/16/2013)*
- ◆ *Holiday Lights Recycling Location, beginning November 18<sup>th</sup>*
- ◆ *Holiday Tree & Greenery Collection*
- ◆ *Independence Day Parade, Concert & Fireworks*
- ◆ *Mosquito Control in your Backyard*
- ◆ *National Nite Out 08/06/2013*
- ◆ *Outdoor Composting Workshop*
- ◆ *Outdoor Watering Restrictions in Effect Year Round – Help Preserve Every Drop (2 Articles)*
- ◆ *Parade Committee Hosts Dine-In Fundraiser Monday, June 10<sup>th</sup>,*
- ◆ *Paint, Carpet Recycling & Residential Document Shredding Event*
- ◆ *Pond & Stream Sweep Volunteers Needed*
- ◆ *Raking Leaves into the Street or Curb is Prohibited*
- ◆ *Recycle Prescription & Over the Counter Medications 24/7/365*
- ◆ *Recycling Event on 10/19/2013, DuPage County Government Center, Paint, Carpet and Document Shredding.*
- ◆ *Recycling Event on 09/28/2013, Hanover Park (Article Date 09/16/2013)*
- ◆ *Recycling Event on 06/08/2013, Wayne Township Reuse and Recycle Event*
- ◆ *Rotary Club, Village & Park District to Host Earth Day Recycling Event & Fest*
- ◆ *Student Scholarship Opportunities – Carol Stream Rotary Club and DuPage County Human Services*
- ◆ *Summer Concert Series*
- ◆ *Summer Carnival at the Town Center, Thurs, June27th thru Sun, June 30th*
- ◆ *Tornado Preparedness Week – Disaster Preparedness Saves Lives article*
- ◆ *Vehicle Registration dead line, Sunday, June 30th*
- ◆ *View Consolidated Election Candidate Forum on Local Cable Access channel*
- ◆ *Village Board Adopts FY13-14 Budget & 3-Year Financial Plan*
- ◆ *Village Board Approves Road Salt Conservation Measures for Balance of Winter*
- ◆ *Village Steps up Response to Ash Borer*

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- ◆ *Voter Information for the April 9<sup>th</sup> Local Consolidated Election*
- ◆ *Wayne Township Recycling Event*

The following water billing messages were sent out:

- ◆ *Accumulating Yard Waste on Property/Parkway Prohibited*
- ◆ *Annual Pond & Stream Sweep*
- ◆ *Yard Waste Pickup Resumes*
- ◆ *Earth Day Recycling Collection Event – Sat., April 20<sup>th</sup>*
- ◆ *FREE Leaf Pick Up Scheduled for the Nov. 18<sup>th</sup> – 22<sup>nd</sup> Refuse Collection Week*
- ◆ *Holiday Lights Recycling*
- ◆ *FREE Business Document Shredding*
- ◆ *Use Discounted Leaf Stickers*
- ◆ *Recycle Paint, Carpet & Doc Shredding*
- ◆ *Recycling Event – Sat., Sept. 28*
- ◆ *Earth Hour – On Sta., March 29*
- ◆ *Free Christmas Tree & Wreath Pick Up Jan. 2<sup>nd</sup> – 17<sup>th</sup>*

The Village Staff has set up a Village Twitter account and a Village corporate Facebook page. The following items were posted to this social media presence:

- ◆ *Calendar Dates*
- ◆ *Fall Flood Prevention and Stream Quality.*
- ◆ *Photo's*
- ◆ *Snow Report – 2013 to 2014*
- ◆ *Thank you's to commercial brokers who attended the Broker's Breakfast.*
- ◆ *West Branch DuPage River Trail Open House – October 22, 2013.*

The Village Board adopted the following proclamations and resolutions:

- ◆ *2013 DuPage River Sweep, Proclamation*
- ◆ *Arbor Day, Declaring April 26, 2013, Proclamation*
- ◆ *Earth Hour, March 29<sup>th</sup>, 2014 8:30 pm – 9:30 pm – Proclamation*
- ◆ *Observance of Earth Day – April 22, 2013, Proclamation*

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### ***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 5 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:

- ◆ Chemical and Biological Phosphorus Removal Testing at the Metropolitan Water Reclamation District of Greater Chicago
- ◆ Chlorides Management at DuPage County
- ◆ Chloride Usage Education and Reduction Program Summary
- ◆ DRSCW Database Portal
- ◆ DRSCW Special Conditions, Tool Outputs and White Paper Recommendations
- ◆ East Branch Basin Bioassessment 2011 Results
- ◆ Efficient and Effective Winter Maintenance: Getting it Done with Less Impact
- ◆ Elgin O'Hare Western Access Chloride Offset Targets and Allocations
- ◆ Facility Planning for Nutrient Removal in the DRSCW's Program Area
- ◆ Illinois Wastewater Treatment Plant Relocation
- ◆ Lower DuPage River Watershed Coalition's chloride reduction workshop.
- ◆ MWRDGC'S Monitoring and Research Departments Seminar Services, "Adaptive Watershed Management to Achieve the Designated Use of Aquatic Life: Salt Creek and the Upper DuPage River."
- ◆ National Great Rivers Research and Education Center (NGRREC) published an article on the DRSCW in their Summer 2013 edition of Illinois River Watcher
- ◆ Oak Meadows River Restoration Plan
- ◆ Oak Meadows Forest Preserve Dam Removal and River Restoration
- ◆ Phosphorus Removal Study at Downers Grove Sanitary District

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- ◆ Stormwater Management on the Elgin O’Hare – Western Access
- ◆ Understanding Nutrient Removal – What should I do to get started?
- ◆ West Branch Fish Passage Enhancement
- ◆ Winter Maintenance – Efficient and Effective Winter Maintenance: Getting it Done with Less Impact
- ◆ White Paper framework

At the State of the Village a presentation was conducted by the Mayor advertising the Village’s Annual Pond & Stream Sweep Event.

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 Projects Committee.

At a Special Workshop Meeting on July 15, 2013 a presentation on FEMA’S 50% Rule was made.

Village Engineer presented the Chloride Reduction Program to the DRSCW.

In conjunction with the DRSCW two Chloride Reduction Workshops were conducted.

### ***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 5 Milestones***

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

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

The Village prepared and distributed numerous News Releases that included:

- ◆ *Armstrong Park Flood Control Reservoir Project & Pump Station – Project Update*
- ◆ *Carol Stream Flood Control Project Moving Forward*
- ◆ *Carol Stream Flood Control Project set to begin this Fall*

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- ◆ *Carol Stream transferring part of Armstrong Park to County*
- ◆ *Chairman Zay discussed future initiatives both at the County and local levels, including Stormwater Management's Klein Creek Flood Mitigation Project.*
- ◆ *Commercial Document Shred Event, October 11<sup>th</sup>, 2013.*
- ◆ *DuPage County Stormwater Management Water Quality Campaign*
- ◆ *FEMA 50% Rule*
- ◆ *Free Document Shred Event hosted by DuPage County and Choose DuPage*
- ◆ *Free Leaf Pick Up Week of November 18<sup>th</sup>, 2013*
- ◆ *Leaf Stickers – Use Discounted Leaf Stickers & Save.*
- ◆ *14<sup>th</sup> Annual Pond & Stream Sweep*
- ◆ *Post-Thanksgiving Cooking Oil Recycling Drop Off Event*
- ◆ *Recycle your broken holiday lights*
- ◆ *Recycling Grant – Department of Commerce & Economic Opportunity awarded a grant to expand recycling in multi-family complexes, The Apartment Recycler*
- ◆ *Use Discounted Leaf Stickers & Save*
- ◆ *Village Continues Response to April 18<sup>th</sup> Severe Storm Event*
- ◆ *West Branch DuPage River Project Entering Final Stages*
- ◆ *West Branch Forest Preserve Klein Fen, River Restoration and Wetland Mitigation Project aimed at improving the river ecology and reducing flooding along a stretch of the West branch DuPage River in Carol Stream is entering its final stage.*
- ◆ *Free Fall Leaf Pick-Up Scheduled for the Nov. 19<sup>th</sup> Collection Week (2 Articles)*
- ◆ *Recycling Your Broken Holiday Light Strands thru Monday, February 4th*
- ◆ *Outdoor Watering Restrictions in Effect Year Round*

The following articles were in the local newspapers:

- ◆ *15<sup>th</sup> Annual Pond & Stream Sweep*
- ◆ *Apartment buildings to gain new recycling bins, Lakehaven Apts, Carolwood Apts, Parkway Commons, Covered Bridges, Villagebrook and Jubilee Village*
- ◆ *Armstrong Park Project Update given to board*
- ◆ *Bud's Run – 10<sup>th</sup> Annual*
- ◆ *Carol Stream Flood Control Project Moving Forward*
- ◆ *Carol Stream Police recognized during traffic safety challenge*
- ◆ *Carol Stream Relay for Life Event*
- ◆ *Carol Stream Savers Recycles, Supports Nonprofits*
- ◆ *Carol Stream takes steps to conserve salt supply*
- ◆ *Carol Stream Transferring part of Armstrong Park to County*
- ◆ *Carol Stream upgrading its planning strategy*

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- ◆ *Community Supports Relay for Life Event*
- ◆ *Concert for the Troops – Village of Carol Stream collecting donations for the 4<sup>th</sup> Annual Concert for the Troops*
- ◆ *Carol Stream Mayor: Flood Relief Efforts will Help*
- ◆ *Earth Day a chance for residents to stand up for environment*
- ◆ *FEMA Aid – Residents may be eligible for FEMA Aid*
- ◆ *FEMA – 50% Rule*
- ◆ *Flood control permit is due for Armstrong Park*
- ◆ *Flood Control Project Moves Forward*
- ◆ *Free Leaf Pick up set for week of November 18th*
- ◆ *Friends of the Earth – Carol Stream annual Earth Day*
- ◆ *Leaf Collection Stickers Available*
- ◆ *Park District Hosts Annual Earth Day Event*
- ◆ *Police recognized during Traffic Safety Challenge*
- ◆ *Pond and Stream Sweep May 18th, volunteers needed*
- ◆ *Join us of the annual Pond & Stream Sweep Event on Saturday, May 17<sup>th</sup>, 2014*
- ◆ *Post-Holiday Recycling Event slated for November 30th*
- ◆ *Relay for Life Event*
- ◆ *Residents may be eligible for FEMA aid*
- ◆ *Savers in Carol Stream – recycles, supports nonprofits*
- ◆ *Seasonal recycling opportunities accompany holidays in Carol Stream*
- ◆ *Summer in the Center concert series*
- ◆ *Tree Planting underway in Carol Stream*
- ◆ *Village Board briefed on Obamacare impact*
- ◆ *Village Continues Response to April 18<sup>th</sup> Severe Storm Event*
- ◆ *Village offers drug disposal drop box plan*
- ◆ *Village Rotary Club to Host Earth Day Even*
- ◆ *Village soliciting meeting input as part of update of village’s Comprehensive Plan*
- ◆ *West Branch of DuPage River/Fair Oaks Road Multi-Use Trail Project, Open House, 10/22/2013*
- ◆ *West Branch DuPage River – West Branch Forest Preserve Klein Fen, River Restoration and Wetland Mitigation Project aims to improve the river ecology along the stretch of the West Branch DuPage River. In addition crews have cleared more than 340 acres of invasive plant species.*
- ◆ *Work Progressing on the West Branch DuPage River*
- ◆ *West Branch Forest Preserve Klein Fen, River Restoration and Wetland Mitigation Project*

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

- ◆ *5<sup>th</sup> Annual Shape of the Village, 09/25/2013, (Article Date 09/13/2013)*

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The Gary Avenue electronic sign messages were broadcasted:

- ◆ *Document Shredding*
- ◆ *Earth Day Festival & Farmer's Market – Saturday, April 26<sup>th</sup>, 2014*
- ◆ *Earth Hour, Saturday, March 29<sup>th</sup>, 2014*
- ◆ *Electronic Landfill Ban*
- ◆ *Fest & Farmers Market – April 21*
- ◆ *Free Electronics Recycling, May 8<sup>th</sup>*
- ◆ *Free Holiday Tree & Wreath Collection – January 2<sup>nd</sup> through January 17<sup>th</sup>, 2014*
- ◆ *Glendale Heights Public Works Recycling Event, April 26<sup>th</sup>, 2014*
- ◆ *Great Western Trail Clean Up*
- ◆ *Green Fair – Sept. 24<sup>th</sup>*
- ◆ *Holiday Cooking Oil Recycling Drop Off, November 30<sup>th</sup>, 2013*
- ◆ *Holiday Lights Recycling – November 18<sup>th</sup> – February 4<sup>th</sup>, 2014*
- ◆ *Household Hazardous Waste Disposal*
- ◆ *No Raking Leaves into Curb – Street Flooding*
- ◆ *Outdoor Water Restrictions*
- ◆ *Paint & Carpet Recycling – October 19<sup>th</sup>, 2013*
- ◆ *Pond sweep Volunteers Needed – Saturday, May 17<sup>th</sup>, 2014*
- ◆ *Recycling RX at Village Hall, Police Department*
- ◆ *Stream Sweep Volunteers Needed*
- ◆ *Recycling Event*
- ◆ *Recycle Wayne Township Admin Center*
- ◆ *Recycle Holiday Greenery*
- ◆ *Village Code Prohibits Raking Leaves into Curb; Clogged Storm Drains will cause street flooding; Clear fallen leaves from storm inlets.*
- ◆ *Water Regulations – Odd / Even addresses*

Village Staff prepared the following notices in the Village of Carol Stream Employee Newsletter:

- ◆ *8<sup>th</sup> Annual Teen Musicfest, Sat June 29<sup>th</sup>*
- ◆ *30<sup>th</sup> Annual National Night Out, Tue. August 6<sup>th</sup>*
- ◆ *Back to School Fair Wed., Aug 7<sup>th</sup>*
- ◆ *Blood Drive, 08/07/2013*
- ◆ *Carol Stream rated 75<sup>th</sup> Safest City in the nation by Location Inc*
- ◆ *Celebrate 2013 Earth Hour, Saturday, March 23<sup>rd</sup>.*
- ◆ *COD – new student orientation Mon, Apr 29<sup>th</sup>*
- ◆ *Community Blood Drive, Wed., Aug 7<sup>th</sup>*
- ◆ *Composting – Outdoor Composting Workshop, Oct 8<sup>th</sup> through S.C.A.R.E.*

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- ◆ *Concerts in the Park, Free*
- ◆ *Consolidated Election Candidate Forum on Local Cable Access Channel*
- ◆ *Department of Commerce & Economic Opportunity (DCEO) Recycling Grant – “The Apartment Recycler”*
- ◆ *Dine Away Hunger Wed, June 12<sup>th</sup> at Alberto’s, Augustino’s Deli, Culver’s, Village Tavern & Grill, Red Apple Pancake*
- ◆ *DuPage County Student Scholarship Deadline, Fri, May3rd*
- ◆ *Earth Day Recycle Event – Sat, April 20<sup>th</sup>*
- ◆ *Fall Leaf sticker Use Period Begins Monday, October 14<sup>th</sup> for six weeks*
- ◆ *Food Drive – Carol Stream Rotary Club Community Food Drive, Sat, April 13th*
- ◆ *Free Commercial Document Shredding Event on Friday, October 11<sup>th</sup>*
- ◆ *Giant Garage Sale – Western Trails PTO Sat, April 6<sup>th</sup>*
- ◆ *Hanover Park Hosts Fall Recycling & Document Shred Event*
- ◆ *History gathering event 09/30/2013, (Article Date 09/16/2013)*
- ◆ *Holiday Lights Recycling Locations*
- ◆ *Independence Day Parade, Concert & Fireworks*
- ◆ *Mosquito Control in your Backyard*
- ◆ *National Nite Out 08/06/2013*
- ◆ *Outdoor Watering Restrictions in Effect Year Round – Help Preserve Every Drop (2 Articles)*
- ◆ *Parade Committee Hosts Dine-In Fundraiser Mon, June 10<sup>th</sup>,*
- ◆ *Pond Sweep Volunteers Needed*
- ◆ *Recycle Prescription & Over the Counter Medications 24/7/365*
- ◆ *Recycle Your Broken Holiday Light Strands Beginning Monday, November 18th*
- ◆ *Recycling Event on 10/19/2013, DuPage County Government Center, Paint, Carpet and Document Shredding.*
- ◆ *Recycling Event on 09/28/2013, Hanover Park (Article Date 09/16/2013)*
- ◆ *Recycling Event on 06/08/2013, Wayne Township Reuse and Recycle Event*
- ◆ *Rotary Club, Village & Park District to Host Earth Day Recycling Event & Fest*
- ◆ *Student Scholarship Opportunities – Carol Stream Rotary Club and DuPage County Human Services*
- ◆ *Summer Concert Series*
- ◆ *Summer Carnival at the Town Center, Thurs, June27th thru Sun, June 30th*
- ◆ *Tornado Preparedness Week – Disaster Preparedness Saves Lives article*
- ◆ *Vehicle Registration dead line, Sunday, June 30th*
- ◆ *View Consolidated Election Candidate Forum on Local Cable Access channel*
- ◆ *Village Board Adopts FY13-14 Budget & 3-Year Financial Plan*
- ◆ *Village Steps up Response to Ash Borer*
- ◆ *Voter Information for the April 9<sup>th</sup> Local Consolidated Election*
- ◆ *Wayne Township Recycling Event*

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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 5 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 18th, 157 volunteers, 23 groups removed 4,100 lbs. of trash and debris from 16 miles of shorelines along 20 ponds and stream sections. Our Pond & Stream Sweep was held in coordination with The Conservation Foundation and the DuPage County Stormwater Management Division. Here are the statistics for the county-wide event – 731 volunteers, 42 miles swept, 19 communities participated, 13.13 tons of trash collected and 1 acre of land restored.

West Branch of DuPage River/Fair Oaks Road Multi-Use Trail Project, Open House, 10/22/2013

THE DRSCW made the following public group presentations:

- ◆ 2013 Clean Rivers, Clean Lake Conference
- ◆ PAHs and Coal Tar sealants – Sierra Club
- ◆ White Paper proposal and Chloride Offset model – WATERCON 2014

The Village conducts workshop – FEMA 50% Rule, Substantial Improvement and Substantial Damage

The Village's Rx Box Program collected 1,790 lbs. of drugs and medical supplies.

A total of 2,396 lbs. of holiday lights were collected for recycling yielding industry-grade copper. The entire proceeds were donated to the Village's Christmas Sharing Program.

The Adopt-A-Highway program utilized volunteers from six (6) community organizations to perform sixteen (16) cleanings removing trash from twenty-two (22) miles of roadways.

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### ***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 5 Milestones***

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

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

The Village’s “Environmental Web Portal” and “Storm Water Management” web page offers a wealth of information on the Village’s efforts toward addressing storm water quality issues and how residents can make an impact. Updated stormwater management web page to include “DuPage County Stormwater Management Water Quality Campaign”.

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 Projects Committee. The DRSCW performed the following additional educational activities in 2013:

- ◆ 2013 Clean Rivers, Clean Lake Conference
- ◆ Adaptive Watershed Management to Achieve the Designated Use for Aquatic Life: Salt Creek and the Upper DuPage River.
- ◆ Application guidance worksheet for commercial parking lot winter deicing.
- ◆ A fact sheet summarizing the characteristics of alternative deicing products.
- ◆ A brochure on coal tar sealants as a source of Polycyclic Aromatic Hydrocarbons (PAHs) aimed at homeowners (produced by the University of New Hampshire Stormwater Center).
- ◆ Coal Tar Based Sealant MOU, cost benefit analysis and summary
- ◆ Chairman Zay discussed future initiatives both at the County and local levels, including Stormwater Management’s Klein Creek Flood Mitigation Project
- ◆ Chloride fact sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
- ◆ DRSCW released a winter newsletter covering roadway levels of service for winter maintenance and the Elgin O’Hare Western Access chloride offset project.
- ◆ DRSCW Special Conditions Tool Outputs and White Paper Recommendations.
- ◆ DuPage County Stormwater Management Water Quality Campaign
- ◆ IPS outreach materials

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- ◆ Lower DuPage River Watershed Coalition’s chloride reduction workshop.
- ◆ “Managing Your Community’s Stormwater”, sponsored by DuPage County Stormwater Management & The Conservation Foundation.
- ◆ Municipal Engineers Group
- ◆ MWRDGC’S Monitoring and Research Departments Seminar Services, “Adaptive Watershed Management to Achieve the Designated Use of Aquatic Life: Salt Creek and the Upper DuPage River.
- ◆ National Great Rivers Research and Education Center (NGRREC) published an article on the DRSCW in their Summer 2013 edition of Illinois River Watcher.
- ◆ Local Deicing Program Updates
- ◆ Oak Meadows Forest Preserve Dam Project
- ◆ Offsetting Chloride Loading from Elgin O’Hare Western Access Project
- ◆ PAHs – Coal Tar Sealant MOU
- ◆ Parking Lot and Sidewalk deicing workshop – 10/3/13
- ◆ Phase diagrams for the most common chloride compounds used in winter maintenance.
- ◆ Published an Educational Chloride Newsletter
- ◆ Public education and outreach on storm water impacts
- ◆ Speak as part of MWRDGC’s Monitoring and Research Departments Seminar Series.
- ◆ Stream Restoration to support ecological integrity at WEFTECH.
- ◆ Water Quality Conditions/Regulatory Update
- ◆ West Branch DuPage River Projects Entering Final Stages
- ◆ West Branch Forest Preserve Klein Fen, River Restoration and Wetland Mitigation Project aimed at improving the river ecology and reducing flooding along a stretch of the West Branch DuPage River in Carol Stream is entering its final stage.
- ◆ White Paper framework.
- ◆ Winter Maintenance – Efficient and Effective Winter Maintenance: Getting it Done with Less Impact

These are the technical presentations the DRSCW presented in 2013:

- ◆ Chemical and Biological Phosphorus Removal Testing at the Metropolitan Water Reclamation District of Greater Chicago
- ◆ Chlorides Management at DuPage County
- ◆ Chloride Offset Project
- ◆ Chloride Usage Education and Reduction Program Summary
- ◆ Conducted two Chloride Reduction Workshops
- ◆ Continuous Dissolved Oxygen Monitoring Workshop
- ◆ DRSCW Database Portal
- ◆ Elgin O’Hare Western Access Chloride Offset Targets and Allocations
- ◆ East Branch Bioassessment 2011 Results
- ◆ Efficient and Effective Winter Maintenance: Getting it Done with Less Impact
- ◆ Facility Planning for Nutrient Removal in the DRSCW’s Program Area – Review DRSCW’s Draft Special Conditions

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- ◆ Oak Meadows River Restoration Plan
- ◆ Oak Meadows Forest Preserve Dam Removal and River Restoration
- ◆ Phosphorus Removal Study at Downers Grove Sanitary District
- ◆ Stormwater Management on the Elgin O’Hare – Western Access (EOWA) Project
- ◆ Tollway MOU (Chloride Offset)
- ◆ Understanding Nutrient Removal: What should I do to get started?
- ◆ West Branch Fish Passage Enhancement

Village Staff attended the following educational programs:

- ◆ Chloride Offset Project
- ◆ Chloride Usage Education and Reduction Program Summary
- ◆ Conducted two Chloride Reduction Workshops
- ◆ Continuous Dissolved Oxygen Monitoring Workshop
- ◆ DuPage County Stormwater Management & The Conservation Foundation – “Managing Your Community’s Stormwater” – May 22, 2013
- ◆ Demonstration Project on Lining Deteriorated Water Mains in lieu of traditional replacement.
- ◆ Economic Development Webinar – Community Development, Finance and Administration staff attended the webinar. Community Development will facilitate a staff roundtable.
- ◆ Efficient and Effective Winter Maintenance: Getting it Done with Less Impact

Prepared and presented the Villages’ Five, Ten and Twenty Year Capital Improvement Program (CIP) to the Village Board in a public workshop and Board meeting.

### **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.

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### ***Year 5 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:

- ◆ Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan
- ◆ MOU committing to reduce loadings of polycyclic aromatic hydrocarbons (PAHs) by excluding the purchase and use of coal-tar based sealants
- ◆ 2013 Salt Creek Basin Assessment Update
- ◆ Chloride Offset Program - Memorandum of Understanding between the Illinois State Toll Highway Authority and The DuPage River Salt Creek Workgroup for Chloride Offset Program
- ◆ Chloride Reduction - Member offset update
- ◆ Chloride Reduction and Education Committee and the Projects Committee.
- ◆ Chloride Reduction Workshops Update
- ◆ Chloride Usage Education and Reduction Program Summary
- ◆ Chloride sampling at all Salt Creek POTWs
- ◆ Churchhill Woods Dam Removal Project
- ◆ Community tracking & enforcing BMPs to make sure they are known to future buyers.
- ◆ CSFPO – Proposed Amendments to CSFPO
- ◆ Data Development Update
- ◆ Database Portal – Geosyntec Consultants.
- ◆ Datum (Section 15-33) and GPS Technology –Existing and Proposed Stormwater Ordinance Requirements for Datum (Section 15-33) and GPS Technology
- ◆ DO sonde deployment for 2013
- ◆ DRSCW Special Conditions Tool Outputs and White Paper Recommendations
- ◆ DuPage County's Gary Avenue Improvement Project – Open House
- ◆ DuPage County Wetland Mapping Initiative
- ◆ DuPage River Watershed Coalition's chloride reduction workshop
- ◆ East Branch DuPage River Basin Assessment 2011
- ◆ Evapotranspiration – Application of Evapotranspiration
- ◆ Fawell Dam fish passage study update
- ◆ General Certification – Creation of a General Certification for Elevation of an Existing Building in the Regulatory Flood Plain
- ◆ GIS Data and Services

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- ◆ HB1522 – Status of HB1522 – Stormwater Management
- ◆ Municipal Engineers Group (MEG)
- ◆ NPDES Annual Report
- ◆ Oak Meadows Project Update – Sediment data supplied to IEPA
- ◆ Oak Meadows Forest Preserve Dam
- ◆ Ordinance Changes – Proposed Ordinance Changes
- ◆ Ordinance Enforcement
- ◆ Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.
- ◆ Revised Stormwater Ordinance
- ◆ SHSAM – Using SHSAM to Select and Size Proprietary BMP’s like the SAFL Baffle
- ◆ Stream Restoration to support ecological integrity at WEFTECH
- ◆ West Branch Fish Passage Enhancement
- ◆ White Paper Update.
- ◆ DuPage County Stormwater Management Program

West Branch of DuPage River/Fair Oaks Road Multi-Use Trail Project, Open House, 10/22/2013

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:

- ◆ Chloride Reduction –
  - Contract with Steven Kaar to do rapid appraisal of Tier 1, this information will support development and implementation of the MOU.
  - Barnes & Thornburg LLP, will do legal advice on language for the MOU with the Tollway.
  - Chloride Reduction and Education Committee.
  - Monitors chloride levels in all three watersheds.
  - Published an educational Chloride Newsletter.
  - Developed the Chloride Offset Program for the Tollway’s Elgin O’Hare Western Access.
- ◆ Created a database portal where all DRSCW monitoring data can be accessed.
- ◆ DRSCW Calendar, Presentations and Press
- ◆ The DRSCW session on stream restoration to support ecological integrity at WEFTECH.
- ◆ Presented the White Paper framework at the October Conference Business meeting for DuPage Mayors and Mangers Conference
- ◆ Extended ammonia mass balance study on the lower East Branch of the DuPage River to identify pollutant sources.
- ◆ Several members of the DRSCW presented information at the Lower DuPage River Watershed Coalition’s chloride reduction workshops in Shorewood, IL
- ◆ Contracted for GIS Data Services

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- ◆ Monitoring Committee –
  - 2013 Salt Creek Basin Assessment
  - East Branch DuPage River Basin Assessment
  - DO Sonde deployment
  - Database Development
- ◆ Seven (7) POTWs conducted additional conductivity and chloride monitoring activities on Salt Creek upstream of their plants and in effluent during August and/or September.
- ◆ MOU between The Illinois State Tollway Authority & The DuPage River Salt Creek Workgroup for Chloride Offset Program
- ◆ Municipal Engineers Group MEG
- ◆ Projects Committee
  - Contract extension has been issued to Inter-Fluve for the Oak Meadows Dam Removal and Stream Restoration Project
  - IPS Outreach materials
  - Chloride Reduction inclusion
  - Updated alternative approach to EPA’s proposed new phosphorous limits.
- ◆ Project Implementation and Financing Update
- ◆ Public Roads De-Icing Workshop. Four Public Works employees attended and the Village Engineer participated in the seminar as our representative on the Workgroup.

Award of Consultant Contract – Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews

DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects Open House.

FEMA’s 50% Rule – A workshop meeting on July 15<sup>th</sup> Village Board Meeting provided an explanation of the FEMA’s 50% Rule for repetitive flood losses and feedback.

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.

Village Staff met or corresponded with several prospective developers including:

AdduXi, A J Antunes; Armstrong Park Site Improvements: Library Bridge, Sled Hill Removal, Assisted Living Facility on Jefferson; Automobile Laundry; Blu LNG; Brunswick Zone Property; Bucky’s Gas Station; 552 Burke Drive; C&C Power; Caputo’s Phase I & II; Caputo’s outlot development; Carolshire – vacant lot near Carolshire; Carolshire Playground; Carol Stream Park District – (Recreation Center & Community Park); Carol Stream Park District relocation of offices and remodeling at Simkus Center; Charles Apartments; Colliers International; Comprehensive Plan Update; DuPage County Armstrong Park Flood Control Reservoir; Pump Station and Siphon Projects; Property belonging

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to the Library; DuPage County seeking communities' input on Stormwater Management Program; DuPage County Division of Transportation Gary Avenue Improvements; Fed Ex Ground Expansion; Former Pizza Hut on Schmale Road; FIC America; Flolo Corporation at 550 Kehoe Blvd.; Gary/Lies – developer is interested in development of the property on the southeast corner of Gary/Lies; Grace Plaza (Wheaton Christian Center); Green Organics; Henkel Corporation; Illini Bridge reconstruction; Internet based company selling wine on Easy Street; Jet- Brite Car Wash; K. Hovanian Homes; Kiddyplace Day Care; Liquid Natural Gas – fueling facility; Market Day 450 Tower Blvd.; M/I Homes Easton Park; Manhattan's Restaurant; Mechanics Union Local 701; Mobile Station; NE Corner Schmale & Geneva; New Directions Housing; New Holland; Northern Builders; Northland Mall – contaminated soil; O'Reilly Auto Parts; Owens and Minor Distribution Inc.; Pace; Peacock Engineering; Pep Boys Auto Service; Phillips Court (west end); Piggly Wiggly Grocery Store; Pizzeria Da Nella; Plumbing Heating & Air Conditioning Service Business on South Main Place; R-Mart and Dunkin Donuts; Rainbow Academy; Red Rooster Plaza; Royal Die & Stamping; SE Corner Gary & Lies; 423 St Paul Boulevard; The Evangelical Alliance Mission (TEAM); Triple C Development LLC; TW Metals; U-Stor-It Facility; Villagebrook Apartments Clubhouse; Wheaton Sanitary District's Northside Interceptor Replacement Project; Wheaton Christian Center; Windfall Plaza; Landscape Waste/Yard Waste Transfer Station – Kuhn Road – Don Oppermann and Dave Gravel; Zippy's Car Wash

### ***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 5 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***

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The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 11 special use requests/PUDs/corridor submittals, 1 redevelopment agreement, 4 ordinance revisions, 1 planned unit developments, 3 easement plats, 3 annexation agreements, 1 plat of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

- ◆ Armstrong Park Flood Control Project – Approved First Amendment to the Intergovernmental Agreement (IGA)
- ◆ Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews
- ◆ DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects – Plans Approved
- ◆ DuPage County Countywide Stormwater and Flood Plain Ordinance of the Carol Stream Code of Ordinances, Building Construction and Maintenance Codes – Approved Ordinance #2013-10-43
- ◆ DuPage County National Hazards Mitigation Plan – Approved Resolution #2663
- ◆ DuPage County Revised Countywide and Flood Plain Ordinance – Approved Ordinance #2013-05-21
- ◆ DuPage River Salt Creek Work Group – Approved Resolution supporting efforts by DRSCWG to improve water quality through adaptive watershed management
- ◆ General Certifications for Chapter 15 of the DuPage County Countywide Stormwater and Flood Plain Ordinance, Pertaining to the Elevation of Existing Buildings – Approved Ordinance # 2013-10-44

FEMA's 50% Rule – A workshop meeting on July 15<sup>th</sup> Village Board Meeting provided an explanation of the FEMA's 50% Rule for repetitive flood losses and feedback.

Presentation to the DuPage River Salt Creek Workgroup (DRSCW) about how the Chloride Committee has been responding to the chloride TMDL imposed by IEPA on our waterways.

Village held an open house for the County's Gary Avenue Improvement Project

Permit Review – A total of 53 plan reviews were performed on 23 different residential, commercial, industrial and institutional developments. Issued 6 storm water management permits, 35 residential building permits, 3 commercial/industrial site permits, 495 accessory permits and 55 parking lot permits.

An open house was held for the West Branch of DuPage River/Fair Oaks Road Multi-Use Trail Project on 10/22/2013.

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### ***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 5 Milestones***

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

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

No changes were made to our Storm Water Management Program policies or procedures.

### ***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. The Village is working on an event promoting use of the drop box for pharmaceuticals.

#### ***Year 5 Milestones***

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

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### *Summary of Accomplishments*

The Village held its annual Pond & Stream Sweep on Saturday, May 18<sup>th</sup>, 157 volunteer, 22 groups removed 4,100 lbs. of trash and debris from 16 miles of shorelines along 18 ponds and stream sections. Our Pond & Stream Sweep was held in coordination with The Conservation Foundation and the DuPage County Stormwater Management Division. Here are the statistics for the county-wide event – 731 volunteers, 42 miles swept, 19 communities participated, 13.13 tons of trash collected and 1 acre of land restored.

Carol Stream held many recycling events:

- ◆ Book Rescue through SCARE
- ◆ Clean up the World Weekend Event on 09/20/2013
- ◆ Document Shredding Event at Town Center DuPage, County will host, 10/11/2013
- ◆ Free Document Shredding, Village of Carol Stream
- ◆ Giving Old Bikes New Homes
- ◆ Recycling Holiday Cooking Oil
- ◆ Recycling Event on 04/20/2013 – Village of Carol Stream – Electronic, Books, Athletic Shoes, Working Bikes, Document Shredding
- ◆ Recycling Event on 10/11/2013 – Village of Carol Stream – Document Shredding
- ◆ Recycling of Holiday Lights
- ◆ RX Box Disposing Meds Safely
- ◆ Turkey Fryer Oil Recycling Event – 12,583 pounds of used cooking oil was collected from approximately 300 residents.

The Village also publicized recycling events in surrounding towns:

- ◆ *Recycling Event on 10/19/2013, DuPage County Government Center, Paint, Carpet and Document Shredding*
- ◆ *Recycling Event on 06/08/2013, Wayne Township Reuse and Recycle Event*
- ◆ *Recycling Event on 09/28/2013, Village of Hanover Park.*
- ◆ *Recycling Events in Illinois – Electronics and Document Shredding Events, List of Dates from April to July and Towns*
- ◆ *Recycling – Acceptable Curbside Recycling Items*

Actively participated in the Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan.

Adaptive Management to meet the Goals of the Clean Water Act – Executive Summary – Presented to the DuPage Mayors and Managers Conference on 10/16/2013.

The Adopt-A-Highway program utilized volunteers from six (6) community organizations to perform sixteen (16) cleanings removing trash from twenty-two (22) miles of roadways.

Com2 presented the Village with a check for the copper that was recycled from Christmas tree lights.

Formulated a Comprehensive Plan steering committee.

The Director of Public Works addressed a Glenbard North High School class regarding issues related to clean drinking water, including an element regarding the role that storm water plays in the water cycle.

### **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 5 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.

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

Edited swQuality Control feature class in preparation for Storm Sewer GPS collection

Compiled the layout for the sanitary and stormwater atlases.

Trained Building Maintenance on acquisition of GPS coordinates using the Trimble GEOX6000 unit.  
Acquired over 2,800 GPS coordinates of public and private sanitary sewer and stormwater structures.

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Networked the GPS coordinates collected for the sanitary and storm sewer atlases.

GPS surveyed and inspected sanitary sewer manholes in basin #23

### ***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 5 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***

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

- ◆ Application of Evapotranspiration
- ◆ Datum (Section 15-33) and GPS Technology - Existing and Proposed Stormwater Ordinance Requirements for Datum (Section 15-33) and GPS Technology
- ◆ Proposed Ordinance Changes
- ◆ Summary of Vote for Proposed Amendments to CSFPO
- ◆ Status of HB1522

DuPage River Salt Creek Workgroup – Monitoring Committee

- ◆ 2013 Salt Creek basin assessment update.

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- ◆ East Branch DuPage River Basin Assessment 2011 – The Report has been sent to East Branch members and monitoring committee members for review.
- ◆ DO sonde deployment for 2013 has been wrapped up.
- ◆ Database Development Update.
- ◆ Chloride sampling at all Salt Creek POTWs is complete.

Prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and General Certifications and incorporated it into the Village Code.

Public Works video recorded the inspection of sanitary sewer pipes on Gary Avenue. The review is being done in anticipation of the County's project on Gary.

### ***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 5 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***

Continued with the Sanitary Sewer System Evaluation Study (SSES). Cleaning and televising the second sanitary sewer basin under study. Performing manhole inspections and GPS coordinate identification of structures in a third basin where flow testing indicated a likelihood of

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significant inflow and infiltration. Public Works began addressing minor deficiencies found in the basins studies to date and will put together a plan for addressing more serious problems in upcoming fiscal years.

Public Works completed review of the video records of the inspection of sanitary sewer pipes on Gary Avenue. The review is being done in anticipation of the County's project on Gary Avenue.

Instituted an Overhead Sewer Program to help reduce sanitary sewer overflows (SSOs).

Staff at the Water Reclamation Center completed refresher training on the storm sewer system protection plan and standard operating procedures. The water reclamation plant fully complied with its EPA discharge standards.

Created and published the Water Reclamation Center Utility Map. Created the following feature classes: Storm Sewer System GPS Collection Quality Control – swQuality Control.

The following summarizes the Village's response to reported illicit discharges:

- ◆ Evergreen Lake - An incident was reported that 50 to 100 dead fish were noticed at Evergreen Lakes. After inspection the Park District noted a very heavy algae blanket in the water. Seeing no other factors that would explain the die-off they concluded that the heavy algae blanket may be causing the die-off.
- ◆ Public Works assisted in containing a spill of diesel fuel from the truck's fuel tank. The spill did not extend to the storm sewer or ditch line.
- ◆ On 8/20/13 a Public Works supervisor observed a Service Master crew discharging water, grease and cleaning product in and around a storm sewer catch basin in the rear of the property at 172 Easy Street. The firm agreed to assume expenses to have the Village clean the catch basin and, if necessary, the downstream pipe(s) to remove any illicit discharge material. The Village also provided information regarding the Clean Water Act and the Illicit Discharge Detection and Elimination Ordinance in DuPage County and encouraged the company to make sure employees are aware of the proper manner in which to dispose of the by-product of their cleaning process.
- ◆ On 4/18/13 Public Works became aware of an SSO near 505 Mohican Road as a result of extreme rainfall and flooding that occurred throughout the region that day. Following recess of the flood waters crews thoroughly cleaned the area of the SSO and inspected the sanitary main to verify that no blockages were present.
- ◆ On 6/13/13 a small SSO was reported. Upon inspection it was determined that the blockage resulted from a collection of rags and a piece of two-by-four lumber lodged in the pipe. Crews dislodged the pipe and flushed the line to restore flow. Routine follow up inspections of this area with a pole camera and the flusher unit continue.
- ◆ On 7/29/13 an SSO was reported at 1392 Lincolnshire Court in a floor drain in the basement of a private residence. Upon inspection it was determined that a dense root ball caused the backup; crews cleared the root ball and flushed and inspected the lines in the area. The area continues to be inspected periodically, flushed and root-cut as required.
- ◆ On 12/29/13 an SSO was reported in the ejector pit of a residence at 1365 Lance. A blockage was noted in the sewer main as a result of grease, which was quickly cleared by Public Works staff. The area continues to be inspected periodically and flushed as required.

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- ◆ On 2/24/13 an SSO was reported in a flood drain in the lower level of a residence at 490 Aleut Court. Upon inspection it was determined that a dense root ball caused the backup; crews cleared the root ball and flushed and inspected the lines in the area. The area continues to be inspected periodically, flushed and root-cut as required.
- ◆ A non-residential property on Westgate experienced a small sewer backup through a floor drain. Public Works responded and found grease blockage in the main, which was quickly cleared and cleaned.
- ◆ Sanitary sewer overflow in the parkway adjacent to 333 Kimberly was reported. The overflow was contained entirely to the grassy area and was likely caused by a blockage in the line of unknown origin.

A fecal coliform sample taken for the WRC recently tested positive. IEPA protocol for retesting was followed and the second sample tested negative. The incident will be included in our next Consumer Confidence report.

### ***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.

#### ***Year 5 Milestones***

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

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

- ◆ Acquired over 2,800 GPS coordinates of public and private sanitary sewer and stormwater structures.
- ◆ Status of HB1522.
- ◆ Application of Evapotranspiration.
- ◆ DRSCW - Monitoring Committee.
- ◆ Existing and Proposed Stormwater Ordinance Requirements for Datum (Section 15-33) and GPS Technology.

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- ◆ Overhead Sewer Program – Community Development - qualified applicants can participate in a 50:50 cost share.
- ◆ Public Works video recorded the inspection of sanitary sewer pipes on Gary Avenue. The review is being done in anticipation of the County's project on Gary.
- ◆ Revised Stormwater Ordinance.

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 & Managers Conference Review Group of the Ordinance update. Participated in formulating revisions to the DuPage County Storm Water Ordinance through the Municipal Engineers Group and DuPage Mayors & Managers Conference Review Group meetings. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

The Village evaluated the collection of 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 and worked on the facilitation of the fecal coliform TMDL.

Village staff attended the following educational seminars:

- ◆ DuPage County Stormwater Ordinance – Datum, GPS
- ◆ DuPage County Stormwater Ordinance – GPS Surveying Requirements
- ◆ DuPage County Stormwater Ordinance – Update
- ◆ LPC-663, Uncontaminated Soil Certification. What's New!
- ◆ Managing Your Community's Storm Water
- ◆ Monitoring and Assessment Program
- ◆ Private Sector I/I: The Final FrontierE3: Economy, Energy & Environmental Initiative
- ◆ Public Works Stormwater Summit – Session One
- ◆ Public Works Stormwater Summit – Session Two
- ◆ Public Roads De-icing Workshop-DuPage River Salt Creek Workshop
- ◆ Green Infrastructure Symposium – The Conservation Foundation
- ◆ Current Storm water regulations and Policies – The Conservation Foundation
- ◆ Stream Monitoring DatabasePortal
- ◆ Snow Plan review and salt usage instruction (entire operations staff)
- ◆ Underground storage tank Operator Training – Class A/B (1 employee)

- ◆ Trench Collapse refresher course – IRMA

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

- ◆ Community tracking & enforcing BMPs to make sure they are known to future buyers.

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- ◆ CSFPO – Proposed Amendments to CSFPO
- ◆ Data Development Update
- ◆ Database Portal – Geosyntec Consultants.
- ◆ Datum (Section 15-33) and GPS Technology –Existing and Proposed Stormwater Ordinance Requirements for Datum (Section 15-33) and GPS Technology
- ◆ General Certification – Creation of a General Certification for Elevation of an Existing Building in the Regulatory Flood Plain
- ◆ HB1522 – Status of HB1522 – Stormwater Management
- ◆ Municipal Engineers Group (MEG)
- ◆ NPDES Annual Report
- ◆ Ordinance Changes – Proposed Ordinance Changes
- ◆ Ordinance Enforcement
- ◆ Revised Stormwater Ordinance

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

The following training sessions were attended:

- ◆ DuPage County Stormwater Ordinance – BMPs
- ◆ DuPage County Stormwater Ordinance – Update
- ◆ LPC-663, Uncontaminated Soil Certification. What’s New!
- ◆ Public Works Stormwater Summit – Session One
- ◆ Public Works Stormwater Summit – Session Two

### ***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.

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

### ***Year 5 Milestones***

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

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

The following training sessions were attended:

- ◆ Datum (Section 15-33) and GPS Technology - Existing and Proposed Stormwater Ordinance requirements for Datum (Section 15-33) and GPS Technology
- ◆ DuPage County Stormwater Management – Design and Maintenance of Stormwater Infiltration Practices Seminar
- ◆ Evapotranspiration - Application of Evapotranspiration
- ◆ Biotechnical Replacement Options for Rock Rip Rip and other Hard Armor Systems

## ***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 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 the 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 5 Milestones***

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.

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### *Summary of Accomplishments*

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

- ◆ Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan
- ◆ Churchhill Woods Dam Removal Project
- ◆ Community tracking & enforcing BMPs to make sure they are known to future buyers.
- ◆ Datum (Section 15-33) and GPS Technology –Existing and Proposed Stormwater Ordinance Requirements for Datum (Section 15-33) and GPS Technology
- ◆ DRSCW Special Conditions Tool Outputs and White Paper Recommendations
- ◆ DuPage County Wetland Mapping Initiative
- ◆ Evapotranspiration – Application of Evapotranspiration
- ◆ General Certification – Creation of a General Certification for Elevation of an Existing Building in the Regulatory Flood Plain
- ◆ Oak Meadows Project Update
- ◆ Oak Meadows Forest Preserve Dam
- ◆ SHSAM – Using SHSAM to Select and Size Proprietary BMP's like the SAFL Baffle
- ◆ Stream Restoration to support ecological integrity at WEFTECH
- ◆ West Branch Fish Passage Enhancement
- ◆ DuPage County Stormwater Management Program

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

The following training sessions were attended:

- ◆ Biotechnical Replacement Options for Rock Rip Rip and other Hard Armor Systems
- ◆ DuPage County Stormwater Ordinance – BMPs
- ◆ LPC-663, Uncontaminated Soil Certification. What's New!
- ◆ Public Works Stormwater Summit – Session One
- ◆ Public Works Stormwater Summit – Session Two

Awarded a consultant engineering contract to Christopher B Burke Engineering Ltd for review of storm water management permit submittals with pre and post construction BMPs as well as inspections. Through the use of the engineering consultant, all storm water permit submittals were reviewed. A total of 6 permits were issued.

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Annexation – South side of Lies, East of Kuhn, property owner inquired about annexation of 2.44 acre property for redevelopment. Staff prepared a packet on the annexation process and redevelopment options for which zoning approval is feasible.

DuPage County has provided final construction plans for the Gary Avenue Improvement Project which the Village has reviewed.

Northland Mall – contamination at the north end of Northland Mall. IEPA has requested additional soil samples. IEPA advised the contamination appears to be volatile organic compounds and does not appear to be major.

Scheffler property was being used as a mulch storage and free fill operation without permits. Owner needed to obtain an earth movement permit and BMPs for the free fill operation. Geneva Crossing Phase II pled guilty and paid a \$75 fine plus court costs for having an illegal landscape contractor operation on the property. The mulch stockpile on the property was removed.

Senne Property on Vale – Community Development is proceeding with the annexation process.

Permit Review – A total of 53 plan reviews were performed on 23 different residential, commercial, industrial and institutional developments. Issued 6 storm water management permits, 35 residential building permits, 3 commercial/industrial site permits, 495 accessory permits and 55 parking lot permits.

West Branch DuPage River Trail Project Open House was hosted by the Village where the public had the opportunity to view the preliminary plans, ask questions and provide comments.

Wheaton Sanitary District's Northside Interceptor replacement Project preliminary plans have been reviewed and approved.

### ***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 cannot 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.

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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 5 Milestones***

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***

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

- ◆ Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan
- ◆ MOU committing to reduce loadings of polycyclic aromatic hydrocarbons (PAHs) by excluding the purchase and use of coal-tar based sealants
- ◆ Churchhill Woods Dam Removal Project
- ◆ Community tracking & enforcing BMPs to make sure they are known to future buyers.
- ◆ DuPage County Wetland Mapping Initiative
- ◆ HB1522 – Status of HB1522 – Stormwater Management
- ◆ Municipal Engineers Group (MEG)
- ◆ NPDES Annual Report
- ◆ Oak Meadows Project Update
- ◆ Oak Meadows Forest Preserve Dam
- ◆ SHSAM – Using SHSAM to Select and Size Proprietary BMP's like the SAFL Baffle
- ◆ Stream Restoration to support ecological integrity at WEFTECH
- ◆ West Branch Fish Passage Enhancement
- ◆ DuPage County Stormwater Management Program

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 11 special use requests/PUDs/corridor submittals, 1 redevelopment agreement, 4 ordinance revisions, 1 planned unit developments, 3 easement plats, 3 annexation agreements, 1 plat of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

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- ◆ Armstrong Park Flood Control Project – Approved First Amendment to the Intergovernmental Agreement (IGA)
- ◆ Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews
- ◆ DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects – Plans Approved
- ◆ DuPage County Countywide Stormwater and Flood Plain Ordinance of the Carol Stream Code of Ordinances, Building Construction and Maintenance Codes – Approved Ordinance #2013-10-43
- ◆ DuPage County National Hazards Mitigation Plan – Approved Resolution #2663
- ◆ DuPage County Revised Countywide and Flood Plain Ordinance – Approved Ordinance #2013-05-21
- ◆ DuPage River Salt Creek Work Group – Approved Resolution supporting efforts by DRSCWG to improve water quality through adaptive watershed management
- ◆ General Certifications for Chapter 15 of the DuPage County Countywide Stormwater and Flood Plain Ordinance, Pertaining to the Elevation of Existing Buildings – Approved Ordinance # 2013-10-44

DuPage County received one bid for their Armstrong Park Project and it was significantly higher than the engineer's estimate, mostly likely the bid will be rejected and the project re-engineered and rebid. Engineering met with the County, their engineer and the Park District to develop a plan to address the high bid and lack of bids. The County will be installing "Jersey" barriers to help hold back their stockpile of dirt at Armstrong Park and silt fence for soil erosion and sediment control.

Planning & Zoning Administration - Staff prepared 23 separate development cases for consideration by the Plan Commission.

Scheffler property was being used as a mulch storage and free fill operation without permits. Owner needed to obtain an earth movement permit and BMPs for the free fill operation. Geneva Crossing Phase II pled guilty and paid a \$75 fine plus court costs for having an illegal landscape contractor operation on the property. The mulch stockpile on the property was removed.

Twitter and Facebook – the Village sent out its first tweet inviting the community to the West Branch DuPage River Trail Open House.

Open houses were conducted by the Village for our West Branch DuPage River Trail and Schmale Road Water Main Replacement Projects where the public had the opportunity to view the preliminary plans, ask questions and provide comments.

Engineering staff actively participated in the Winfield Creek Watershed Stakeholders Group as the County began their Watershed Flood Control Study and Plan.

Village Staff met or corresponded with several prospective developers including:

AdduXi, A J Antunes; Armstrong Park Site Improvements: Library Bridge, Sled Hill Removal, Assisted Living Facility on Jefferson; Automobile Laundry; Blu LNG; Brunswick Zone Property; Bucky's Gas Station; 552 Burke Drive; C&C Power; Caputo's Phase I & II; Caputo's outlot development; Carolshire – vacant lot near Carolshire; Carolshire Playground; Carol Stream Park District – (Recreation Center & Community Park); Carol Stream Park District relocation of offices and remodeling at Simkus Center; Charles Apartments; Colliers International;

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

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Comprehensive Plan Update; DuPage County Armstrong Park Flood Control Reservoir; Pump Station and Siphon Projects; Property belonging to the Library; DuPage County seeking communities' input on Stormwater Management Program; DuPage County Division of Transportation Gary Avenue Improvements; Fed Ex Ground Expansion; Former Pizza Hut on Schmale Road; FIC America; Flolo Corporation at 550 Kehoe Blvd.; Gary/Lies – developer is interested in development of the property on the southeast corner of Gary/Lies; Grace Plaza (Wheaton Christian Center); Green Organics; Henkel Corporation; Illini Bridge reconstruction; Internet based company selling wine on Easy Street; Jet- Brite Car Wash; K. Hovanian Homes; Kiddyplace Day Care; Liquid Natural Gas – fueling facility; Market Day 450 Tower Blvd.; M/I Homes Easton Park; Manhattan's Restaurant; Mechanics Union Local 701; Mobile Station; NE Corner Schmale & Geneva; New Directions Housing; New Holland; Northern Builders; Northland Mall – contaminated soil; O'Reilly Auto Parts; Owens and Minor Distribution Inc.; Pace; Peacock Engineering; Pep Boys Auto Service; Phillips Court (west end); Piggly Wiggly Grocery Store; Pizzeria Da Nella; Plumbing Heating & Air Conditioning Service Business on South Main Place; R-Mart and Dunkin Donuts; Rainbow Academy; Red Rooster Plaza; Royal Die & Stamping; SE Corner Gary & Lies; 423 St Paul Boulevard; The Evangelical Alliance Mission (TEAM); Triple C Development LLC; TW Metals; U-Stor-It Facility; Villagebrook Apartments Clubhouse; Wheaton Sanitary District's Northside Interceptor Replacement Project; Wheaton Christian Center; Windfall Plaza; Landscape Waste/Yard Waste Transfer Station – Kuhn Road – Don Oppermann and Dave Gravel; Zippy's Car Wash

Community Development and Engineering met with representatives of the company that acquired the property on the southeast corner of Gary/Lies. Potential uses for the property and potential economic development incentives were discussed.

Engineering staff met with the DuPage County Division of Transportation and their consultant to discuss final engineering plans and permitting for Gary Avenue Improvement Project. The project includes 2.1 mile of pavement improvement from North Avenue to Army Trail Road. Stormwater detention requirements will be met through upsizing of storm sewer pipes. Flood plain compensatory storage will be provided in the pond immediately north of the culvert.

Received, investigated and resolved 34 drainage and storm water issues through the Village's CSR system.

### ***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.

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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 5 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***

The following training sessions were attended:

- ◆ Biotechnical Replacement Options for Rock Rip Rip and other Hard Armor Systems
- ◆ DuPage County Stormwater Ordinance – BMPs
- ◆ DuPage County Stormwater Ordinance – Update
- ◆ LPC-663, Uncontaminated Soil Certification. What’s New!
- ◆ Public Works Stormwater Summit – Session One
- ◆ Public Works Stormwater Summit – Session Two

DuPage County received one bid for their Armstrong Park Project and it was significantly higher than the engineer’s estimate, mostly likely the bid will be rejected and the project re-engineered and rebid. Engineering met with the County, their engineer and the Park District to develop a plan to address the high bid and lack of bids. The County will be installing “Jersey” barriers to help hold back their stockpile of dirt at Armstrong Park and silt fence for soil erosion and sediment control.

Community Development met with the attorney for the property owner at 423 St Paul Boulevard regarding ongoing violations of the conditions of approval for a special use granted in 2008.

Scheffler property was being used as a mulch storage and free fill operation without permits. Owner needed to obtain an earth movement permit and BMPs for the free fill operation. Geneva Crossing Phase II pled guilty and paid a \$75 fine plus court costs for having an illegal landscape contractor operation on the property. The mulch stockpile on the property was removed.

**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 5 Milestones***

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.

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

- ◆ Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan
- ◆ 2013 Salt Creek Basin Assessment Update

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- ◆ Churchill Woods Dam Removal Project
- ◆ Community tracking & enforcing BMPs to make sure they are known to future buyers.
- ◆ Datum (Section 15-33) and GPS Technology –Existing and Proposed Stormwater Ordinance Requirements for Datum (Section 15-33) and GPS Technology
- ◆ DRSCW Special Conditions Tool Outputs and White Paper Recommendations
- ◆ DuPage County Wetland Mapping Initiative
- ◆ East Branch DuPage River Basin Assessment 2011
- ◆ Evapotranspiration – Application of Evapotranspiration
- ◆ Fawell Dam fish passage study update
- ◆ HB1522 – Status of HB1522 – Stormwater Management
- ◆ Municipal Engineers Group (MEG)
- ◆ Oak Meadows Project Update
- ◆ Oak Meadows Forest Preserve Dam
- ◆ SHSAM – Using SHSAM to Select and Size Proprietary BMP’s like the SAFL Baffle
- ◆ Stream Restoration to support ecological integrity at WEFTECH
- ◆ West Branch Fish Passage Enhancement
- ◆ White Paper Update
- ◆ DuPage County Stormwater Management Program

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

The following training sessions were attended:

- ◆ DuPage County Stormwater Management – Design and Maintenance of Stormwater Infiltration Practices Seminar
- ◆ “Managing Your Community’s Stormwater sponsored by DuPage County Stormwater Management & The Conservation Foundation – May 2013
- ◆ DuPage County Stormwater Ordinance – BMPs
- ◆ DuPage County Stormwater Ordinance – Dredging Operations
- ◆ DuPage County Stormwater Ordinance – Technology and Application of Evapotranspiration
- ◆ DuPage County Stormwater Ordinance – Update
- ◆ Infiltration
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- ◆ An Innovative and Cost Effective Stormwater Retrofit Program The Green Infrastructure Portfolio standard GIPS
- ◆ Green Alleys and Streets How Are They Working?
- ◆ Green Streets and Porous Pavement Lessons for Sustainability Savings and Success
- ◆ Oak Meadows Restoration

### ***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 5 Milestones***

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:

- ◆ Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan
- ◆ 2013 Salt Creek Basin Assessment Update
- ◆ Churchhill Woods Dam Removal Project
- ◆ Community tracking & enforcing BMPs to make sure they are known to future buyers.

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- ◆ Datum (Section 15-33) and GPS Technology –Existing and Proposed Stormwater Ordinance Requirements for Datum (Section 15-33) and GPS Technology
- ◆ DRSCW Special Conditions Tool Outputs and White Paper Recommendations
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- ◆ East Branch DuPage River Basin Assessment 2011
- ◆ Evapotranspiration – Application of Evapotranspiration
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- ◆ SHSAM – Using SHSAM to Select and Size Proprietary BMP’s like the SAFL Baffle
- ◆ Stream Restoration to support ecological integrity at WEFTECH
- ◆ West Branch Fish Passage Enhancement
- ◆ White Paper Update
- ◆ DuPage County Stormwater Management Program

Actively participated in the Winfield Creek Stakeholders Group for the County’s Watershed Flood Control Study and Plan. Successfully integrated our Southeast Stormwater Study into their study.

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

Two easements were 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 5 Milestones***

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.

Awarded a consultant engineering contract to Christopher B Burke Engineering Ltd for review of storm water management permit submittals with pre and post construction BMPs as well as inspections. Through the use of the engineering consultant, all storm water permit submittals were reviewed. A total of 6 permits were issued.

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

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

- ◆ Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan
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- ◆ Stream Restoration to support ecological integrity at WEFTECH
- ◆ West Branch Fish Passage Enhancement
- ◆ White Paper Update
- ◆ DuPage County Stormwater Management Program

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 11 special use requests/PUDs/corridor submittals, 1 redevelopment agreement, 4 ordinance revisions, 1 planned unit developments, 3 easement plats , 3 annexation agreements, 1 plat of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

- ◆ Armstrong Park Flood Control Project – Approved First Amendment to the Intergovernmental Agreement (IGA)
- ◆ Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews
- ◆ DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects – Plans Approved
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- ◆ DuPage River Salt Creek Work Group – Approved Resolution supporting efforts by DRSCWG to improve water quality through adaptive watershed management
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DuPage County received one bid for their Armstrong Park Project and it was significantly higher than the engineer’s estimate, mostly likely the bid will be rejected and the project re-engineered and rebid. Engineering met with the County, their engineer and the Park District to develop a plan to address the high bid and lack of bids. The County will be installing “Jersey” barriers to help hold back their stockpile of dirt at Armstrong Park and silt fence for soil erosion and sediment control.

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Planning & Zoning Administration - Staff prepared 23 separate development cases for consideration by the Plan Commission.

Community Development met with the attorney for the property owner at 423 St Paul Boulevard regarding ongoing violations of the conditions of approval for a special use granted in 2008.

Scheffler property was being used as a mulch storage and free fill operation without permits. Owner needed to obtain an earth movement permit and BMPs for the free fill operation. Geneva Crossing Phase II pled guilty and paid a \$75 fine plus court costs for having an illegal landscape contractor operation on the property. The mulch stockpile on the property was removed.

Twitter and Facebook – the Village sent out its first tweet inviting the community to the West Branch DuPage River Trail Open House.

Open houses were conducted by the Village for our West Branch DuPage River Trail and Schmale Road Water Main Replacement Projects where the public had the opportunity to view the preliminary plans, ask questions and provide comments.

Engineering staff actively participated in the Winfield Creek Watershed Stakeholders Group as the County began their Watershed Flood Control Study and Plan.

Annexation – South side of Lies, East of Kuhn, property owner inquired about annexation of 2.44 acre property for redevelopment. Staff prepared a packet on the annexation process and redevelopment options for which zoning approval is feasible.

Northland Mall – contamination at the north end of Northland Mall. IEPA has requested additional soil samples. IEPA advised the contamination appears to be volatile organic compounds and does not appear to be major.

Permit Review – A total of 53 plan reviews were performed on 23 different residential, commercial, industrial and institutional developments. Issued 6 storm water management permits, 35 residential building permits, 3 commercial/industrial site permits, 495 accessory permits and 55 parking lot permits.

Wheaton Sanitary District's Northside Interceptor replacement Project preliminary plans have been reviewed and approved.

Actively participated in the Winfield Creek Stakeholders Group for the County's Watershed Flood Control Study and Plan. Successfully integrated our Southeast Stormwater Study into their study.

Village Staff met or corresponded with several prospective developers including:

AdduXi, A J Antunes; Armstrong Park Site Improvements: Library Bridge, Sled Hill Removal, Assisted Living Facility on Jefferson; Automobile Laundry; Blu LNG; Brunswick Zone Property; Bucky's Gas Station; 552 Burke Drive; C&C Power; Caputo's Phase I & II; Caputo's outlot development; Carolshire – vacant lot near Carolshire; Carolshire Playground; Carol Stream Park District – (Recreation Center &

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Community Park); Carol Stream Park District relocation of offices and remodeling at Simkus Center; Charles Apartments; Colliers International; Comprehensive Plan Update; DuPage County Armstrong Park Flood Control Reservoir; Pump Station and Siphon Projects; Property belonging to the Library; DuPage County seeking communities' input on Stormwater Management Program; DuPage County Division of Transportation Gary Avenue Improvements; Fed Ex Ground Expansion; Former Pizza Hut on Schmale Road; FIC America; Flolo Corporation at 550 Kehoe Blvd.; Gary/Lies – developer is interested in development of the property on the southeast corner of Gary/Lies; Grace Plaza (Wheaton Christian Center); Green Organics; Henkel Corporation; Illini Bridge reconstruction; Internet based company selling wine on Easy Street; Jet- Brite Car Wash; K. Hovanian Homes; Kiddyplace Day Care; Liquid Natural Gas – fueling facility; Market Day 450 Tower Blvd.; M/I Homes Easton Park; Manhattan's Restaurant; Mechanics Union Local 701; Mobile Station; NE Corner Schmale & Geneva; New Directions Housing; New Holland; Northern Builders; Northland Mall – contaminated soil; O'Reilly Auto Parts; Owens and Minor Distribution Inc.; Pace; Peacock Engineering; Pep Boys Auto Service; Phillips Court (west end); Piggly Wiggly Grocery Store; Pizzeria Da Nella; Plumbing Heating & Air Conditioning Service Business on South Main Place; R-Mart and Dunkin Donuts; Rainbow Academy; Red Rooster Plaza; Royal Die & Stamping; SE Corner Gary & Lies; 423 St Paul Boulevard; The Evangelical Alliance Mission (TEAM); Triple C Development LLC; TW Metals; U-Stor-It Facility; Villagebrook Apartments Clubhouse; Wheaton Sanitary District's Northside Interceptor Replacement Project; Wheaton Christian Center; Windfall Plaza; Landscape Waste/Yard Waste Transfer Station – Kuhn Road – Don Oppermann and Dave Gravel; Zippy's Car Wash

Community Development and Engineering met this week with representatives of the company that acquired the property on the southeast corner of Gary/Lies. Potential uses for the property and potential economic development incentives were discussed.

In compliance with state regulations for the disposal of clean construction debris, fourteen loads of tested spoils were hauled by Public Works to an approved dumpsite in North Aurora.

Engineering staff met with the DuPage County Division of Transportation and their consultant to discuss final plans and permitting for Gary Avenue Improvement Project. The project includes 2.1 mile of pavement improvement from North Avenue to Army Trail Road. Stormwater detention requirements will be met through upsizing of storm sewer pipes. Flood plain compensatory storage and post BMPs will be provided in the pond immediately north of the culvert. DuPage County has provided final construction plans for the Gary Avenue Improvement Project which the Village has reviewed.

Working with DuPage County and the State a fifth flood plain structure buyout project has been approved.

House of Carpets cleaned up debris on their property.

Received, investigated and resolved 22 drainage and storm water issues through the Village's CSR process.

Renaissance Apartments – All nine trash enclosures have been replaced and debris cleaned up.

Senne Property on Vale – Community Development is proceeding with the annexation process. A public hearing is anticipated on November 18, 2013.

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Stormwater Easement – Engineering is working with an unincorporated property owner on a stormwater easement across his property. Subdivisions were contracted in Carol Stream that utilized a storm sewer and swale across his property. An easement for these improvements was never executed.

The following training sessions were attended:

- ◆ DuPage County Stormwater Management – Design and Maintenance of Stormwater Infiltration Practices Seminar
- ◆ “Managing Your Community’s Stormwater sponsored by DuPage County Stormwater Management & The Conservation Foundation – May 2013
- ◆ DuPage County Stormwater Ordinance – BMPs
- ◆ DuPage County Stormwater Ordinance – Dredging Operations
- ◆ DuPage County Stormwater Ordinance – Technology and Application of Evapotranspiration
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- ◆ Green Alleys and Streets How Are They Working?
- ◆ Green Streets and Porous Pavement Lessons for Sustainability Savings and Success
- ◆ Oak Meadows Restoration

### ***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.

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### ***Year 5 Milestones***

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.

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 11 special use requests/PUDs/corridor submittals, 1 redevelopment agreement, 4 ordinance revisions, 1 planned unit developments, 3 easement plats, 3 annexation agreements, 1 plat of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

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The following training sessions were attended:

- ◆ DuPage County Stormwater Management – Design and Maintenance of Stormwater Infiltration Practices Seminar
- ◆ “Managing Your Community’s Stormwater sponsored by DuPage County Stormwater Management & The Conservation Foundation – May 2013
- ◆ DuPage County Stormwater Ordinance – BMPs
- ◆ DuPage County Stormwater Ordinance – Dredging Operations
- ◆ DuPage County Stormwater Ordinance – Technology and Application of Evapotranspiration
- ◆ DuPage County Stormwater Ordinance – Update
- ◆ Infiltration
- ◆ Biotechnical Replacement Options for Rock Rip Rip and other Hard Armor Systems
- ◆ Revised Stormwater Ordinance
- ◆ Status of HB1522
- ◆ Public Works Stormwater Summit – Session One
- ◆ Public Works Stormwater Summit – Session Two
- ◆ An Innovative and Cost Effective Stormwater Retrofit Program The Green Infrastructure Portfolio standard GIPS
- ◆ Green Alleys and Streets How Are They Working?
- ◆ Green Streets and Porous Pavement Lessons for Sustainability Savings and Success
- ◆ Oak Meadows Restoration

### *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 5 Milestones***

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.

On June 19, 2013 Public Works received and investigated a report of fish die-off at Evergreen Lakes Park. The complainant reported that some of the fish, as well as some rocks on the pond bank, had a blue substance on them. Since the park is owned and maintained by the Carol Stream Park District staff consulted with them. Park staff advised that they noticed the fish die-off a couple days prior and, upon inspection, noted a very heavy algae blanket in the water. Seeing no other factors that would explain the die-off, they concluded that the heavy algae blanket may be causing the die-off. Park staff sent a crew to scoop out the dead fish. PW advised IEPA that an inspection and investigation was conducted and that there was no evidence to suggest an illicit discharge.

Provided comments at the MEG on 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. Participated in formulating revisions to the DuPage County Storm Water Ordinance. Also prepared a comprehensive review of several Storm Water Ordinance drafts. Adopted the Stormwater Ordinance and incorporated it into the Village Code.

Responded to storm water issues at several private storm facility locations:

- ◆ Removed beaver debris blocking an outlet pipe at Kehoe and Kimberly detention area
- ◆ Removed trash and debris plugging the outfall at the Heritage Plaza Shopping Center
- ◆ Removed trash and debris plugging the outfall at Concord Point Townhome Association
- ◆ Removed possible beaver dam materials blocking the creek at the Carol Stream Park District’s Evergreen Park

Removed beaver dams from the following locations, re-establishing flow and water levels and protecting stream shorelines:

- ◆ Culverts on Birchbark (on two occasions)
- ◆ Community Park (north of Geneva Road)

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 11 special use requests/PUDs/corridor submittals, 1 redevelopment agreement, 4 ordinance revisions, 1 planned unit developments, 3

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easement plats , 3 annexation agreements, 1 plat of subdivision, 2 grants of stormwater easements, 12 awarded contracts for stormwater services and on these other following items:

- ◆ Armstrong Park Flood Control Project – Approved First Amendment to the Intergovernmental Agreement (IGA)
- ◆ Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews
- ◆ DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects – Plans Approved
- ◆ DuPage County Countywide Stormwater and Flood Plain Ordinance of the Carol Stream Code of Ordinances, Building Construction and Maintenance Codes – Approved Ordinance #2013-10-43
- ◆ DuPage County National Hazards Mitigation Plan – Approved Resolution #2663
- ◆ DuPage County Revised Countywide and Flood Plain Ordinance – Approved Ordinance #2013-05-21
- ◆ DuPage River Salt Creek Work Group – Approved Resolution supporting efforts by DRSCWG to improve water quality through adaptive watershed management
- ◆ General Certifications for Chapter 15 of the DuPage County Countywide Stormwater and Flood Plain Ordinance, Pertaining to the Elevation of Existing Buildings – Approved Ordinance # 2013-10-44

Brush has been observed in the culverts under Gary Avenue that drain the large retention basin at Savers. Staff believes this may be the work of beavers. Staff is coordinating removal of this obstruction with DuPage County.

Engineering met with Corpus Christi Catholic Church to assist in determining the cause of higher than normal water levels in their detention basin. Debris was blocking the outlet. Engineering contacted the Church to have the debris removed and trim back reeds and trees around the outlet.

Engineering inspected several locations where stream or pond elevations appear higher than normal. Staff is working with DuPage County on the removal of several downed trees from Klein Creek downstream of American Sales and the Gary-Kehoe reservoir where there is an apparent blockage at the outlet. DuPage County lowered the water level with pumps. The obstruction was identified and safely removed.

Installed five aerators in four ponds. Algae problems continue at Day Lily Pond. Aquatic weed applications will be applied to kill the algae.

Awarded a consultant engineering contract to Christopher B Burke Engineering Ltd for review of storm water management permit submittals with pre and post construction BMPs as well as inspections. A total of 6 permits were issued. Through the use of an engineering consultant, special management areas (SMAs) and native vegetation was inspected and monitoring plans were reviewed.

Completed the 2013 Pond Evaluation & Maintenance Project where herbicide treatments, herbaceous mowings and cuttings of native prairie pond shorelines and wetlands were performed at sixteen locations for \$23,015 and prescribed burns from the 2012 project were done at eleven locations in the spring at a cost of \$16,100. Our pond shoreline maintenance contractor continues to remove invasive species and identify illegal dumping and mowing. Engineering has provided written and personal notification to homeowners suspected of dumping/mowing of native plantings.

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The Village is investigating enforcement actions that might be available for a repeat offender that has dumped dirt and construction debris into a retention pond/wetland.

The Village received and planted \$8,000 worth of free seed from Fermi National Accelerator Laboratory, enough to supplement approximately 12 acres of existing native plantings.

The following training sessions were attended:

- ◆ Current Storm water regulations and Policies – The Conservation Foundation
- ◆ DuPage County Stormwater Management – Design and Maintenance of Stormwater Infiltration Practices Seminar
- ◆ DuPage County Stormwater Ordinance – BMPs
- ◆ DuPage County Stormwater Ordinance – Dredging Operations
- ◆ DuPage County Stormwater Ordinance – Technology and Application of Evapotranspiration
- ◆ DuPage County Stormwater Ordinance – Update
- ◆ Infiltration
- ◆ Biotechnical Replacement Options for Rock Rip Rip and other Hard Armor Systems
- ◆ Green Infrastructure Symposium- The Conservation Foundation
- ◆ “Managing Your Community’s Stormwater” – May 2013
- ◆ Public Roads De-icing Workshop-DuPage River Salt Creek Workshop
- ◆ Revised Stormwater Ordinance
- ◆ Snow Plan Review and salt usage instruction (entire operations staff)
- ◆ Status of HB1522
- ◆ Trench Collapse refresher course - IRMA
- ◆ Underground storage tank Operator Training – ClassA/B (1 employee)
- ◆ Public Works Stormwater Summit – Session One
- ◆ Public Works Stormwater Summit – Session Two
- ◆ An Innovative and Cost Effective Stormwater Retrofit Program The Green Infrastructure Portfolio standard GIPS
- ◆ Green Alleys and Streets How Are They Working?
- ◆ Green Streets and Porous Pavement Lessons for Sustainability Savings and Success
- ◆ Oak Meadows Restoration

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:

- ◆ 2013 Clean Rivers, Clean Lake Conference in Wisconsin
- ◆ 2013 Salt Creek basin assessment – A contract has been signed with SLI for chemical sampling on Salt Creek.
- ◆ 2013 Salt Creek basin assessment update – Water column chemistry and one round of biological and habitat sampling are complete.

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- ◆ Created a database portal where all DRSCW monitoring data can be accessed. Database has been updated.
- ◆ DO Sonde deployment
- ◆ DRSCW has been invited to speak as part of the MWRDGC'S Monitoring and Research Departments Seminar Series – “Adaptive Watershed Management to Achieve the Designated Use for Aquatic Life: Salt Creek and the Upper DuPage River”.
- ◆ Developed and updated alternative approach to EPA’s proposed new phosphorous limits – DRSCW Special Conditions Tool Outputs and White Paper Recommendations
- ◆ Presented the White Paper framework at the October Conference Business meeting for DuPage Mayors and Mangers Conference
- ◆ East Branch DuPage River Basin Assessment 2011
- ◆ Fawell Dam fish passage study
- ◆ Developed IPS outreach materials
- ◆ National Great Rivers Research and Education Center (NGRREC) published an article on the DRSCW in their summer 2013 edition of Illinois River Watcher.
- ◆ Oak Meadows Dam Removal and Stream Restoration Project – Contract extension has been issued to Inter-Fluve.
- ◆ Oak Meadows Forest Preserve Dam – A river restoration plan
- ◆ Oak Meadows Project update – Sediment data has been supplied to IEPA for review.
- ◆ Project Implementation and Financing Update – Updated materials have been supplied to the Illinois EPA for review.
- ◆ Stream Restoration to support ecological integrity at WEFTECH presentation
- ◆ West Branch Fish Passage Enhancement
- ◆ White Paper framework presentation.
- ◆ Project Implementation and Financing Update

### **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 5 Milestones***

Evaluate the procedures for effectiveness and improve training as necessary based on completed session surveys and suggestions. 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***

Public Works and/or Community Development were offered the following training sessions:

- ◆ 2013 IWEA Nutrient Removal and Recovery Workshop
- ◆ DRSCW Chloride Reduction Workshop, “2013 Public Roads Deicing Workshop”, Sept. 26, 2013
- ◆ DRSCW Chloride Reduction Workshop, “2013 Marking & Sidewalk Deicing Workshop”, October 3, 2013
- ◆ DRSCW to co-resent in a national webinar for stormwater BMPs on transportation infrastructure hosted by the USEPA.
- ◆ DRSCW to speak on the subject of PAHs and Coal tar sealants by the local chapter of the Sierra Club on March 10<sup>th</sup>.
- ◆ DRSCW to present information on the White Paper proposal and Chloride Offset model on March 18<sup>th</sup> at WATERCON 2014.

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- ◆ Public Roads De-Icing Workshop hosted by the DuPage River Salt Creek Workgroup and DuDot.
- ◆ Managing Your Community's Storm water
- ◆ Public Roads De-icing Workshop-DuPage River Salt Creek Workshop
- ◆ Green Infrastructure Symposium – The Conservation Foundation
- ◆ Current Storm water regulations and Policies – The Conservation Foundation
- ◆ Snow Plan review and salt usage instruction (entire operations staff)
- ◆ Underground storage tank Operator Training – Class A/B (1 employee)
- ◆ Trench Collapse refresher course – IRMA

The following training sessions were attended:

- ◆ Chloride Offset Program DRAFT MOU and Draft Scope of Work
- ◆ Community Development staff attended training this week that will assist in performing damage assessments required by FEMA.
- ◆ DRSCW Chloride Reduction Workshop
- ◆ DuPage County Stormwater Management – Design and Maintenance of Stormwater Infiltration Practices Seminar
- ◆ Managing Your Community's Storm water
- ◆ Public Roads De-icing Workshop-DuPage River Salt Creek Workshop
- ◆ Green Infrastructure Symposium – The Conservation Foundation
- ◆ Current Storm water regulations and Policies – The Conservation Foundation
- ◆ Snow Plan review and salt usage instruction (entire operations staff)
- ◆ Underground storage tank Operator Training – Class A/B (1 employee)
- ◆ Trench Collapse refresher course - IRMA
- ◆ Efficient and Effective Winter Maintenance: Getting it Done with Less Impact.
- ◆ FEMA's 50% Rule - Engineering and Community Development attended a seminar presented by Federal and State Agencies regarding computer software to calculate damages to structures in the floodplain.
- ◆ The Benefits of a Geographic Approach to Infrastructure Management.
- ◆ DuPage County Stormwater Ordinance – Update
- ◆ Substantial Damage Estimation
- ◆ Flood Plain Remapping
- ◆ LPC-663 Uncontaminated Soil Certification. What's New!
- ◆ Public Works Stormwater Summit – Session One
- ◆ Public Works Stormwater Summit – Session Two
- ◆ An Innovative and Cost Effective Stormwater Retrofit Program The Green infrastructure Portfolio Standard GIPS
- ◆ Efficient & Effective Winter Maintenance: Getting it Done with Less Impact
- ◆ Chloride Reduction Program
- ◆ Public Roads Deicing Workshop
- ◆ Tollway Offset Program

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- ◆ Project Implementation & Financing
- ◆ Oak Meadows Restoration
- ◆ Private Sector I/I: The final FrontierE3: Economy, Energy & Environment Initiative
- ◆ What is Sabotaging our Underground System and How Do We Fight Back

Staff at the Water Reclamation Center completed refresher training on the storm sewer system protection plan and standard operating procedures. The water reclamation plant fully complied with its EPA discharge standards.

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 Projects Committee. The DRSCW performed the following additional educational activities in 2013:

- ◆ 2013 Clean Rivers, Clean Lake Conference
- ◆ Adaptive Watershed Management to Achieve the Designated Use for Aquatic Life: Salt Creek and the Upper DuPage River.
- ◆ Application guidance worksheet for commercial parking lot winter deicing.
- ◆ A fact sheet summarizing the characteristics of alternative deicing products.
- ◆ A brochure on coal tar sealants as a source of Polycyclic Aromatic Hydrocarbons (PAHs) aimed at homeowners (produced by the University of New Hampshire Stormwater Center).
- ◆ Coal Tar Based Sealant MOU, cost benefit analysis and summary
- ◆ Chairman Zay discussed future initiatives both at the County and local levels, including Stormwater Management’s Klein Creek Flood Mitigation Project
- ◆ Chloride fact sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
- ◆ DRSCW released a winter newsletter covering roadway levels of service for winter maintenance and the Elgin O’Hare Western Access chloride offset project.
- ◆ DRSCW Special Conditions Tool Outputs and White Paper Recommendations.
- ◆ DuPage County Stormwater Management Water Quality Campaign
- ◆ IPS outreach materials
- ◆ Lower DuPage River Watershed Coalition’s chloride reduction workshop.
- ◆ “Managing Your Community’s Stormwater”, sponsored by DuPage County Stormwater Management & The Conservation Foundation.
- ◆ Municipal Engineers Group
- ◆ MWRDGC’S Monitoring and Research Departments Seminar Services, “Adaptive Watershed Management to Achieve the Designated Use of Aquatic Life: Salt Creek and the Upper DuPage River.
- ◆ National Great Rivers Research and Education Center (NGRREC) published an article on the DRSCW in their Summer 2013 edition of Illinois River Watcher.
- ◆ Local Deicing Program Updates
- ◆ Oak Meadows Forest Preserve Dam Project
- ◆ Offsetting Chloride Loading from Elgin O’Hare Western Access Project

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- ◆ PAHs – Coal Tar Sealant MOU
- ◆ Parking Lot and Sidewalk deicing workshop – 10/3/13
- ◆ Phase diagrams for the most common chloride compounds used in winter maintenance.
- ◆ Published an Educational Chloride Newsletter
- ◆ Public education and outreach on storm water impacts
- ◆ Speak as part of MWRDGC’s Monitoring and Research Departments Seminar Series.
- ◆ Stream Restoration to support ecological integrity at WEFTECH.
- ◆ Water Quality Conditions/Regulatory Update
- ◆ West Branch DuPage River Projects Entering Final Stages
- ◆ West Branch Forest Preserve Klein Fen, River Restoration and Wetland Mitigation Project aimed at improving the river ecology and reducing flooding along a stretch of the West Branch DuPage River in Carol Stream is entering its final stage.
- ◆ White Paper framework.
- ◆ Winter Maintenance – Efficient and Effective Winter Maintenance: Getting it Done with Less Impact

These are the technical presentations the DRSCW presented in 2013:

- ◆ Chemical and Biological Phosphorus Removal Testing at the Metropolitan Water Reclamation District of Greater Chicago
- ◆ Chlorides Management at DuPage County
- ◆ Chloride Offset Project
- ◆ Chloride Usage Education and Reduction Program Summary
- ◆ Conducted two Chloride Reduction Workshops
- ◆ Continuous Dissolved Oxygen Monitoring Workshop
- ◆ DRSCW Database Portal
- ◆ Elgin O’Hare Western Access Chloride Offset Targets and Allocations
- ◆ East Branch Bioassessment 2011 Results
- ◆ Efficient and Effective Winter Maintenance: Getting it Done with Less Impact
- ◆ Facility Planning for Nutrient Removal in the DRSCW’s Program Area – Review DRSCW’s Draft Special Conditions
- ◆ Oak Meadows River Restoration Plan
- ◆ Oak Meadows Forest Preserve Dam Removal and River Restoration
- ◆ Phosphorus Removal Study at Downers Grove Sanitary District
- ◆ Stormwater Management on the Elgin O’Hare – Western Access (EOWA) Project
- ◆ Tollway MOU (Chloride Offset)
- ◆ Understanding Nutrient Removal: What should I do to get started?
- ◆ West Branch Fish Passage Enhancement

Met with Wood Dale Public Works Director, Matt York, to explain DRSCW’s Tollway Offset and Chloride Reduction Programs. DRSCW updated their web site and performed monitoring in all three watersheds.

Village Engineer chaired the Chloride Usage Education & Reduction Committee and participated on the Project Committee.

## ***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.

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

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 5 Milestones***

Continue the Catch Basin Cleaning, Inspection and Assessment Program, the Street Sweeping Program, the Wetland & Pond Shoreline Monitoring & Management Program, the Sanitary Sewer Inspection Program and the 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:

- ◆ Installed aerators in several ponds.
- ◆ Thirteen ash trees on the grounds of the farmhouse were removed after it was noticed that they were dead or dying from Emerald Ash borer.
- ◆ Completed flushing and televising sewer lines in basin #24.
- ◆ DuPage County helped remove a large fallen willow tree in Klein Creek just east and south of Jimmy Johns on Army Trail.
- ◆ Employed a contractor to trim approximately 700 trees in Zone 6 at a cost of around \$24,000.
- ◆ The Village received and planted \$8,000 worth of free seed from Fermi National Accelerator Laboratory, enough to supplement approximately 12 acres of existing native plantings.
- ◆ Expended nearly 3,600 man-hours on storm system maintenance and approximately \$175,000 (unaudited) on storm water maintenance and repair (non-capital).
- ◆ Inspected and GPS located 165 manholes in sanitary sewer basin #23.
- ◆ Installed twenty-four (24) inflow dishes on sanitary manholes in basins 39 and 24 as recommended by prior I&I inspections conducted by a consulting engineer.

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- ◆ Conducted the Pond & Stream Sweep event on Saturday, May 18th, 2013 where 155 volunteer with 22 groups removed 4,100 lbs. of trash and debris from 16 miles of shorelines along 18 ponds and stream sections.
- ◆ Completed the 2013 Pond Evaluation & Maintenance Project where herbicide treatments, herbaceous mowings and cuttings of native prairie pond shorelines and wetlands were performed at sixteen locations for \$23,015 and prescribed burns from the 2012 project were done at eleven locations in the spring at a cost of \$16,100. Our pond shoreline maintenance contractor continues to remove invasive species and identify illegal dumping and mowing. Engineering has provided written and personal notification to homeowners suspected of dumping/mowing of native plantings.
- ◆ Restoration work has been completed for the fourth flood plain buy out/demolition.
- ◆ Contracts for the fall tree trimming and fall tree planting are being prepared.
- ◆ Public Works completed the landscape maintenance season. Equipment has been serviced
- ◆ Public Works staff met with our consulting engineer for improvements at the WRC.
- ◆ The sanitary sewer pipes under Gary Avenue were videotaped. The review was done in anticipation of the County's project on Gary Avenue.
- ◆ Village crews cleared debris from culverts and other structures in advance of the spring and fall storms.
- ◆ A tree at Carol Stream School was planted in recognition of Arbor Day.
- ◆ Completed the Fair Oaks Road Catch Basin Repair Project.
- ◆ Public Works responded to sewer back up on Westgate. Grease blockage in main which was quickly cleared and cleaned.
- ◆ The Salt Dome Roof Replacement Project was completed.
- ◆ Staff discovered a sanitary sewer overflow in the parkway adjacent to 333 Kimberly on Thursday, June 13, at approximately 11:15am. The line was cleared by 12:45 pm and the required initial report has been submitted to the IEPA.
- ◆ Residents whose property abuts a bike path have been sent a letter asking them to trim trees conflicting with the path. If the branches are not trimmed Public Works will perform the trimming.
- ◆ Use a combination of in-house and contracted assistance to accomplish the following major initiatives:
  - Over 300 manholes cleaned
  - Approximately 20,000 lineal feet of pipe flushed
  - Approximately 2,200 lineal feet of pipe televised
  - Completed root-cutting in seven locations
  - Removed debris from two major drainage culverts (Old Gary and Lies Road culverts)
  - Cleaned and repaired thirty-four (34) catch basins
  - Completed repair (via contract) of eleven (11) catch basin structures on Fair Oaks Road.
  - Replaced twenty-five (25) stolen storm sewer grates
  - Replaced seven (7) storm sewer grates damaged by snow plows
- ◆ Village-wide contracted street sweeping was conducted eight times during the period, covering all Village-owned streets. Spot sweeping and emergency sweeping were conducted with an in-house sweeper.
- ◆ Village maintains over 8,000 parkway trees that help filter and absorb storm water runoff. During the period the Village removed approximately 1,000 EAB-infested parkway trees and planted 1,200.

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- ◆ Water Reclamation Center - Agreement for Operations, Maintenance and Management Services authorizing an increase for the period May 1, 2013 through April 30, 2014

Carol Stream has 77 biodiesel and 22 E85 vehicles in its fleet.

Carol Stream is currently employing both pre-wetting and anti-icing measures in its annual Snow Removal Plan. Pre-wetting salt and using an anti-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. Snow removal for 2013 we averaged 69.4 tons of salt per 1” of snow.

Due to extreme winter and salt shortages placed several salt conservation strategies into practice:

- ◆ No salt on courts and cul-de-sacs.
- ◆ Salting only on main roads, intersections, curves/hills and school zones.
- ◆ Salt use only on final plowing pass.

Expanded brine-making capability to allow for expanded use of anti-icing program to reduce overall use of salt during plowing operations.

Benjamin School District 25 and Community Fellowship Church, Engineering met to discuss sanitary sewer service to their neighborhood. The School District identified some recent problems with their septic system.

Continued to track storm water expenses to assess if this area needs to be a program.

The Village has entered into an engineering services agreement with Baxter & Woodman Inc. for engineering design and bid assistance services for the Water Reclamation Center Aeration System Improvement Program Phase II Project to upgrade the aeration system to lower energy consumption and improve operations.

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. A total of 23 drainage CSRs were processed.

Community Park – Crews worked over two days to remove a large beaver dam constructed at the south end of Community Park. DuPage County has agreed to include the southeast are of the Village in the study of the Winfield Creek Watershed. Continued with the Sanitary Sewer System Evaluation Study.

Completed the Phase I Design Study and Phase Final Engineering for the Illini Drive Bridge Replacement Project.

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Working with the DuPage Mayors & Managers Conference a request has been made to FEMA to extend the flood plain mapping process to allow adequate time for municipal concerns to be addressed.

Fly dumping on Kimberly – Public Works cleaned up after an unknown party dumped over twenty large tires in the parkway along with carpeting and netting. Cost of proper disposal of tires was approximately \$150.00.

Completed annual culvert inspections with Bridge Inspections Program.

The SCADA system was hit by lightning disrupting communications and operations of various sewer and water stations. Trained operators continuously monitored the operation of the various sewer and water facilities.

Oversaw 157 volunteers participating in the 2013 Pond & Stream Sweep. They represented 9 businesses, 6 groups/organizations and 8 families removing 4,100 pounds of trash from Klein Creek and 20 ponds covering 16 miles of shorelines. The was our second highest turn out ever.

The Village received and applied \$8,000 worth of free seed from Fermi National Accelerator Laboratory, enough to supplement approximately 12 acres of existing native plantings.

The Village received another grant for replacement of trees removed by beavers at the northwest corner of Gary & Lies.

Public Works assisted resident on Lance Ct. with sewage back up and will continue to assist as needed.

Continued with the Sanitary Sewer System Evaluation Study (SSES). Cleaning and televising the second sanitary sewer basin under study. Performing manhole inspections and GPS coordinate identification of structures in a third basin where flow testing indicated a likelihood of significant inflow and infiltration. Public Works began addressing minor deficiencies found in the basins studies to date and will put together a plan for addressing more serious problems in upcoming fiscal years.

Public Works worked with the Park District on addressing a beaver problem on both sides of Birchbark near Evergreen Park and Stonebridge Park. Our staff offered our equipment for use in breaking up the dam(s).

Brush has been observed in the culverts under Gary Avenue that drain the large retention basin at Savers. Staff believes this may be the work of beavers. Staff is coordinating removal of this obstruction with DuPage County.

Engineering met with Corpus Christi Catholic Church to assist in determining the cause of higher than normal water levels in their detention basin. Debris was blocking the outlet. Engineering contacted the Church to have the debris removed and trim back reeds and trees around the outlet.

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Engineering inspected several locations where stream or pond elevations appear higher than normal. Staff is working with DuPage County on the removal of several downed trees from Klein Creek downstream of American Sales and the Gary-Kehoe reservoir where there is an apparent blockage at the outlet. DuPage County lowered the water level with pumps. The obstruction was identified and safely removed.

The Village investigated several storm water management facilities including:

- ◆ Armstrong Park Project
- ◆ Corpus Christi Catholic Church
- ◆ Culverts under Gary Avenue
- ◆ Culverts under Birchbark
- ◆ Improvements at the WRC
- ◆ Wheaton Sanitary District's Northside Interceptor Replacement Project
- ◆ Removal of several downed trees from Klein Creek downstream of American Sale

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:

- ◆ Chloride Reduction –
  - Contract with Steven Kaar to do rapid appraisal of Tier 1, this information will support development and implementation of the MOU.
  - Barnes & Thornburg LLP, will do legal advice on language for the MOU with the Tollway.
  - Chloride Reduction and Education Committee.
  - Monitors chloride levels in all three watersheds.
  - Published an educational Chloride Newsletter.
  - Developed the Chloride Offset Program for the Tollway's Elgin O'Hare Western Access.
- ◆ The DRSCW session on stream restoration to support ecological integrity at WEFTECH.
- ◆ Presented the White Paper framework at the October Conference Business meeting for DuPage Mayors and Managers Conference
- ◆ Extended ammonia mass balance study on the lower East Branch of the DuPage River to identify pollutant sources.
- ◆ Several members of the DRSCW presented information at the Lower DuPage River Watershed Coalition's chloride reduction workshops in Shorewood, IL
- ◆ Monitoring Committee –
  - 2013 Salt Creek Basin Assessment
  - East Branch DuPage River Basin Assessment
  - DO Sonde deployment
  - Database Development
- ◆ Seven (7) POTWs conducted additional conductivity and chloride monitoring activities on Salt Creek upstream of their plants and in effluent during August and/or September.

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- ◆ MOU between The Illinois State Tollway Authority & The DuPage River Salt Creek Workgroup for Chloride Offset Program
- ◆ Municipal Engineers Group MEG
- ◆ Projects Committee
  - Contract extension has been issued to Inter-Fluve for the Oak Meadows Dam Removal and Stream Restoration Project
  - IPS Outreach materials
  - Chloride Reduction inclusion
  - Updated alternative approach to EPA’s proposed new phosphorous limits.
- ◆ Project Implementation and Financing Update
- ◆ Public Roads De-Icing Workshop. Four Public Works employees attended and the Village Engineer participated in the seminar as our representative on the Workgroup.

The Village adopted a resolution of support for DRSCW’s approach to utilize adaptive watershed management.

### ***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 5 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.

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

Carol Stream held the following recycling events:

- ◆ Book Rescue through SCARE
- ◆ Clean up the World Weekend Event on 09/20/2013
- ◆ Document Shredding Event at Town Center DuPage, County will host, 10/11/2013
- ◆ Free Document Shredding, Village of Carol Stream
- ◆ Giving Old Bikes New Homes
- ◆ Recycling Holiday Cooking Oil
- ◆ Recycling Event on 04/20/2013 – Village of Carol Stream – Electronic, Books, Athletic Shoes, Working Bikes, Document Shredding
- ◆ Recycling Event on 10/11/2013 – Village of Carol Stream – Document Shredding
- ◆ Recycling of Holiday Lights – A total of 2,396 lbs. of holiday lights were collected for recycling.
- ◆ RX Box Disposing Meds Safely – The Village collected 1,790 lbs. of drugs and medical supplies.
- ◆ Turkey Fryer Oil Recycling Event – 12,583 pounds of used cooking oil was collected from approximately 300 residents.

The following accomplishments were achieved:

- ◆ Adopt-A-Highway Program utilized volunteers from six (6) community organizations to perform sixteen (16) cleanups removing trash from 22 miles of roadway.
- ◆ Adopt-A-Highway – OMI volunteered to clean the bike path between WRC and Easton Park. This is in addition to the portion of Birchbark they already clean between Kuhn and County Farm.
- ◆ All road salt is stored under roof in salt dome and surrounding area is regularly swept to avoid runoff.
- ◆ Annual Pond & Stream Sweep Clean Up was held May 18<sup>th</sup>, 2013 and resulted in 16 miles of shoreline cleaned, and 4,100 pounds of garbage picked up by 157 volunteers.
- ◆ Check in the amount of \$3,646.00, the 25% local match for the State Grant to expand recycling in our multi-family dwellings was received from Flood Brothers.
- ◆ Continued efforts to identify sources of inflow and infiltration (I&I) and to perform follow-up work as necessary, including:
  - Cleaning and televising of basin #24 collection system.
  - GPS locating and inspection of 165 manholes in basin #23
  - Installation of twenty-four (24) inflow dishes in sanitary manholes identified via prior inspections.
- ◆ Maintained and supervised the department's spoil management, recording and reporting system at the Public Works Facility to properly handle, test and dispose of spoil and debris.
- ◆ Operated five (5) aerators providing oxygen to four ponds.
- ◆ Operate over thirty (30) vehicles/equipment that use bio-diesel.
- ◆ Performed nearly 3,600 Public Works man-hours on storm system maintenance.

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- ◆ Recycled the following quantities of waste:
  - 26,000 pounds of various metal products, including: street signs, water meters, fire hydrants, general scrap and surplus/used pipe and other equipment.
  - 216 tires.
  - 416 retired water meter AMR radio-heads.
- ◆ Reported SSOs as required, performed immediate investigation, clean up and maintenance and conducted follow-up monitoring.
- ◆ Village owned wastewater treatment facility on Kuhn Road with a plant capacity of 6.5 MGD; treated over 2.0 billion gallons during the reporting period.
- ◆ The Village is investigating alternatives to meet future WRC regulations for nutrients (phosphorous and nitrogen).

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.

2013 Flexible Pavement - Additional testing was required for the 2013 Flexible Pavement Project to provide compliance with clean construction or demolition debris disposal laws.

Engineering inspected several locations where stream or pond elevations appear higher than normal. Staff is working with DuPage County on the removal of several downed trees from Klein Creek downstream of American Sales. The culverts under Birchbark are partially blocked causing higher water levels in Evergreen Lakes. Public Works is investigating this matter.

Our pond shoreline maintenance contractor continues to remove invasive species and identify illegal dumping and mowing. Engineering has provided written and personal notification to homeowners suspected of dumping/mowing of native plantings.

Pond and Stream Sweep - The Village held its annual Pond & Stream Sweep on Saturday, May 18th, 155 volunteer, 22 groups removed 4,100 lbs. of trash and debris from 16 miles of shorelines along 18 ponds and stream sections. Our Pond & Stream Sweep was held in coordination with The Conservation Foundation and the DuPage County Stormwater Management Division. Here are the statistics for the county-wide event – 731 volunteers, 42 miles swept, 19 communities participated, 13.13 tons of trash collected and 1 acre of land restored

Public Works placed sandbags at the curb for homeowners and crews cleared debris from culverts and other structures in advance of the midweek storms. Social Services are overseeing the distribution of 30 flood clean up kits.

Public Works videotaped the inspection of sanitary sewer pipes on Gary Avenue. The review is being done in anticipation of the County's project on Gary

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Public Works – Employees participated in a refresher meeting regarding snow plowing and sent into their respective routes to identify potential hazards. Letters were sent to residents whose mailboxes need replacement or repositioning. Employees were also introduced to our new brine-making equipment.

Public Works continues to work with a resident on Lance Court who experienced a sewage back up in her home.

The Village agreed to offer the salt brine to School District 25 at no cost.

### ***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 5 Milestones***

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

### ***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.

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

- ◆ Creation of a General Certification for Elevation of an Existing Building in the Regulatory Flood Plain
- ◆ CRS Guide for Local Officials
- ◆ CSFPO - Summary for Proposed Amendments to CSFPO
- ◆ Countywide Flooding Response Program
- ◆ Datum (Section 15-33) - Follow up discussion on Stormwater Ordinance Requirements for Datum (Section 15-33)
- ◆ Datum (Section 15-33) and GPS Technology - Existing and Proposed Stormwater Ordinance requirements for Datum (Section 15-33) and GPS Technology
- ◆ DuPage County Stormwater and Flood Plain Ordinance Revision Adoption
- ◆ Flood Plain Mapping Status
- ◆ General Certifications
- ◆ Municipal Engineers Group
- ◆ NPDES Annual Report
- ◆ Ordinance Enforcement
- ◆ Presentation of Substantial Damage Estimation
- ◆ Proposed Ordinance Changes
- ◆ Revised Stormwater Ordinance
- ◆ Stormwater Management - April 2013 Flood Operations

Actively participated in the Winfield Creek Stakeholders Group for the County' Watershed Flood Control Study and Plan. Successfully integrated our Southeast Stormwater Study into their study with minimal cost to the Village.

Engineering continues to monitor flood plain mapping and its impact on our residents.

Conducted a FEMA 50% Rule - Special Workshop Meeting on July 15, 2013 – Substantial Improvement and Substantial Damage

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Reviewed and approved plans and contract documents for the DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects. Assisted them in resolving permitting, cost, bidding and grant funding issues. DuPage County received one bid for the Armstrong Park Project and it was significantly higher than the engineer's estimate. Engineering, DuPage County and the Park District will develop a plan to address the high bid and lack of bids. Mostly likely the bid will be rejected, the project re-engineered and rebid. A letter jointly signed by County Board Chairman, Mayor Saverino and Park Board President Powers has been sent to Governor Quinn and our legislators asking for their assistance in expediting permitting of the Armstrong Park Flood Control Project.

Assisted in the response to the April 13, 2013 flood, estimating flood damages and seeking grant funding for flood plain property buyouts.

Engineering and Finance met with IEMA to begin final close-out of Phase I of the buyouts. IEMA advised they may use some of our documentation procedures as models for their process. Staff provided this information to Addison for their use in their buyouts.

Completed the Flood Plain Structure Phase II Buyout Project overseeing the purchase and demolition of the fourth flood prone structure all in accordance with Federal Emergency management Agency (FEMA), State, Department of Commerce and Economic Opportunity (DCEO) and DuPage County regulations.

Working with DuPage County and the State a fifth flood plain structure buyout project has been approved.

Finished updating the "Base map" that contains all the base feature classes used for map generation. Using the base map, created and published the April 13, 2014 Flood Observed High Water Map and April 13, 2014 Flood Street Flooding Map.

Continued flood prevention and disaster preparedness efforts by:

- ◆ Providing information, maps and data requested by the Emergency operations center (EOC)
- ◆ Creating, printing and laminating EOC address maps
- ◆ Creating and printing the Observed High Water Map and the Street Flooding Map from the April 13, 2014 flood.
- ◆ Creating and printing the Fire Protection District Zone Map.
- ◆ Retained the Village's eligibility of disaster public assistance financial as well as Hazard Mitigation Grant Program (HMGP) and Department of Commerce and Economic Opportunity (DCEO) Community Development Block Grant (CDBG) funding through participation in the updating of the DuPage County Natural Hazard Mitigation Plan (NHMP) by: Completing the NHMP survey; and Providing review comments on the revised NHMP.
- ◆ Participating in the DuPage County Natural Hazard Mitigation Plan (NHMP) webinar
- ◆ Amending and adopting the Emergency Operations Plan
- ◆ Performing substantial damage determinations after the 2013 flood. Engineering submitted the report of substantial damage for the recent flood to the County and State.

Responded to storm water issues at several private storm facility locations:

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- ◆ Removed beaver debris blocking an outlet pipe at Kehoe and Kimberly detention area
- ◆ Removed trash and debris plugging the outfall at the Heritage Plaza Shopping Center
- ◆ Removed trash and debris plugging the outfall at Concord Point Townhome Association
- ◆ Removed possible beaver dam materials blocking the creek at the Carol Stream Park District's Evergreen Park

Removed beaver dams from the following locations, re-establishing flow and water levels and protecting stream shorelines:

- ◆ Culverts on Birchbark Trail (on two occasions)
- ◆ Community Park (north of Geneva Road)

Brush has been observed in the culverts under Gary Avenue that drain the large retention basin at Savers. Staff believes this may be the work of beavers. Staff is coordinating removal of this obstruction with DuPage County.

Engineering met with Corpus Christi Catholic Church to assist in determining the cause of higher than normal water levels in their detention basin. Debris was blocking the outlet. Engineering contacted the Church to have the debris removed and trim back reeds and trees around the outlet.

Engineering inspected several locations where stream or pond elevations appear higher than normal. Staff is working with DuPage County on the removal of several downed trees from Klein Creek downstream of American Sales and the Gary-Kehoe reservoir where there is an apparent blockage at the outlet. DuPage County lowered the water level with pumps. The obstruction was identified and safely removed.

Developed the scope of work for the Klein and Thunderbird Creek flow obstruction removal contract.

The following training sessions were attended:

- ◆ Creation of a General Certification for Elevation of an Existing Building in the Regulatory Flood Plain
- ◆ Current Storm Water Regulations and Policies – The Counservation Foundation
- ◆ DRSCW Chloride Reduction Workshop
- ◆ Green Infrastructure Symposium – The Conservation Foundation
- ◆ Managing Your Community's Storm water
- ◆ NFIP FEMA's 50% Rule – Substantial Improvement and Substantial Damage

The Village staffed the Emergency Operations Center and operations staff worked around-the clock during regional flood event occurring on April 13 – 14, 2014.

Staff provided a list of ten flood control, flood mitigation and stormwater management projects to the County for forwarding to the Governor. The Governor requested a list of potential projects.

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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 5 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. FEMA in cooperation with DuPage County and the Illinois State Water Survey (ISWS) has begun performing modeling studies to update the maps in DuPage County. Although the West Branch and all the tributaries in Carol Stream were not to be studied or the maps updated, they were revised. The Village reviewed the revised maps and provided comments to all three agencies. In addition Village staff is actively involved in the DuPage Mayors and Managers Conference Review Group that has been monitoring, reviewing and commenting on the process. Working with the DuPage Mayors & Managers Conference a request has been made to FEMA to extend the flood plain mapping process to allow adequate time for municipal concerns to be addressed.

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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.*

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

**PUBLIC EDUCATION & OUTREACH**

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

Distribute the Village Newsletter, Happenings and 1 brochure.

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

Send invitations for 1 speaking engagement.

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

Prepare and release 1 public service announcement.

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

Plan, organize and conduct 1 community event.

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

Update the storm water web page if needed.

**PUBLIC INFORMATION/INVOLVEMENT**

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

Attend 1 stakeholder meeting.

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

Conduct 1 public hearing or meeting.

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

Review and if needed update the Village's Storm Water Management Program.

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

Create 1 opportunity for public involvement in storm water activities.

**ILLICIT DISCHARGE DETECTION & ELIMINATION**

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

Complete 20% of the public and private storm sewer network as a GIS map.

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

Review and if needed amend the Illicit Discharge Detection and Elimination Ordinance.

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

Provide all individuals/parties responsible for an illicit discharge with educational materials and/or instructions.

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

Compare the number of illicit discharges removed against number traced to source, review procedures and amend as necessary.

**CONSTRUCTION SITE RUNOFF CONTROL**

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

If needed amend the Village Storm Water Ordinance.

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

Review SWPPPs for compliance with the Village's Storm Water Ordinance and document number of reviews.

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

Process CSRs involving storm water complaints.

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

Perform and record SWPPP site inspections and where a violation exists seek to gain voluntary compliance. If necessary proceed with enforcement actions.

**POST CONSTRUCTION RUNOFF CONTROL**

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

If needed amend the Village Storm Water Ordinance.

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

Require and accept storm water management and conveyance easements per the Village's Storm Water Ordinance and document the number of acceptances.

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

Review site plans for BMP compliance with the Village's Storm Water Ordinance and document number of reviews.

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

Perform and record construction BMP site inspections and where a violation exists seek to gain voluntary compliance. If necessary proceed with enforcement actions.

**POLLUTION PREVENTION/GOOD HOUSEKEEPING**

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

Inspect and clean 50 catch basins and vacuum sweep each street 8 times per year.

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***F.3: Municipal Operations Storm Water Control***

Utilize both pre-wetting and anti-icing measures and document quantities.

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

Properly dispose of waste, debris, trash, spoils, etc. and document quantities.

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

If needed amend the Village Storm Water Ordinance.

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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**

Listed below are the following Village construction projects, some of which required an IEPA Construction ILR10 permit. However, some only required a DuPage County Stormwater management permit but all required soil erosion and sedimentation control measures.

<b>Location</b>	<b>Start Date Est. Comp. Date Description</b>
Klein Creek Flood Plain Structure Phase II Buyout & Demolition Project	3/2013 10/2013 Purchase and demolish one repetitive flood damaged structure and restore site to permanent open space.