
Annual Facility Inspection Report – Section B

Year 12 of NPDES Permit No. ILR400308

Village of Carol Stream, 3rd Notice of Intent (Year 1)

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 1 Milestones

Distribute the Village Newsletter, Happenings and 1 brochure.

Summary of Accomplishments

Village Staff distributed and made the following informational material available:

- ◆ *Adopt-a-Stream Program – DuPage County Stormwater Management Division*
- ◆ *Annual Recycling Event*
- ◆ *Backyards for Wildlife – The Conservation Foundation*
- ◆ *Backyard Composting Regulations*

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- ◆ *“Be Part of Carol Stream’s New Comprehensive Plan!” public information flyer*
- ◆ *Christmas Tree Pick Up Service*
- ◆ *Construction Underway on Klein Creek Flood Mitigation Project*
- ◆ *Controlled burns scheduled by the Village*
- ◆ *County to host public hearing about federal disaster recovery plan*
- ◆ *Discounted Leaf Sticker Use Period*
- ◆ *Document Shredding – Wayne Township*
- ◆ *DuPage County Board Approves Klein Creek Project*
- ◆ *DuPage County Hosts Deicing Workshop*
- ◆ *DuPage County 2014 free document shredding, October 25 for DuPage County & Village of Carol Stream Residents*
- ◆ *DuPage County Public Hearing on HUD Funding*
- ◆ *DuPage Hosts Public Hearing Aug. 26 Regarding \$18.9 Million in Federal Flood Recovery Funding*
- ◆ *3.5 million to assist in the construction of the Klein Creek watershed flood control project at Armstrong Park in Carol Stream*
- ◆ *DuPage River Coalition Meetings Open to the Public*
- ◆ *eCycle – Protect your environment*
- ◆ *Earth Day Festival & Farmers Market*
- ◆ *Electronics Curbside Disposal and Landfill Ban*
- ◆ *Energy Efficiency Workshop for Homeowners – Hosted by S.C.A.R.C.E.*
- ◆ *Environmental initiatives relating to climate change – hosted by League of Women voters – Chris Oakley*
- ◆ *Environmental Web Portal*
- ◆ *Free Computer Recycling Com2 Computer, 140 Fullerton*
- ◆ *Free Document Shredding*
- ◆ *Free 2-Week Holiday Tree & Greenery Collection January 2nd - January 16th*
- ◆ *Free Leaf Pick Up Week – 11/17/14 – 11/21/14*
- ◆ *Greening your Holidays*
- ◆ *Hanover Park Recycling Event – September 27th, 2014*
- ◆ *Holiday Lights Recycling Program Begins Monday, November 17th*
- ◆ *Holiday Lights Recycling Program deadline is Monday, February 2.*
- ◆ *Household Hazardous Waste – Drop Off Location – Naperville Public Works*
- ◆ *Humanitarian Service Project Paper Drive*
- ◆ *Work on Klein Creek Flood Mitigation Project Progressing*
- ◆ *Klein Creek Flood Mitigation Project Resuming this Spring*
- ◆ *Last week to use Fall Leaf Stickers and Dispose of Other Yard Wastes*
- ◆ *Leaf collection stickers available*
- ◆ *National Take Back Initiative Collection Site Search*
- ◆ *Open House is being planned at the WRC on Saturday, October 4th from 10:00 AM to 2:00 PM*

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- ◆ *Outdoor Water Use – DuPage Water Commission*
- ◆ *Paint & Carpeting Recycling – DuPage County Government Center*
- ◆ *Parking Lots & Sidewalks Winter Deicing Workshop*
- ◆ *Pond & Stream Sweep – May 17th*
- ◆ *Pond Sweep “Thank You”*
- ◆ *Public Roads Winter Deicing Workshop*
- ◆ *Public Works plays host at reclamation plant*
- ◆ *Rain Barrel Workshop – May 14th – Fountainview Rec. Center*
- ◆ *Raking leaves into the Street or Curb is Prohibited*
- ◆ *Recycling Guide*
- ◆ *Recycling & Document Shredding Event, September 27th*
- ◆ *Recycle Your Holiday Cooking Oil on Saturday, November 29th at the Village Hall*
- ◆ *Recycle your Holiday Lights*
- ◆ *Regional Household Hazardous Waste Facility – City of Naperville*
- ◆ *Recycling drug program available all year long*
- ◆ *Rx Take Back Saturday Event, September 27th*
- ◆ *Rx Box Disposing Meds Safely – DuPage County Health Department*
- ◆ *Six Week Fall Leaf Sticker Use Period Begins Monday, October 13th*
- ◆ *Snow & Ice Plan 2014 -2015*
- ◆ *Village to host open house at Water Reclamation Center*
- ◆ *Yard Waste Transfer Station*
- ◆ *Village of Carol Stream Earth Day Recycling Event*
- ◆ *Village recognized for its conservation efforts*
- ◆ *Village already looking to next winter season – 2015/2016 Salt purchase*
- ◆ *Village Administrative Office Closings & Upcoming Refuse Collection Holidays*
- ◆ *Village work projects benefit from weather.*
- ◆ *Village to host energy efficiency workshop for homeowners – May 7th, 2015*
- ◆ *Volunteers needed for local environmental clean-up event – May 16th, 2015*
- ◆ *Water Quiz How Much Water Do You Use? – DuPage Water Commission*
- ◆ *Water Reclamation Center Open House to include a Helicopter Landing*
- ◆ *Water Restrictions – Odd-Even In Effect Year Round*
- ◆ *West Chicago Prairie – Forest Preserve District of DuPage County*
- ◆ *West Branch DuPage River Work Enters Final Stage*
- ◆ *Winfield Creek Stakeholder Group Meeting on June 25.*
- ◆ *Winter Snow Season Policies*

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

- ◆ *Comprehensive Plan for Carol Stream.*
- ◆ *Document Shred for Residents*
- ◆ *2015 Earth Hour*
- ◆ *Earth Day Fair & Farmers Market*
- ◆ *Earth911.com is your 1-Stop Web Portal for Recycling/Reuse Opportunities*
- ◆ *Electronics Curbside Disposal & Landfill Ban*
- ◆ *Flow Obstruction Work to Begin – Stream Bank Contractor to begin the week of May 5th*
- ◆ *Holiday Lights Recycling*
- ◆ *Holiday Lights Recycling - Deadline*
- ◆ *Independence Day Parade, Concert and Fireworks*
- ◆ *Klein Creek Flood Mitigation Project Update.*
- ◆ *Klein Creek Flood Mitigation Project Hits Construction Milestones*
- ◆ *Klein Creek/Armstrong Park Storage Reservoir & Pump Station*
- ◆ *Leaf Stickers – Discounted Leaf Stickers and Use Period.*
- ◆ *National Nite Out*
- ◆ *New Home of Household Haz. Waste Facility*
- ◆ *Notice of Sanitary Sewer Rehabilitation*
- ◆ *Parkway Tree Maintenance Update*
- ◆ *Plan Commission/ZBA Public Hearing Notices*
- ◆ *Pond Sweep Volunteers Needed*
- ◆ *Pond & Stream Sweep “Thank You”*
- ◆ *Raking Leaves into Curb/Street is Prohibited*
- ◆ *Recertified Storm Ready*
- ◆ *Recycling & Document Shredding Event.*
- ◆ *Recycling of Holiday Lights*
- ◆ *Recycle Prescription and Over the Counter medications*
- ◆ *Road Salt Conservation*
- ◆ *RX Box Disposing Meds Safely – Carol Stream*
- ◆ *RX Recycle 24/7/365 @ Carol Stream Police Department*
- ◆ *Salt Conservation Measures*
- ◆ *September is National Preparedness MonthShoes for Recycling*
- ◆ *Snow Removal Plan*
- ◆ *Snow & Ice Plan*
- ◆ *Thanksgiving Cooling Oil Recycling Event*
- ◆ *Village Invites the Community to the Upcoming Public Visioning Workshop*

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- ◆ *Village to Update Land Use Plan*
- ◆ *Village receives low salt award*
- ◆ *Recycle your old shoes*
- ◆ *Yard Waste Sticker Locations*
- ◆ *Water Conservation*
- ◆ *Watering Restrictions – Outdoor Watering Restrictions in Effect Year Round*
- ◆ *Wayne Township Reuse and Recycle Event – May 31st, 2014*
- ◆ *Winter Storm Water Quality*
- ◆ *Yard Waste Service Resumes April 7th Collection Week*

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

- ◆ *Comprehensive Plan Survey*
- ◆ *Concerts in the Park, Free*
- ◆ *Earth Day Recycle Event*
- ◆ *Fall Leaf stickers*
- ◆ *Fall Leaf Pick-Up Scheduled for the November 17th Collection Week*
- ◆ *Free Commercial Document Shredding Event*
- ◆ *Gary Avenue Reconstruction Project – DuPage County Website Provides Updates, www.dupageco.org/DOT/Road_Construction/46125/*
- ◆ *Holiday Lights Recycling*
- ◆ *Holiday Tree & Greenery Collection*
- ◆ *Independence Day Parade, Concert & Fireworks*
- ◆ *Klein Creek Flood Mitigation Project – DuPage County Website provides updates at www.dupageco.org/EDP/Stormwater_Management/Projects/31397/*
- ◆ *Klein Creek Flood Mitigation Project in Armstrong Park Moving Forward*
- ◆ *Latex Paint Recycling Program*
- ◆ *Mosquito Control in your Backyard*
- ◆ *National Nite Out*
- ◆ *Outdoor Composting*
- ◆ *Outdoor Watering Restrictions in Effect Year Round – Help Preserve Every Drop*
- ◆ *Parade Committee Hosts Dine-In Fundraiser*
- ◆ *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*
- ◆ *Recycling Extravaganza – Wheaton, Saturday, April 11th, 2015*
- ◆ *Residential Yard Waste Collection Service Resumes Monday, April 6th, 2015*

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- ◆ *Summer Concert Series*
- ◆ *Summer Carnival at the Town Center*
- ◆ *Tornado Preparedness Week – Disaster Preparedness Saves Lives article*
- ◆ *Vehicle Registration dead line, Monday, June 30th*
- ◆ *Village Board Approves Road Salt Conservation Measures*
- ◆ *Village Steps up Response to Ash Borer*
- ◆ *Volunteers Needed for May 16th Pond Sweep Environmental Clean Up Event*
- ◆ *Wayne Township Recycling Event*
- ◆ *Wheaton Recycling & Document Shred Event*
- ◆ *Yard Waste Service Resumes the April 6th, 2015 Collection Week*

The following water billing messages were sent out:

- ◆ *Annual Pond & Stream Sweep*
- ◆ *Yard Waste Pickup Resumes*
- ◆ *Document Shredding Event – Sat, October 25th*
- ◆ *Earth Hour – On Sat., March 29*
- ◆ *FREE Leaf Pick Up Scheduled for the Nov. 17th – 21st Refuse Collection Week*
- ◆ *Holiday Lights Recycling*
- ◆ *Recycle & Document Shred Event – May 31st*
- ◆ *Recycling Event – Sat., Sept. 27th*
- ◆ *Water Reclamation Center – Open House*
- ◆ *Free Christmas Tree & Wreath Pick Up Jan. 2nd – 17th*

The following topics had tweets on the Village's Twitter account ([twitter@carol_stream](https://twitter.com/carol_stream)):

- ◆ Residential Yard Waste Collection Resumes
- ◆ City of Wheaton Hosts Regional Document Shredding Event
- ◆ DuPage Conservation Found. Sells Rains Barrels @ Local Earth Day Event
- ◆ Village Seeks Volunteers for May 2014 Pond Sweep Event
- ◆ DuPage Stormwater Committee Meets to Recommend Approval of
- ◆ Klein Creek Flood Mitigation Project in Armstrong Park
- ◆ DuPage County Board Approves Klein Creek Flood Mitigation Project
- ◆ West Chicago hosts regional document shredding event
- ◆ DuPage County begins seasonal latex paint recycling program
- ◆ Klein Creek Flood Control Project Begins
- ◆ Use coal-tar free sealant when seal coating your driveway
- ◆ Hanover Park to host Fall Recycling Extravaganza

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- ◆ Eco-Friendly Driveway Sealant Projects – Look for Green Seal of Approval
- ◆ Energy Impact Illinois – Energy efficiency program incentives available
- ◆ Hanover Park hosts regional Document Shredding Event
- ◆ Recycling your RX at 3 local Police Depts. this coming Saturday
- ◆ Backyard Composting Workshop Registration Underway
- ◆ Best Stormwater Practice: No Raking Leaves into the Street/Curb
- ◆ Village to Host regional Document Shredding Events on Oct. 30th
- ◆ Take the DuPage County Stormwater On-line Survey
- ◆ Recycle your Halloween Pumpkins in Wheaton
- ◆ Holiday Lights Recycling Program Kicks Off
- ◆ Electronics Curbside Recycling Ban – Citizen Reminder
- ◆ Free Holiday Tree & Wreath Collection
- ◆ DuPage County Stormwater Encourages Eco-Friendly Snow Shoveling
- ◆ Naperville Household Hazardous Waste Drop Off Site moves to new location

The posted the following topics on its corporate Facebook page ([FACEBOOK@VilofCarolStream](#)):

- ◆ Village Newsletter: Recycling & Doc Shred Event & Yard Waste Pickup Resumes
- ◆ Village Newsletter: Recycling Extravaganza
- ◆ Village Hosts Civic Group Tour of the Water Reclamation Center
- ◆ Tree Watering Bags promote tree health & conserve water.
- ◆ Klein Creek Flood Mitigation Project – Update 1
- ◆ Village Hosts Annual Fall Open House at the Water Reclamation Center
- ◆ Village Code Prohibits Raking Leaves into the Street/Curb
- ◆ Klein Creek Flood Mitigation Project – Update 2
- ◆ Recycle Your Turkey Frying Oil in Wheaton
- ◆ Recycle Your Holiday/Christmas Light Strands
- ◆ Recycle Your Holiday Tree, Wreaths & Other Greenery
- ◆ Practice Eco-Friendly Snow Shoveling (DuPage County VIDEO)
- ◆ Village Newsletter: Wintertime Best Storm Water Quality Practice
- ◆ Klein Creek Flood Mitigation Project – Update 3
- ◆ Household Hazardous Waste Collection Facility Moves to New Home
- ◆ Village to Celebrate Earth Hour by Turning off Unnecessary Building Lighting
- ◆ Village Newsletter: Yard Waste Service Resumes & Wheaton Recycling Event
- ◆ Klein Creek Flood Mitigation Project – Update 4

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The Village Board adopted the following proclamations and resolutions:

- ◆ *2014 DuPage River Sweep, Proclamation*
- ◆ *Proclamation Celebrating Earth Hour 2015*
- ◆ *Proclamation Declaring April 22nd as Earth Day.*
- ◆ *Proclamation Declaring April 24th as Arbor Day.*
- ◆ *Low Salt Community Award*
- ◆ *Proclamation Supporting The Conservation Foundation's Conservation in our Community Program and the 2015 Tree Replacement Program.*
- ◆ *Earth Hour, March 29th, 2014 8:30 pm – 9:30 pm*
- ◆ *September 27th Prescription Drug Take Back Day*

The DuPage River Salt Creek Workgroup prepared and distributed the following:

- ◆ *A Water Resource Guide to Bioassessment*
- ◆ *2014 Public Roads Deicing Questionnaire*

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 1 Milestones

Send invitations for 1 speaking engagement.

Summary of Accomplishments

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.

Village Engineer presented the Chloride Reduction Program to the DRSCW.

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The Public Works Superintendent of Operations attended and served as a presenter at the Will County/South DuPage Deicing Workshop in New Lenox

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.

Assistant to the Village Manager, Chris Oakley, made a presentation to the League of Women Voters on Environmental Initiatives relating to climate change.

Village Engineer, Jim Knudsen, and Assistant Village Engineer, Bill Cleveland, gave a presentation on the Village's program for pond shoreline, stream bank and wetland restoration to the Municipal Engineers Group.

The DRSCW hosts bimonthly meetings where technical presentations are made on a variety of water quality topics and surface water management subjects. The audience consists of mainly stormwater and wastewater professionals but the general public is also welcome to attend. Presentations made are listed below:

- ◆ DRSCW White Paper Proposal: Special Conditions & Implementation Plan – April 30, 2014
- ◆ Adaptive Management Plan to improve aquatic life and implement TMDLs on the main stem lower Salt Creek – June 25, 2014
- ◆ Development of Ammonia Mass – Balance techniques: Web based load duration curve system and lower East Branch analysis – June 25, 2014
- ◆ Reducing Urban Phosphorus Load: Identifying Sources and Controls – August 27, 2014
- ◆ 2012 Bioassessment Study of the Lower DuPage River Watershed – August 27, 2014
- ◆ Chloride Monitoring Results and TMDL Implementation Update – October 29, 2014
- ◆ Fawell Dam - Preliminary Assessment – October 29, 2014
- ◆ Winnetka Refined Coal Tar Ban – December 10, 2014
- ◆ TMDL Development for the DuPage River/Salt Creek - The Illinois Environmental Protection Agency - Watershed Management Section/Planning (TMDL) Unit – December 10, 2014
- ◆ Continuous Dissolved Oxygen Monitoring Workshop for Participating Agencies – March 4, 2014
- ◆ National webinar for stormwater BMPs on transportation infrastructure hosted by US EPA. The Illinois Toll Highway Authority invited the DRSCW to co-present regarding the chloride offset program MOU – March 6, 2014
- ◆ Prairie River Group of the Sierra Club. PAHs and Coal Tar sealants – March 10, 2014
- ◆ WATERCON 2014 hosted by the Illinois Section American Water Works Association &
- ◆ Illinois Water Environment Association. White Paper Proposal and Chloride Offset Model – March 18, 2014
- ◆ Illinois 2014 Rivers and Streams Meeting, Milan, IL. Causal analysis and Prioritizing Projects – April 2, 2014
- ◆ Iowa APWA Conference. Chlorides and Watershed Management – April 3, 2014
- ◆ Forest Preserve District of DuPage County Urban Stream Research Center Open House. Ambient and wastewater chemistry – August 2, 2014
- ◆ Public Roads Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL – September 25, 2014

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- ◆ Managing Snow and Ice Control Operations, University of Wisconsin-Madison; Winter Maintenance and Environmental Impacts - Winter Maintenance and Environmental Impacts – October 7, 2014
- ◆ Parking Lots & Sidewalks Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL – October 9, 2014
- ◆ Lower DuPage River Watershed Coalition’s Deicing Workshops. Regulations related to salt management, New Lenox, IL – October 16, 2014
- ◆ US EPA/ FHWA National Webinar on Chloride Management. Co-Presented with DuPage County Division of Transportation, Wheaton, IL – November 6, 2014
- ◆ Salt Spreader Calibration Workshop at DuPage County Division of Transportation, Wheaton, IL – November 18, 2014
- ◆ Lower DuPage River Watershed Coalition. DRSCW Project Funding Proposal & Other DRSCW Activities, Plainfield, IL – November 20, 2014
- ◆ DuPage County Environmental Summit. Current River Conditions and the Challenges we Face, Naperville, IL – February 19, 2015
- ◆ Illinois Lakes Management’s Annual Conference, DRSCW Formation and Organization, DeKalb, IL – February 19, 2015
- ◆ Illinois Water Environment Association’s Annual Conference, DRSCW Formation and Organization, Champaign, IL – February 24, 2015

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 1 Milestones

Prepare and release 1 public service announcement.

Summary of Accomplishments

The Village prepared and distributed numerous News Releases that included:

- ◆ *Free Document Shred Event hosted by DuPage County and Choose DuPage*
- ◆ *Free Leaf Pick Up Week of November 17th, 2014*
- ◆ *Leaf Stickers – Use Discounted Leaf Stickers & Save.*
- ◆ *Annual Pond & Stream Sweep*
- ◆ *Post-Thanksgiving Cooking Oil Recycling Drop Off Event*
- ◆ *Recycle your broken holiday lights*

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- ◆ *Use Discounted Leaf Stickers & Save*
- ◆ *Yard Waste Service Resumes the April 7th Collection Week*
- ◆ *Free Fall Leaf Pick-Up Scheduled for the Nov. 17th Collection Week*
- ◆ *Recycling Your Broken Holiday Light Strands thru Monday, February 2nd*
- ◆ *Outdoor Watering Restrictions in Effect Year Round*

The following articles were in the local newspapers:

- ◆ *16th Annual Pond & Stream Sweep*
- ◆ *Armstrong Park Project Update given to board*
- ◆ *Bud's Run*
- ◆ *Carol Stream Relay for Life Event*
- ◆ *Carol Stream Savers Recycles, Supports Nonprofits*
- ◆ *Carol Stream takes steps to conserve salt supply*
- ◆ *Earth Day a chance for residents to stand up for environment*
- ◆ *Flood Control Project Moves Forward*
- ◆ *Free Leaf Pick up set for week of November 17th*
- ◆ *Friends of the Earth – Carol Stream Earth Hour*
- ◆ *Leaf Collection Stickers Available*
- ◆ *Police recognized during Traffic Safety Challenge*
- ◆ *Pond and Stream Sweep May 17th, volunteers needed*
- ◆ *Join us of the annual Pond & Stream Sweep Event on Saturday, May 17th, 2014*
- ◆ *Post-Holiday Recycling Event Relay for Life Event*
- ◆ *Summer in the Center concert series*
- ◆ *Tree Planting underway in Carol Stream*
- ◆ *Village offers drug disposal drop box plan*
- ◆ *West Branch DuPage River Watershed Focus Group*

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

- ◆ *2nd Annual Green Fair*
- ◆ *Computer Recycling – Com2 Computer*
- ◆ *Consumer Electronics Landfill Ban in Effect*
- ◆ *Document Shredding*
- ◆ *DuPage River Coalition Meetings Open to the Public*
- ◆ *Earth Day Festival & Farmer's Market*
- ◆ *Earth Hour 2015 – Saturday, March 28th 2015*
- ◆ *Electronic Recycling Event*

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- ◆ *Electronic Landfill Ban*
- ◆ *Energy Efficiency Workshop for Homeowners*
- ◆ *Environmental Web Portal*
- ◆ *Free Electronics Recycling*
- ◆ *Free Holiday Tree & Wreath Collection*
- ◆ *Free Residential Paint Recycling*
- ◆ *Great Western Trail Clean Up*
- ◆ *Holiday Cooking Oil Recycling Drop Off*
- ◆ *Holiday Lights Recycling*
- ◆ *Household Hazardous Waste Disposal*
- ◆ *New Location Household Hazardous Waste Drop Off*
- ◆ *No Raking Leaves into Curb – Street Flooding*
- ◆ *Outdoor Water Restrictions*
- ◆ *Paint Recycling*
- ◆ *Public Notice – Controlled Burns*
- ◆ *Pond Sweep Volunteers Needed – Saturday, May 17th, 2014*
- ◆ *Rain Harvesting Workshop*
- ◆ *Recycling RX at Village Hall, Police Department*
- ◆ *Stream Sweep Volunteers Needed*
- ◆ *Recycling Event*
- ◆ *Recycle Wayne Township Admin Center*
- ◆ *Recycle Holiday Greenery*
- ◆ *Recycle Holiday Lights*
- ◆ *Village Code Prohibits Raking Leaves into Curb; Clogged Storm Drains will cause street flooding; Clear fallen leaves from storm inlets.*
- ◆ *Water Reclamation Center – Open House*
- ◆ *Water Regulations – Odd / Even addresses*
- ◆ *Wayne Township Recycling Event*
- ◆ *Yard Waste Pick Up Resumes April 6th*

The following Gary Avenue electronic sign messages were broadcasted:

- ◆ *2nd Annual Green Fair*
- ◆ *Computer Recycling – Com2 Computer*
- ◆ *Consumer Electronics Landfill Ban in Effect*
- ◆ *Document Shredding*
- ◆ *DuPage River Coalition Meetings Open to the Public*
- ◆ *Earth Day Festival & Farmer's Market*

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- ◆ *Earth Hour 2015 – Saturday, March 28th 2015*
- ◆ *Electronic Recycling Event*
- ◆ *Electronic Landfill Ban*
- ◆ *Energy Efficiency Workshop for Homeowners*
- ◆ *Environmental Web Portal*
- ◆ *Free Electronics Recycling*
- ◆ *Free Holiday Tree & Wreath Collection*
- ◆ *Free Residential Paint Recycling*
- ◆ *Great Western Trail Clean Up*
- ◆ *Holiday Cooking Oil Recycling Drop Off*
- ◆ *Holiday Lights Recycling*
- ◆ *Household Hazardous Waste Disposal*
- ◆ *New Location Household Hazardous Waste Drop Off*
- ◆ *No Raking Leaves into Curb – Street Flooding*
- ◆ *Outdoor Water Restrictions*
- ◆ *Paint Recycling*
- ◆ *Public Notice – Controlled Burns*
- ◆ *Pond Sweep Volunteers Needed – Saturday, May 17th, 2014*
- ◆ *Rain Harvesting Workshop*
- ◆ *Recycling RX at Village Hall, Police Department*
- ◆ *Stream Sweep Volunteers Needed*
- ◆ *Recycling Event*
- ◆ *Recycle Wayne Township Admin Center*
- ◆ *Recycle Holiday Greenery*
- ◆ *Recycle Holiday Lights*
- ◆ *Village Code Prohibits Raking Leaves into Curb; Clogged Storm Drains will cause street flooding; Clear fallen leaves from storm inlets.*
- ◆ *Water Reclamation Center – Open House*
- ◆ *Water Regulations – Odd / Even addresses*
- ◆ *Wayne Township Recycling Event*
- ◆ *Yard Waste Pick Up Resumes April 6th*

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

- ◆ *Strategic Goals*
- ◆ *Thank You for Your Community Service*

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DRSCW public service announcements included:

- ◆ The DRSCW website (www.drscw.org) was maintained during the reporting period and periodically updated with presentations and material.
- ◆ The DRSCW published on the website and distributed a fall 2014 newsletter, which included the IGIG award announcement (which was later frozen); articles on Michigan DOT's Bounce and Scatter Study, Low Cost Ways to Reduce Salt Use; Rethinking Winter Roads Policy in Carol Stream; Evaluation of Leaf Collection Programs as a Means to Reduce Phosphorus Loads from Urban Basins.
- ◆ Public information available on the website includes:
 - Chloride Fact Sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
 - Application guidance worksheet for commercial parking lot winter deicing.
 - A fact sheet summarizing the characteristics of alternative deicing products.
 - Phase diagrams for the most common chloride compounds used in winter maintenance.
 - 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.
 - Detailed reports on the biological and chemical conditions of area waterways

DuPage County "Currents" Stormwater Management articles included:

- ◆ Construction of Reservoirs at Klein Creek Project Complete
- ◆ SWM continues to meet with Stakeholders
- ◆ Klein Creek Flood Mitigation Project in Carol Stream's Armstrong Park – construction underway
- ◆ Village of Carol Stream's pond shoreline, stream bank and wetland restoration presentation by Jim Knudsen and Bill Cleveland.
- ◆ Wetland Restoration Work to be completed this month – July 2014
- ◆ Winfield Creek Stakeholder Group Meeting

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 1 Milestones

Plan, organize and conduct 1 community event.

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Summary of Accomplishments

The Village held its annual Pond & Stream Sweep on Saturday, May 17th, 157 volunteers, 18 groups removed 6,280 lbs. of trash and debris from 20.17 miles of shorelines along 22 ponds and stream sections. Our Pond & Stream Sweep was held in coordination with The Conservation Foundation and the DuPage County Stormwater Management Division.

The Village hosted an Open House at the Water Reclamation Center (WRC) attended by over 250 people. The event included guided tours of the plant, educational demonstrations in the lab, storm water and environmental information tables staffed by representatives of The Conservation Foundation, Library District and representatives of a proposed landscape waste transfer station facility. Materials were also made available by the provider of local mosquito abatement services (Clarke).

The Adopt-A-Highway program utilized volunteers from five (5) community organizations to perform fifteen (15) cleanings removing trash from twenty-one (21) miles of roadways.

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 1 Milestones

Update the storm water web page if needed.

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 the 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 public educational activities:

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- ◆ The online stream resource searchable database with information on local aquatic biodiversity, habitat, sediment and water column chemistry was updated.
- ◆ The online data viewer and searchable database, indicating monitoring locations throughout the three basins, was updated to include data from the Lower DuPage River Watershed Coalition.
- ◆ A draft Ambient Monitoring Data Analysis – 2013-2014 Winter Season was received and is under review.

The Village hosted an Open House at the Water Reclamation Center (WRC) attended by over 250 people. The event included guided tours of the plant, educational demonstrations in the lab, storm water and environmental information tables staffed by representatives of The Conservation Foundation, Library District and representative of a proposed landscape waste transfer station facility. Materials were also made available by the provider of local mosquito abatement services (Clarke).

Public Works hosted a local Boy Scout Troop to discuss the importance of preparedness against potential flooding. The Boy Scouts also were instructed on the uses of sandbags and the proper method of making sandbags. The Troop then spent about an hour making and staking sandbags for use by Public Works.

PUBLIC INFORMATION/INVOLVEMENT

B.3: Stakeholder Meeting

Goals

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

Year 1 Milestones

Attend 1 stakeholder meeting.

Summary of Accomplishments

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

- ◆ Amended County Flow Charts
- ◆ Fawell Dam fish passage project update

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- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Forms for Stormwater Permitting
- ◆ NPDES Annual Report
- ◆ Oak Meadows Project Update
- ◆ Performance and Capacity of Compost Biofilters in Urban Runoff and Green Infrastructure
- ◆ Proposed Waters of the US Rule – Open Public comment period
- ◆ River Sweep and Adopt-a-Stream Program thru The Conservation Foundation
- ◆ Stormwater Management Public Outreach – Detention Basin Workshop
- ◆ Utility Projects with Multiple Permitting Jurisdictions
- ◆ URETEK Seminar – Structural Polyurethane Injection
- ◆ DuPage County Stormwater Management Program

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

- ◆ 2012 West Branch Basin Assessment – Presenter: Chris Yoder, Research Director, Midwest Biodiversity Institute
- ◆ Chloride Reduction Committee
 - 2014 Public & Private Deicing Workshops
 - 2014 Questionnaire
 - Prepared Private Storage Ordinances
- ◆ DO sonde deployment for 2014
- ◆ DRSCW Calendar, Presentations and Press Coverage (new business); A spring/summer newsletter, During the last two months workgroup presentations were made from the Sierra Club (Coal Tar Sealants, US EPA and the Tollway (Chlorides, Lake County Stormwater Management (watershed management and organization), APWA (chlorides and water quality) and WATERCON (White Paper proposal).
- ◆ DRSCW Calendar, WEFTEC 2015 – Submitted a proposal for track on “Stream Geomorphology and Restoration 101” in collaboration with Seth Brown, WEFTEC, Bob Hawley, Sustainable Streams and Jonathan Koepke, ENCAP.
- ◆ DRSCW presented “Winter Maintenance and Environmental Impacts”
- ◆ DRSCW delivered two presentations on regulations related to salt management.
- ◆ DRSCW participated in a US EPA national webinar on chloride management
- ◆ 2014 East Branch DuPage River Assessment update
- ◆ DRSCW and DuPage County DOT presented information on chloride management – webinar
- ◆ DRSCW prepared The Resource Managers Guide to Bioassessment
- ◆ DRSCW presented information on current river conditions and the challenges we face
- ◆ Watershed Management presentation at the Illinois Lakes Management Association’s annual conference
- ◆ DRSCW presented at the Illinois Water Environment Association’s annual conference

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- ◆ TMDL Development for the DuPage River/Salt Creek
- ◆ Winnetka Refined Coal Tar Ban

Village Staff attended and participated in these following other meetings:

- ◆ DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Project status meetings
- ◆ Met with resident at 619 Arrowhead Trail to address construction of earthen dam that is part of the Klein Creek Flood Mitigation Project in Armstrong Park.
- ◆ Staff met to discuss a residents request to construct a driveway with an ecogrid paving product.
- ◆ Comprehensive Plan Project Steering Committee meetings. The final existing Conditions Report has been placed on CMAP's website.
- ◆ Planning for 2020-Assessing the Needs of Businesses in Carol Stream's Industrial Park meeting
- ◆ Meetings for The Conservation Foundation's (TCF) Conservation in our Community Program
- ◆ Meeting for 14-unit-1.7 acre townhome development on unincorporated property on the north side of St. Charles just east of President
- ◆ DuPage County Stormwater staff presentation on their Program Assessment for Stormwater Management
- ◆ April 15th Economic Event
- ◆ Staff met to discuss enforcement options for the proper maintenance of the storm water facility on the northeast corner of Kehoe/Kimberly.
- ◆ Executive Development Committee (EDC) met and reviewed plans for development of the northeast and southeast corners of Gary/Lies.
- ◆ May 7th The Conservation Foundation (TCF) will host an Inflow & Infiltration (I/I) Reduction Workshop at the Fountain View Recreation Center at 7:00 PM. The workshop is one element in our partnership in TCF's Conservation in our Community Program. The workshop will deal with illegal connections, poor drainage, applicable regulations and effective solutions. By design, Village staff will not attend the workshop to create a non-threatening environment that will foster voluntary compliance.

Village Staff met or corresponded with several prospective developers including:

Aldi Expansion; American Legion/Wheaton College Phase II; AT&T Mobile Communications Property; Stormwater Improvements in Armstrong Park; Armstrong Park Flood Control Reservoir Project; Brunswick Zone Property; Buchanan Energy; Bulldog Ale House; Burger King, ; C&C Power; Caputo's; Caputo's outlot development; Carol Stream Market Place – American Mattress; Carol Stream Park District – (Recreation Center & Community Park); Charter Fitness; Coyote Crossing in McCaslin Park; Community Park; CHAD – vacant property;; Comprehensive Plan Update; Convalescent home – 24W211 St. Charles Road; Public Visioning Workshop for the Comprehensive Plan Project; Countryside Animal Clinic; DuPage Auto Bath; DuPage County Armstrong Park Flood Control Reservoir; Pump Station and Siphon Projects; Property belonging to the Library; DuPage County Division of Transportation Gary Avenue Improvements; DuPage Water Conditioning; Fed Ex Ground Expansion; Economic Development event; Flood Brothers; Flying J Marketplace; Gary/Lies – northeast/southeast corners for development; 190 S. Gary; Geneva Crossing Phase II; Glendbard North; Green Organics – landscape waste transfer facility; Organic Soils; Home Depot; Hometown RV; Invensys Property; Jet- Brite Car Wash; Joe Cotton Ford; John & Tony's preannexation agreement expiration; 700-710 Kimberly; Kimberly Redevelopment – Auto Auction; Landscape Waste/Yard Waste Transfer Station – Kuhn Road – Don Oppermann and Dave Gravel; Landscape waste facility; Library property on Kuhn Rd.; ; Mercedes Benz; Manhattan Club; Medical Cannabis Dispensary; Mercedes Benz; Mobile Station; O'Reilly Auto Parts; Outreach Community Center; Owens and Minor Distribution Inc.; North Avenue (Travel Center);

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Packaging Personified; Pilot Travel Plaza, Pioneer Clubs, Prince Castle; Red Hawk Park Annexation; Red Rooster Shopping Plaza; Robertshaw Controls; Roy DeShane School; Royal Die & Stamping; S&S International; Scrap Metal Recycling; Senne Property; SE Corner Gary & Lies; School District 93; Sherwin Williams; S&S International, St. Charles Rd. Townhome Project, Vale & County Farm townhomes, Village's website; Walmart; Wheaton Christian Center

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 1 Milestones

Conduct 1 public hearing or meeting.

Summary of Accomplishments

The Village accomplished many tasks at Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests/PUDs/corridor submittals, 5 ordinance revisions, 1 lease agreement, 7 annexation agreements, 5 variations, 3 plats of subdivision, 2 grants of stormwater easements, 3 intergovernmental agreement (IGA) resolutions and these other following items:

- ◆ Armstrong Park Flood Control Project – On going project
- ◆ American Legion's request for expanded hours of use of their baseball field
- ◆ Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews
- ◆ Drainage Plans – 325 Fullerton Avenue
- ◆ Annexation of the DuPage Auto Bath Property
- ◆ DuPage County's Gary Avenue Project
- ◆ DuPage County's Stormwater Program Assessment Survey
- ◆ Green Organics held an informational meeting for the proposed Landscape Waste Transfer Facility

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- ◆ IGA with DuPage County – Cost Share a Portion of the Study to Create an Addendum to the Winfield Creek Watershed Plan.
- ◆ Illini Bridge replacement
- ◆ Landscape waste transfer facility was posted on the website
- ◆ Manhattan’s American Bar & Grill
- ◆ Medical Cannabis Dispensary
- ◆ Owens & Minor
- ◆ Park District Community Park
- ◆ Winfield Creek Watershed Study
- ◆ WRC hosted several classes over two days from Glenbard North.
- ◆ Public Works hosted two Glendale Heights employees interested in our brine making.
- ◆ WRC Open House
- ◆ Zoning Code Text Amendment
- ◆ 2015 Official Zoning Map
- ◆ 870 W. Army Trail Road – Termination of Special Use Permits
- ◆ 867 Forest to the Village – Donation of the vacant lot
- ◆ Village Board Workshop – Contract for operation of the WRC and proposed operating permit requirements for the WRC that address phosphorous.

Village staff also improved its notification procedures for public hearings.

Village’s Comprehensive Plan meeting flyers were distributed by the Chamber of Commerce.

Engineering Staff conducted an open house for its Schmale Road Water Main Replacement Project.

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 1 Milestones

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

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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 1 Milestones

Create 1 opportunity for public involvement in storm water activities.

Summary of Accomplishments

The Village held its annual Pond & Stream Sweep on Saturday, May 17th, 157 volunteers, 18 groups removed 6,280 lbs. of trash and debris from 20.17 miles of shorelines along 22 ponds and stream sections. Our Pond & Stream Sweep was held in coordination with The Conservation Foundation and the DuPage County Stormwater Management Division.

DuPage County Health Department recently announced the largest collection to date for its RxBox for unwanted medications. Nearly 3,400 pounds of medication were collected. In late of July 7.5 drums of medications were collected from our box in the Police Department. Over two drums of medications have been received since August 16th. This program has really caught on. From 2012 through 2014 our site has diverted 4,283 pounds of pharmaceuticals from the waste stream.

Flood Brothers as part of their College Environmental Awareness program had college students cleaning and picking up trash from Village roadways this summer. Their crews cleaned up Fullerton and Lies in the industrial section.

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DuPage County Sherriff's SWAP program performed a cleaning of Kuhn Road from St. Charles to Army Trail and Fair Oaks Road from Army Trail to North Avenue. Approximately 400 pounds of garbage was collected.

Carol Stream held many recycling events:

- ◆ Document Shredding Event at Town Center DuPage, County will host
- ◆ Free Document Shredding, Village of Carol Stream
- ◆ Recycling Holiday Cooking Oil
- ◆ Recycling Event– Village of Carol Stream – Electronic, Books, Athletic Shoes, Working Bikes, Document Shredding
- ◆ Recycling Event Village of Carol Stream – Document Shredding
- ◆ Recycling of Holiday Lights
- ◆ RX Box Disposing Meds Safely

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*

The Adopt-A-Highway program utilized volunteers from five (5) community organizations to perform fifteen (15) cleanups removing trash from twenty-one (21) miles of roadway.

The Village was given an award as a leading Low Salt Community by The Conservation Foundation in recognition of the Village's efforts to reduce the use of salt in winter operations and for assisting others in developing or improving their programs.

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.

The Village hosted an Open House at the Water Reclamation Center (WRC) attended by over 250 people. The event included guided tours of the plant, educational demonstrations in the lab, storm water and environmental information tables staffed by representatives of The Conservation Foundation, Library District and representative of proposed landscape waste transfer station facility. Materials were also made available by the provider of local mosquito abatement services (Clarke).

Public Works and OMI staff also hosted a tour of the WRC for a local Girl Scout troop.

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The Village Public Works Superintendent of Operations served as a presenter at the Will County/South DuPage Deicing Workshop in New Lenox.

Assistant to the Village Manager, Chris Oakley, made a presentation to the League of Women Voters on Environmental Initiatives relating to climate change.

Village Engineer, Jim Knudsen, and Assistant Village Engineer, Bill Cleveland, gave a presentation on the Village's program for pond shoreline, stream bank and wetland restoration to the Municipal Engineers Group.

The Village is an active participant in the DRSCW. Their public involvement and participation activities included:

- ◆ Dissolved Oxygen (DO) Monitoring – Ambient DO, ph, temperature and conductivity were measured at 11 sites under the continuous DO monitoring program. All DO data was collected under a Quality Assurance Plan agreed upon with IEPA1. A map of monitoring locations is given in Map 1. Sites were maintained by DuPage County, municipal and private environmental organization staff. Sondes are supplied to the program by DuPage County Stormwater Management and MWRDGC. DuPage County Public Works provides the program with sonde calibration and maintenance, in addition to coordinating summer and winter deployment. Data collected in this report is used to develop the DRSCW Bioassessment report for the watershed. The data is shared with IEPA for development and review of the 303(d) List.
- ◆ Bioassessment Monitoring – Bioassessment sampling was carried out in the East Branch DuPage River basin. A total of 35 sites (excluding DO sonde locations) were sampled for water column chemistry, sediment chemistry (at select sites), Fish IBI (Index of Biological Integrity) and macro invertebrate IBI, and Qualitative Habitat Evaluation Index (QHEI). The sediment and water column sampling parameters are listed in Table 1, sample site locations are shown in Map 1.
- ◆ Winter Chloride Monitoring – Winter chloride levels in the watersheds are monitored using continuous conductivity (a 2008 DRSCW study established a strong correlation between ambient winter conductivity and chloride levels in the Upper DuPage and Salt Creek Watersheds). Winter chloride levels were monitored at 5 locations during the winter of 2014-15 (hourly from December 2014 to March 2015). These locations are shown on map 1. Summer chloride concentrations were gathered under the surface water monitoring program outlined under bullet two.
- ◆ Data from the plan is used to produce the Bioassessment analysis, to identify and prioritize stormwater, wastewater and restoration projects. Data is shared with IEPA as requested for use in the state's 303(d) list. Reports for assessments for the period 2006-2012 are available on line at <http://drscw.org/>.

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 1 Milestones

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

Summary of Accomplishments

Collected and mapped the GPS coordinates for all water, sanitary and storm sewer structure in the Village. A request for proposal for the GIS Utility System Update & Implementation Project was prepared and a consultant selected.

Compiled the layout for the sanitary sewer and stormwater atlases.

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.

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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 1 Milestones

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

Summary of Accomplishments

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

- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Forms for Stormwater Permitting
- ◆ Proposed Waters of the US Rule – Open Public comment period

Village Engineer is an active participant in the DRSCW. The Monitoring Committee oversees monitoring of all three watersheds.

The Village also adopted a policy not to use products containing polyacrylamide hydrocarbons (PAHs) or coal tar sealants.

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 1 Milestones

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

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Summary of Accomplishments

Completed a project in sanitary sewer collection system basin #39 at a total cost of over \$175,000. The project was aimed at reducing sources of inflow and infiltration (I&I) based upon studies completed in prior year and preventing sanitary sewer overflows (SSOs). Work included lining of 1,300 feet of sewer pipe; removal of obstructions; chemical sealing and urethane grouting of manholes; lateral inserts; manhole resurfacing; manhole chimney lining.

The waste water treatment plant fully complied with its EPA discharge standards.

On April 25, 2014, the Village was notified of a potential illicit discharge originating on a property in Carol Stream located at 319 Fullerton Avenue. The property is owned by Flood Brothers Disposal/Recycling Services. Staff conducted a site visit there due to a report of possible oily runoff to the east and discovered several issues. 1) A small pickup truck on the property contained a small fuel tank in the truck bed and appeared to be actively used for fueling vehicles and/or equipment. There was obvious spillage on the ground and evidence of runoff travelling east of the area on the adjacent property where we first received the complaint. The owner was instructed to cease the operation immediately and remove the tank or truck from the site. 2) While on site staff also noted a septic odor. 3) We were also informed during our site visit that they routinely wash their garbage trucks in the rear yard area. They acknowledged that they make no effort to capture the runoff from the washing operation. I advised that I would be getting back to them with direction on what their responsibilities are. 4) The Village informed by DuPage County and IEPA representative Maureen Brehmer who made several visits to the site. Flood Brothers followed IEPA directions in terms of cleanup and operations modifications and indicated a desire to connect to Village sanitary sewer to address septic field issues, but as of this report they have not yet done so. Public Works and Engineering continue to monitor condition and activity of illicit discharge at the Flood Brothers Property on Fullerton. Remediation of environmental issues also continues.

On Tuesday, April 29, 2014, Carol Stream Public Works Superintendent of Operations observed a collection of what appeared to be grease and/or oil in and around a storm sewer catch basin in the southwest corner of a commercial property located at 148 Easy Street. Upon further inspection staff observed oil and/or grease mixed in with dirt over a large portion of the paved area in the rear section of that same property. The operator of the company agreed to cease outdoor cleaning operations of equipment, properly contain and dispose of illicit materials from cleaning process inside the building and to clean the catch basin and surrounding paved area. The Village inspected downstream pipes and basins and discovered no illicit materials. 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 March 12, 2015 a code inspector received a call about a potential illicit discharge occurring behind 1390 W. Army Trail Road. The Public Works Superintendent of Operations was immediately notified of the call and investigated the complaint; no evidence of an illicit discharge was found. An expanded search included the front of the property, the properties to the north and south, as well as the nearby outfalls connected to the storm system in this area. The complaint was unfounded. A brief follow-up inspection was conducted a week later with no evidence present at that time either, so the work order was closed.

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During the period of April 1, 2014 and March 31, 2015 the Village of Carol Stream had no reported sanitary sewer overflows.

Public Works Water & Sewer Employees aided in diagnosing and exposing the cause of a sewer problem at John's Deli on Gary Avenue.

Property owner removed leaking underground storage tanks (LUSTs) at the former Mobile station on the southwest corner of County Farm/Army Trail.

Tank removals were performed for LUSTs at 870 Army Trail Road – Mobil Gas Station

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 1 Milestones

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

Summary of Accomplishments

Staff at the Water Reclamation Center completed refresher training on the storm sewer system protection plan and standard operating procedures.

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance occur.

The Village has collected 100% of GPS coordinates for both public and private storm sewer systems and developed 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).

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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:

- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ Pump & Pump Maintenance
- ◆ Commercial Pesticides
- ◆ Urban Wildlife
- ◆ Green Infrastructure Symposium
- ◆ Anti-icing & Brine Making
- ◆ Public Roads De-icing Workshop
- ◆ Wastewater Treatment Processes & Technologies

Public Works employees began required training on Material Safety Data sheets – important information on products; invaluable safety information useful in the event of an exposure. Five chemicals were reviewed each morning. Training will take approximately 24 weeks to review nearly 600 products used the Public Works.

Village Staff attended the following educational programs:

- ◆ Commercial pesticide training
- ◆ Waterworks workshop
- ◆ Safety Data Sheet (SDS) – review of all chemicals on site and related SDS
- ◆ Brine Making equipment operation
- ◆ IEPA/AWWA Annual regulatory update
- ◆ Current stormwater regulations and policies

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

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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 1 Milestones

If needed amend the Village Storm Water Ordinance.

Summary of Accomplishments

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance occur. The following are a list of topics discussed:

- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Forms for Stormwater Permitting
- ◆ NPDES Annual Report
- ◆ Proposed Waters of the US Rule – Open Public comment period
- ◆ Stormwater Management Public Outreach
- ◆ Utility Projects with Multiple Permitting Jurisdictions
- ◆ Watershed Permitting Update

The following training sessions were attended:

- ◆ Amended County Flow Charts
- ◆ URETEK Seminar – Structural Polyurethane Injection
- ◆ Performance and Capacity of Compost Biofilters in Urban Runoff and Green Infrastructure

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D.2: Erosion & Sediment Control BMPs

Goals

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

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

Year 1 Milestones

None – Providing summary of accomplishments for information purposes only.

Summary of Accomplishments

The following training sessions were attended:

- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ Green Infrastructure Symposium

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.

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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 1 Milestones

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

Summary of Accomplishments

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance occur. The following are a list of topics discussed:

- ◆ Amended County Flow Charts
- ◆ Coordination to Develop Additional PCBMP Scenarios
- ◆ PCBMP Scenario Examples
- ◆ Sample Draft Standard Details and Notes

The following training sessions were attended:

- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Forms for Stormwater Permitting
- ◆ Utility Projects with Multiple Permitting Jurisdictions
- ◆ Watershed Permitting Update
- ◆ URETEK Seminar – Structural Polyurethane Injection
- ◆ Performance and Capacity of Compost Biofilters in Urban Runoff and Green Infrastructure
- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ Green Infrastructure Symposium
- ◆ Reducing Urban Phosphorus Load: Identifying Sources and Controls

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 43 permits were issued.

Notices were sent to DuPage Auto Bath for initiating the annexation process.

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Village Staff attended the DuPage County Stormwater Program Assessment and formulated a response to the survey concerning plan review policies and procedures.

Village Staff continue to work with Home Depot on addressing environmental concerns and zoning code violations.

Public Works crews completed restoration of turf grass in the west field at Town Center.

A total of 52 plan reviews were performed on 25 different residential, commercial, industrial and institutional developments. Issued 43 storm water management certifications, 44 residential building permits, 7 commercial/industrial site permits, 511 accessory permits and 70 parking lot permits. Plan reviews for soil erosion and sediment control were performed by Village Staff or through contracted consultant services.

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.

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 1 Milestones

Process CSRs involving storm water complaints.

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Summary of Accomplishments

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance occur. The following are a list of topics discussed:

- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Forms for Stormwater Permitting
- ◆ NPDES Annual Report
- ◆ Proposed Waters of the US Rule
- ◆ Stormwater Management Public Outreach
- ◆ Utility Projects with Multiple Permitting Jurisdictions
- ◆ Watershed Permitting Update

The Village accomplished many tasks at Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests/PUDs/corridor submittals, 5 ordinance revisions, 1 lease agreement, 7 annexation agreements, 5 variations, 3 plats of subdivision, 2 grants of stormwater easements, 3 IGA resolutions and these other following items:

- ◆ Armstrong Park Flood Control Project – On going project
- ◆ American Legion’s request for expanded hours of use of their baseball field
- ◆ Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews
- ◆ Drainage Plans – 325 Fullerton Avenue
- ◆ Annexation of the DuPage Auto Bath Property
- ◆ DuPage County’s Gary Avenue Project
- ◆ DuPage County’s Stormwater Program Assessment Survey
- ◆ Green Organics held an informational meeting for the proposed Landscape Waste Transfer Facility
- ◆ IGA with DuPage County – Cost Share a Portion of the Study to Create an Addendum to the Winfield Creek Watershed Plan.
- ◆ Illini Bridge replacement
- ◆ Landscape waste transfer facility was posted on the website
- ◆ Manhattan’s American Bar & Grill
- ◆ Medical Cannabis Dispensary
- ◆ Owens & Minor
- ◆ Park District Community Park
- ◆ Winfield Creek Watershed Study
- ◆ WRC hosted several classes over two days from Glenbard North.
- ◆ Public Works hosted two Glendale Heights employees interested in our brine making.
- ◆ WRC Open House
- ◆ Zoning Code Text Amendment
- ◆ 2015 Official Zoning Map

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- ◆ 870 W. Army Trail Road – Termination of Special Use Permits
- ◆ 867 Forest to the Village – Donation of the vacant lot
- ◆ Village Board Workshop – Contract for operation of the WRC and proposed operating permit requirements for the WRC that address phosphorous.

Public Works received, investigated and resolved forty one (41) drainage and storm water issues through the Village’s CSR system. Eighteen (18) of the CSR’s resulted in generation of a work order for follow-up work (all completed)

Green Organics mailed out invitations to nearby residents for an informational meeting regarding their proposed Landscape Waste Transfer Facility.

Village Staff met or corresponded with several prospective developers including:

Aldi Expansion; American Legion/Wheaton College Phase II; AT&T Mobile Communications Property; Stormwater Improvements in Armstrong Park; Armstrong Park Flood Control Reservoir Project; Brunswick Zone Property; Buchanan Energy; Bulldog Ale House; Burger King; ; C&C Power; Caputo’s; Caputo’s outlot development; Carol Stream Market Place – American Mattress; Carol Stream Park District – (Recreation Center & Community Park); Charter Fitness; Coyote Crossing in McCaslin Park; Community Park; CHAD – vacant property;; Comprehensive Plan Update; Convalescent home – 24W211 St. Charles Road; Public Visioning Workshop for the Comprehensive Plan Project; Countryside Animal Clinic; DuPage Auto Bath; DuPage County Armstrong Park Flood Control Reservoir; Pump Station and Siphon Projects; Property belonging to the Library; DuPage County Division of Transportation Gary Avenue Improvements; DuPage Water Conditioning; Fed Ex Ground Expansion; Economic Development event; Flood Brothers; Flying J Marketplace; Gary/Lies – northeast/southeast corners for development; 190 S. Gary; Geneva Crossing Phase II; Glendbard North; Green Organics – landscape waste transfer facility; Organic Soils; Home Depot; Hometown RV; Invensys Property; Jet- Brite Car Wash; Joe Cotton Ford; John & Tony’s preannexation agreement expiration; 700-710 Kimberly; Kimberly Redevelopment – Auto Auction; Landscape Waste/Yard Waste Transfer Station – Kuhn Road – Don Oppermann and Dave Gravel; Landscape waste facility; Library property on Kuhn Rd.; ; Mercedes Benz; Manhattan Club; Medical Cannabis Dispensary; Mercedes Benz; Mobile Station; O’Reilly Auto Parts; Outreach Community Center; Owens and Minor Distribution Inc.; North Avenue (Travel Center); Packaging Personified; Pilot Travel Plaza, Pioneer Clubs, Prince Castle; Red Hawk Park Annexation; Red Rooster Shopping Plaza; Robertshaw Controls; Roy DeShane School; Royal Die & Stamping; S&S International; Scrap Metal Recycling; Senne Property; SE Corner Gary & Lies; School District 93; Sherwin Williams; S&S International, St. Charles Rd. Townhome Project, Vale & County Farm townhomes, Village’s website; Walmart; Wheaton Christian Center

Village Staff attended and participated in these following other meetings:

- ◆ DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Project status meetings
- ◆ Met with resident at 619 Arrowhead Trail to address construction of earthen dam that is part of the Klein Creek Flood Mitigation Project in Armstrong Park.
- ◆ Staff met to discuss a residents request to construct a driveway with an ecogrid paving product.
- ◆ Comprehensive Plan Project Steering Committee meetings

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

- ◆ Planning for 2020-Assessing the Needs of Businesses in Carol Stream’s Industrial Park meeting
- ◆ Meetings for The Conservation Foundation’s (TCF) Conservation in our Community Program
- ◆ Meeting for 14-unit-1.7 acre townhome development on unincorporated property on the north side of St. Charles just east of President
- ◆ DuPage County Stormwater staff presentation on their Program Assessment for Stormwater Management
- ◆ April 15th Economic Event
- ◆ Staff met to discuss enforcement options for the proper maintenance of the storm water facility on the northeast corner of Kehoe/Kimberly.
- ◆ Executive Development Committee (EDC) met and reviewed plans for development of the northeast and southeast corners of Gary/Lies.
- ◆ May 7th The Conservation Foundation (TCF) will host an Inflow & Infiltration (I/I) Reduction Workshop at the Fountain View Recreation Center at 7:00 PM. The workshop is one element in our partnership in TCF’s Conservation in our Community Program. The workshop will deal with illegal connections, poor drainage, applicable regulations and effective solutions. By design, Village staff will not attend the workshop to create a non-threatening environment that will foster voluntary compliance.

The Department of Engineering Services performed soil erosion and sediment control inspections in accordance with our approved storm water pollution prevention plans (SWPPs) on all our projects. In addition the Village inspected 6 other private development sites for compliance with the DuPage County Stormwater Ordinance and documented the inspections in our Construction Site Runoff Control Inspection Report Database.

D.6: Site Inspection/Enforcement Procedures

Goals

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

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

Year 1 Milestones

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

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Summary of Accomplishments

The following training sessions were attended:

- ◆ Annual regulatory update – IEPA/AWWA
- ◆ Current Stormwater regulations and policies – Kane-DuPage Soil and Water Conservation District.

Village staff regularly attended project status meetings for DuPage County’s Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects as well as their Gary Avenue Improvement Project.

Engineering has forwarded a dust complaint for the County’s dirt stockpile to their attention which was promptly addressed.

Instructed Park District to cease all grading (fill) operations at Armstrong Park and ensure that the dirt is not placed in floodway or floodplain.

IEPA has informed Engineering that M/I Homes is not in compliance with their NPDES permit for Easton Park. Staff worked with the developer on returning their site to compliance.

Glenbard North Tennis Court Reconstruction Project – DuPage County received a complaint regarding the lack of soil erosion and sediment control – Engineering explained the project and measures being utilized by the School District to the County’s satisfaction.

On May 23 staff met to discuss enforcement options for the proper maintenance of the storm water facility on the northeast corner of Kehoe/Kimberly. Staff continues to work on identification of the party responsible for maintenance of the privately owned facility. A company in California believed to be the owner has been contacted. They are researching property ownership from their end. Village Staff continue to monitor the property regarding ongoing violations of the conditions of approval for a special use granted in 2008 and for erosion.

Issued 43 storm water management certifications, 44 residential building permits, 7 commercial/industrial site permits, 511 accessory permits and 70 parking lot permits. All these permits required site inspections that were performed by Village Staff or through contracted consultant services.

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 1 Milestones

If needed amend the Village Storm Water 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.

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance occur. Stormwater Ordinance topics included:

- ◆ Amended County Flow Charts
- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Form for Stormwater Permitting

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- ◆ Coordination to Develop Additional PCBMP Scenarios
- ◆ PCBMP Importance Values
- ◆ Proposed Waters of the US Rule – Open public comment period
- ◆ Small-Scale Stormwater Solutions IGIG Project
- ◆ Site Specific Flood Plain for Depressional Areas
- ◆ Utility Projects with Multiple Permitting Jurisdictions

The following training sessions were attended:

- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ PCBMP Scenario Examples
- ◆ PCBMP Flowchart
- ◆ PCBMP Sample Standard Details and Notes
- ◆ Pond Shoreline, Stream Bank and Wetland Restoration Maintenance Program

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 1 Milestones

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

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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.

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

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance occur.

The Village Board approved 3 plats of subdivision and accepted 2 grants of stormwater management and conveyance easements.

The following training sessions were attended:

- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ ILCA Sustainable Guide to Small-Scale Rain Gardens
- ◆ Native Plant BMP's and Their Maintenance
- ◆ Performance and Capacity of Compost Biofilters in Urban Runoff and Green Infrastructure
- ◆ Stormwater Management Public Outreach – Detention Basin Workshop
- ◆ PCBMP Scenario Examples
- ◆ PCBMP Flowchart
- ◆ PCBMP Sample Standard Details and Notes
- ◆ Pond Shoreline, Stream Bank and Wetland Restoration Maintenance Program

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 1 Milestones

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

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 43 permits were issued.

Engineering staff regularly attended and provided input at Municipal Engineers Group meetings where updates to the DuPage County Storm Water Ordinance occur.

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

- ◆ Coordination to Develop Additional PCBMP Scenarios
- ◆ PCBMP Scenario Examples
- ◆ PCBMP Draft Flow Chart
- ◆ Sample Draft Standard Details and Notes
- ◆ Coordination to Develop Additional PCBMP Scenarios
- ◆ PCBMP Importance Values
- ◆ Draft Drywell Detail
- ◆ Draft DuPage County Standard Notes Drywell Detail
- ◆ PCBMP Scenario Examples
- ◆ Stormwater Management Public Outreach – Detention Basin Workshop

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◆ Utility Projects with Multiple Permitting Jurisdictions

The Village accomplished many tasks at Village Board meetings to satisfy our permit obligations for this BMP. The Village Board took action on 13 special use requests/PUDs/corridor submittals, 5 ordinance revisions, 1 lease agreement, 7 annexation agreements, 5 variations, 3 plat of subdivision, 2 grants of stormwater easements, 3 IGA resolutions, 1 resolution and on these other following items:

- ◆ Armstrong Park Flood Control Project – On going project
- ◆ American Legion’s request for expanded hours of use of their baseball field
- ◆ Christopher B Burke Engineering Ltd – Award of Consultant Contract for Special Management Area Reviews
- ◆ Drainage Plans – 325 Fullerton Avenue
- ◆ Annexation of the DuPage Auto Bath Property
- ◆ DuPage County’s Gary Avenue Project
- ◆ DuPage County’s Stormwater Program Assessment Survey
- ◆ Green Organics held an informational meeting for the proposed Landscape Waste Transfer Facility
- ◆ IGA with DuPage County – Cost Share a Portion of the Study to Create an Addendum to the Winfield Creek Watershed Plan.
- ◆ Illini Bridge replacement
- ◆ Landscape waste transfer facility was posted on the website
- ◆ Manhattan’s American Bar & Grill
- ◆ Medical Cannabis Dispensary
- ◆ Owens & Minor
- ◆ Park District Community Parkmu
- ◆ Winfield Creek Watershed Study
- ◆ WRC hosted several classes over two days from Glenbard North.
- ◆ Public Works hosted two Glendale Heights employees interested in our brine making.
- ◆ WRC Open House
- ◆ Zoning Code Text Amendment
- ◆ 2015 Official Zoning Map
- ◆ 870 W. Army Trail Road – Termination of Special Use Permits
- ◆ 867 Forest to the Village – Donation of the vacant lot
- ◆ Village Board Workshop – Contract for operation of the WRC and proposed operating permit requirements for the WRC that address phosphorous.

On June 9th, we sent a Notice of Violation to the owner of record, an out-of-state real estate firm, of the retention pond property at the northeast corner of Kehoe Boulevard and Kimberly Drive for not properly maintaining a retention basin. On July 10th Community Development, Engineering and Public Works met with a maintenance contractor retained by the out of state owner of the retention basin on the northeast corner of Kehoe/Kimberly to address concerns with the functionality and appearance of the basin.

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Village Staff met or corresponded with several prospective developers including:

Aldi Expansion; American Legion/Wheaton College Phase II; AT&T Mobile Communications Property; Stormwater Improvements in Armstrong Park; Armstrong Park Flood Control Reservoir Project; Brunswick Zone Property; Buchanan Energy; Bulldog Ale House; Burger King, ; C&C Power; Caputo's; Caputo's outlot development; Carol Stream Market Place – American Mattress; Carol Stream Park District – (Recreation Center & Community Park); Charter Fitness; Coyote Crossing in McCaslin Park; Community Park; CHAD – vacant property;; Comprehensive Plan Update; Convalescent home – 24W211 St. Charles Road; Public Visioning Workshop for the Comprehensive Plan Project; Countryside Animal Clinic; DuPage Auto Bath; DuPage County Armstrong Park Flood Control Reservoir; Pump Station and Siphon Projects; Property belonging to the Library; DuPage County Division of Transportation Gary Avenue Improvements; DuPage Water Conditioning; Fed Ex Ground Expansion; Economic Development event; Flood Brothers; Flying J Marketplace; Gary/Lies – northeast/southeast corners for development; 190 S. Gary; Geneva Crossing Phase II; Glendbard North; Green Organics – landscape waste transfer facility; Organic Soils; Home Depot; Hometown RV; Invensys Property; Jet- Brite Car Wash; Joe Cotton Ford; John & Tony's preannexation agreement expiration; 700-710 Kimberly; Kimberly Redevelopment – Auto Auction; Landscape Waste/Yard Waste Transfer Station – Kuhn Road – Don Oppermann and Dave Gravel; Landscape waste facility; Library property on Kuhn Rd.; ; Mercedes Benz; Manhattan Club; Medical Cannabis Dispensary; Mercedes Benz; Mobile Station; O'Reilly Auto Parts; Outreach Community Center; Owens and Minor Distribution Inc.; North Avenue (Travel Center); Packaging Personified; Pilot Travel Plaza, Pioneer Clubs, Prince Castle; Red Hawk Park Annexation; Red Rooster Shopping Plaza; Robertshaw Controls; Roy DeShane School; Royal Die & Stamping; S&S International; Scrap Metal Recycling; Senne Property; SE Corner Gary & Lies; School District 93; Sherwin Williams; S&S International, St. Charles Rd. Townhome Project, Vale & County Farm townhomes, Village's website; Walmart; Wheaton Christian Center

Village Staff attended and participated in these following other meetings:

- ◆ DuPage County Armstrong Park Flood Control Reservoir, Pump Station and Siphon Project status meetings
- ◆ Met with resident at 619 Arrowhead Trail to address construction of earthen dam that is part of the Klein Creek Flood Mitigation Project in Armstrong Park.
- ◆ Staff met to discuss a residents request to construct a driveway with an ecogrid paving product.
- ◆ Comprehensive Plan Project Steering Committee meetings
- ◆ Planning for 2020-Assessing the Needs of Businesses in Carol Stream's Industrial Park meeting
- ◆ Meetings for The Conservation Foundation's (TCF) Conservation in our Community Program
- ◆ Meeting for 14-unit-1.7 acre townhome development on unincorporated property on the north side of St. Charles just east of President
- ◆ DuPage County Stormwater staff presentation on their Program Assessment for Stormwater Management
- ◆ April 15th Economic Event
- ◆ Staff met to discuss enforcement options for the proper maintenance of the storm water facility on the northeast corner of Kehoe/Kimberly.
- ◆ Executive Development Committee (EDC) met and reviewed plans for development of the northeast and southeast corners of Gary/Lies.
- ◆ May 7th The Conservation Foundation (TCF) will host an Inflow & Infiltration (I/I) Reduction Workshop at the Fountain View Recreation Center at 7:00 PM. The workshop is one element in our partnership in TCF's Conservation in our Community Program.

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The workshop will deal with illegal connections, poor drainage, applicable regulations and effective solutions. By design, Village staff will not attend the workshop to create a non-threatening environment that will foster voluntary compliance.

An obstructed storm sewer at the Kimberly/Kehoe retention basin was jetted out and invasive trees and bushes were cut down.

Staff is investigating and attempting to get fly-dumping debris removed at the Maple Ridge pond banks off Walnut Circle Maple Ridge Pond banks off Walnut Circle.

Our wetland and pond shoreline contractor obtained eight bags of free prairie seed mix from Fremi lab. The seed was used at locations in the Village.

The following training sessions were attended:

- ◆ Development of Ammonia Mass – Balance techniques: Web based load duration curve system and lower East Branch analysis
- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ Pump & Pump Maintenance
- ◆ Urban Wildlife
- ◆ Green Infrastructure Symposium
- ◆ TMDL Development for the DuPage River/Salt Creek
- ◆ ILCA Sustainable Guide to Small-Scale Rain Gardens
- ◆ Native Plant BMP's and Their Maintenance
- ◆ Performance and Capacity of Compost Biofilters in Urban Runoff and Green Infrastructure
- ◆ Stormwater Management Public Outreach – Detention Basin Workshop
- ◆ PCBMP Scenario Examples
- ◆ PCBMP Flowchart
- ◆ PCBMP Sample Standard Details and Notes
- ◆ Pond Shoreline, Stream Bank and Wetland Restoration Maintenance Program

A total of 52 plan reviews were performed on 25 different residential, commercial, industrial and institutional developments. Issued 43 storm water management certifications, 44 residential building permits, 7 commercial/industrial site permits, 511 accessory permits and 70 parking lot permits. Plan reviews requiring PCBMPs were performed by Village Staff or through contracted consultant services.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

E.5: Site Inspections During Construction

Goals

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

Year 1 Milestones

None – Providing summary of accomplishments for information purposes only.

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.

Issued 43 storm water management certifications, 44 residential building permits, 7 commercial/industrial site permits, 511 accessory permits and 70 parking lot permits. All permits requiring PCBMP site inspections were performed by Village Staff or through contracted consultant services.

The following training sessions were attended:

- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ Green Infrastructure Symposium
- ◆ Reducing Urban Phosphorus Load: Identifying Sources and Controls
- ◆ ILCA Sustainable Guide to Small-Scale Rain Gardens
- ◆ Native Plant BMP's and Their Maintenance
- ◆ Performance and Capacity of Compost Biofilters in Urban Runoff and Green Infrastructure
- ◆ Stormwater Management Public Outreach – Detention Basin Workshop
- ◆ PCBMP Sample Standard Details and Notes
- ◆ Pond Shoreline, Stream Bank and Wetland Restoration Maintenance Program

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

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.

Year 1 Milestones

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

Summary of Accomplishments

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

The following training sessions were attended:

- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ Pump & Pump Maintenance
- ◆ Commercial Pesticides
- ◆ Green Infrastructure Symposium
- ◆ DRSCW White Paper Proposal: Special Conditions & Implementation Plan
- ◆ Adaptive Management Plan to improve aquatic life and implement TMDLs on the main stem lower Salt Creek

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

- ◆ Reducing Urban Phosphorus Load: Identifying Sources and Controls
- ◆ 2012 Bioassessment Study of the Lower DuPage River Watershed
- ◆ Fawell Dam - Preliminary Assessment
- ◆ TMDL Development for the DuPage River/Salt Creek
- ◆ ILCA Sustainable Guide to Small-Scale Rain Gardens
- ◆ Native Plant BMP's and Their Maintenance
- ◆ Performance and Capacity of Compost Biofilters in Urban Runoff and Green Infrastructure
- ◆ Stormwater Management Public Outreach – Detention Basin Workshop
- ◆ PCBMP Sample Standard Details and Notes
- ◆ Pond Shoreline, Stream Bank and Wetland Restoration Maintenance Program

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:

- ◆ Stream Rehabilitation Projects:
 - Fawell Dam Preliminary Assessment
 - Fawell Dam Fish Passage Project Update
 - Oak Meadows Project Update
- ◆ Monitoring Committee:
 - 2014 East Branch DuPage River Assessment Update
 - 2012 West Branch Basin Assessment
- ◆ PAHs & Coal Tar Sealants (CTS) – Update on state ban legislation
- ◆ USEPA – DRSCW Workgroup met with IEPA to present permit with special conditions to USEPA for their review and approval. Regarding POTW's to meet phosphorous limits – in exchange POTS's would commit to funding certain projects aimed at meeting the goals of the Clean Water Act.
- ◆ IGIG Funding Update
- ◆ Presentations:
 - Sierra Club – Coal Tar Sealants
 - Lake County Stormwater Management – Watershed Management & Organization
 - APWA – Water Quality
 - WATERCON – White Paper Proposal
- ◆ Watershed Committee
 - East Branch DuPage River Resiliency & Watershed Plan (DuPage County SWM)
 - Lower Salt Creek Watershed Plan Update
 - West Branch, East Branch and Salt Creek Updates
 - Watershed Permitting Update

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

- ◆ Flood Plain Mapping
- ◆ TMDL Development for the DuPage River/Salt Creek
- ◆ Prepared Resource Managers Guide to Bioassessment

Responded to a request for assistance from the Carol Stream Library related to a small sinkhole near a catch basin in their parking lot just behind the curb. Upon inspection it was found that the catch basin and structure serves a dual purpose to drain the parking lot and to host a storm sewer pipe carrying water from the street to the creek. Work was performed to repair a gap between the incoming pipe and the barrel section which was subsequently filled with quick setting mortar and bricks.

Home Depot – Working with this parcel’s new owner regarding the environmental concerns and zoning code violations.

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

- ◆ At 333 Kehoe Boulevard there is a privately owned storm water detention basin wherein the outfall pipe continues to plug due to beaver activity. On numerous occasions throughout the summer of 2014 the Publics Works Department cleared woody debris build-up from around the over-flow structure. The storm outfall was slushed and rodded on multiple occasions to break-up the blockage and restore flow. Additionally, at time of high water level and predicted heavy rain falls, the Public Works Department set-up a bypass pumping operation to alleviate the possibility of localized flooding associated with the ponds dysfunction. The Village will continue to attempt to contact the property owner to maintain the basin.
- ◆ Maple Ridge pond banks off Walnut Circle – fly dumping of woody vegetation. Staff is investigating and attempting to get the debris removed.
- ◆ Continue to work with property owner on drainage issues on west side of Fair Oaks.

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

- ◆ Culverts on Birchbark (on six occasions)
- ◆ Klein Creek at Kuhn Road (three occasions)
- ◆ Culverts between 956 & 968 Ridge Trail (on two occasions), trees at that location ere wrapped in fencing to protect from further damage.

Pond and Stream Sweep - The Village held its annual Pond & Stream Sweep on Saturday, May 17th, 170 volunteer, 21 groups removed 6,500 lbs. of trash and debris from 20 miles of shorelines along 21 ponds and stream sections. Our Pond & Stream Sweep was held in coordination with The Conservation Foundation and the DuPage County Stormwater Management Division.

Pond shoreline controlled burns, herbaceous and emerging woody cuttings, selective herbiciding and trash removal was performed on 16 native prairie pond shorelines and wetlands. In addition 10 native trees were planted at the Northwest Gary Avenue – Lies Road pond through a Trees Forever grant.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

Completed the 2014 Klein and Thunderbird Creeks Debris and Obstruction Removal Project removing trash, litter, debris and obstructions from the streams.

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.

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.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

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 1 Milestones

None – Providing summary of accomplishments for information purposes only.

Summary of Accomplishments

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

- ◆ Amended County Flow Charts
- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Forms for Stormwater Permitting
- ◆ NPDES Annual Report
- ◆ Proposed Waters of the US Rule – Open Public comment period
- ◆ River Sweep and Adopt-a-Stream Program thru The Conservation Foundation
- ◆ Stormwater Management Public Outreach – Detention Basin Workshop
- ◆ Utility Projects with Multiple Permitting Jurisdictions
- ◆ DuPage County Stormwater Management Program

Engineering, Public Works and/or Community Development attended the following training sessions:

- ◆ Pump and pump maintenance
- ◆ Commercial Pesticides
- ◆ Urban Wildlife Workshop
- ◆ Waterworks Workshop
- ◆ Safety Data Sheet (SDS)
- ◆ Anti-icing Technology & Strategies
- ◆ Anti-icing & Brine Making
- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Public Roads De-icing Workshop
- ◆ Wastewater Treatment Processes & Technologies
- ◆ Current Stormwater Regulations & Policies
- ◆ Green Infrastructure Symposium
- ◆ Trench Collapse Refresher Course
- ◆ Public Works Superintendent of Operations attended and served as a presenter at the Will County/South DuPage Deicing Workshop
- ◆ Water Reclamation Center (WRC) Storm Sewer System Protection Plan & Standard Operating Procedures Refresher

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

- ◆ Pond Shoreline, Stream Bank and Wetland Restoration Maintenance Program
- ◆ Inspection and Identification of Dead, Diseases and Infested Trees
- ◆ DRSCW White Paper Proposal: Special Conditions & Implementation Plan
- ◆ Development of Ammonia Mass – Balance techniques: Web based load duration curve system and lower East Branch analysis
- ◆ Reducing Urban Phosphorus Load: Identifying Sources and Controls
- ◆ Chloride Monitoring Results and TMDL Implementation Update
- ◆ Winnetka Refined Coal Tar Ban
- ◆ TMDL Development for the DuPage River/Salt Creek
- ◆ Continuous Dissolved Oxygen Monitoring Workshop for Participating Agencies
- ◆ Parking Lots & Sidewalks Deicing Workshop
- ◆ Public Works Arborist conducted training for inspection staff in the Community Development on identification of dead, diseases and infested trees.

Police Department attended first responder training on rail car safety.

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. These are the technical presentations the DRSCW presented in 2014:

- ◆ DRSCW White Paper Proposal: Special Conditions & Implementation Plan – April 30, 2014
- ◆ Adaptive Management Plan to improve aquatic life and implement TMDLs on the main stem lower Salt Creek – June 25, 2014
- ◆ Development of Ammonia Mass – Balance techniques: Web based load duration curve system and lower East Branch analysis – June 25, 2014
- ◆ Reducing Urban Phosphorus Load: Identifying Sources and Controls – August 27, 2014
- ◆ 2012 Bioassessment Study of the Lower DuPage River Watershed – August 27, 2014
- ◆ Chloride Monitoring Results and TMDL Implementation Update – October 29, 2014
- ◆ Fawell Dam - Preliminary Assessment – October 29, 2014
- ◆ Winnetka Refined Coal Tar Ban – December 10, 2014
- ◆ TMDL Development for the DuPage River/Salt Creek - The Illinois Environmental Protection Agency - Watershed Management Section/Planning (TMDL) Unit – December 10, 2014
- ◆ Continuous Dissolved Oxygen Monitoring Workshop for Participating Agencies – March 4, 2014
- ◆ National webinar for stormwater BMPs on transportation infrastructure hosted by US EPA. The Illinois Toll Highway Authority invited the DRSCW to co-present regarding the chloride offset program MOU – March 6, 2014
- ◆ Prairie River Group of the Sierra Club. PAHs and Coal Tar sealants – March 10, 2014
- ◆ WATERCON 2014 hosted by the Illinois Section American Water Works Association &
- ◆ Illinois Water Environment Association. White Paper Proposal and Chloride Offset Model – March 18, 2014
- ◆ Illinois 2014 Rivers and Streams Meeting, Milan, IL. Causal analysis and Prioritizing Projects – April 2, 2014

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

- ◆ Iowa APWA Conference. Chlorides and Watershed Management – April 3, 2014
- ◆ Forest Preserve District of DuPage County Urban Stream Research Center Open House. Ambient and wastewater chemistry – August 2, 2014
- ◆ Public Roads Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL – September 25, 2014
- ◆ Managing Snow and Ice Control Operations, University of Wisconsin-Madison; Winter Maintenance and Environmental Impacts - Winter Maintenance and Environmental Impacts – October 7, 2014
- ◆ Parking Lots & Sidewalks Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL – October 9, 2014
- ◆ Lower DuPage River Watershed Coalition’s Deicing Workshops. Regulations related to salt management, New Lenox, IL – October 16, 2014
- ◆ US EPA/ FHWA National Webinar on Chloride Management. Co-Presented with DuPage County Division of Transportation, Wheaton, IL – November 6, 2014
- ◆ Salt Spreader Calibration Workshop at DuPage County Division of Transportation, Wheaton, IL – November 18, 2014
- ◆ Lower DuPage River Watershed Coalition. DRSCW Project Funding Proposal & Other DRSCW Activities, Plainfield, IL – November 20, 2014
- ◆ DuPage County Environmental Summit. Current River Conditions and the Challenges we Face, Naperville, IL – February 19, 2015
- ◆ Illinois Lakes Management’s Annual Conference, DRSCW Formation and Organization, DeKalb, IL – February 19, 2015
- ◆ Illinois Water Environment Association’s Annual Conference, DRSCW Formation and Organization, Champaign, IL – February 24, 2015

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).

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

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

The Village will develop maintenance procedures that incorporate pollution control measures, continue the Catch Basin Cleaning, Inspection and Assessment Program, continue the Street Sweeping Program using vacuum sweepers, continue the Wetland & Pond Shoreline Monitoring & Management Program, continue the Sanitary Sewer Inspection Program using digital televising methods, continue the Sanitary Sewer Manhole Sealing 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 1 Milestones

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

Summary of Accomplishments

The following maintenance operations were performed:

- ◆ Following the adoption of temporary conservation measures in the prior year due to extreme winter and salt shortages, the Village permanently adopted the following salt conservation strategies into practice:
 - No salt on courts and cul-de-sacs
 - Salt use only on final plowing pass
 - When possible provide anti-icing on all streets; otherwise, focus efforts on primary streets

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

- ◆ Improved brine-making capability and trained employees in refined practices to allow for expanded use of anti-icing program to reduce overall use of salt during plowing operations
- ◆ Carol Stream is currently employing both anti-icing and de-icing measures in its annual Snow Removal Plan. Pre-wetting salt and using an anti-icing mixture of salt brine, beet juice extract and calcium chlorides 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 de-icing is kept in a salt dome and the areas surrounding the dome are routinely kept clean.
- ◆ Public Works hosted two Glendale Heights employees interested in our brine making operation and equipment. Staff also shared our deicing strategies and experience with the employees.
- ◆ Carol Stream recognized at the conservation Foundations Low Salt Community Award recipient for the 2013-2014 snow season.
- ◆ 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.
- ◆ The Village maintains over 8,000 parkway trees that help filter and absorb storm water runoff. Approved the purchase of 350 trees under an existing agreement with St. Aubin Nursery. During the period the Village removed approximately 230 EAB-infested parkway trees and planted 1,200. Completed inspections on 600 trees.
- ◆ Employed a contractor to trim approximately 1,000 trees in Zone 1 at a cost of around \$48,000.
- ◆ Expended nearly 4,800 man-hours on storm system maintenance.
- ◆ Expended approximately \$195,000 (unaudited) on storm water maintenance and repair (non-capital)
- ◆ Used a combination of in-house and contracted assistance to accomplish the following major initiatives:
 - Over 100 manholes cleaned.
 - Approximately 18,000 lineal feet of pipe flushed.
 - Approximately 800 lineal feet of pipe televised.
 - Completed root-cutting in three locations.
 - Cleaned and repaired thirty-four 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 four (4) storm sewer grates damaged by snow plows.
- ◆ Removed beaver dams from the following locations, re-establishing flow and water levels and protecting stream shorelines:
 - Culverts on Birchbark (on six occasions)
 - Klein Creek at Kuhn Road (three occasions)
 - Culverts between 956 & 968 Ridge Trail (on two occasions), trees at that location were wrapped in fencing to protect from further damage.
- ◆ Awarded and completed the 2014 Flex Pavement Project which included storm sewer structure repairs and underdrain work.
- ◆ The Village's engineering consultant worked on sanitary sewer infiltration and inflow (I&I) study. The first phase of the work will focus on an area immediately west of the WRC determined in prior flow testing to be one of the worst areas for I&I.

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- ◆ Awarded and completed a contract for the Sanitary Sewer Rehabilitation Program at a total cost of over \$175,000 aimed at reducing sources of inflow and infiltration (I&I) based upon studies completed in prior year. Work included:
 - Lining of 1,300 feet of sewer pipe
 - Removal of obstructions
 - Chemical sealing and urethane grouting of manholes
 - Lateral inserts
 - Manhole resurfacing
 - Manhole chimney lining
- ◆ Failed pump at the Tall Oaks lift station was replaced.
- ◆ Awarded and completed a contract for the Illini Bridge Replacement Project.
- ◆ Pond shoreline controlled burns, herbaceous and emerging woody cuttings, selective herbiciding and trash removal was performed on 16 native prairie pond shorelines and wetlands. In addition 10 native trees were planted at the Northwest Gary Avenue – Lies Road pond through a Trees Forever grant.
- ◆ Operated five (5) aerators providing oxygen to four ponds.
- ◆ Completed the 2014 Klein and Thunderbird Creeks Debris and Obstruction Removal Project removing trash, litter, debris and obstructions from the streams.
- ◆ Award and completed a contract to Beary Landscape Management.
- ◆ Public Works rented hydro-seeding equipment and placed grass seed, cover and fertilizer at numerous sites throughout the Village.
- ◆ Public Works began restoring turf on the service drive at the Town Center which leads to the enclosure previously housing our garbage containers.
- ◆ Approved Landscape Maintenance Contract with Jameson Landscaping Services that prohibits the use of fertilizers containing phosphates and when fertilization is necessary contractor must utilize organic options.
- ◆ The Village owns a 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 following work was completed for the Water Reclamation Center (WRC):
 - WRC annual inspection by the IEPA was conducted, no deficiencies, corrective items or negative comments. The inspector’s summary states “This facility appears to be well operated and maintained.”
 - WRC annual report submitted to Village Board
 - Approved an Agreement for Operations Maintenance and Management Services for the Water Reclamation Center.
 - The Village completed Phase II of its WRC Aeration System Upgrade Project at a cost of nearly \$600,000 which included installation of one turbo-blower, a small centrifugal blower for grit operations, additional monitoring equipment for ammonia and automated controls which can be monitored and operated remotely through use of SCADA.
 - Awarded a contract for the WRC Screw Pump Rehabilitation Project.
 - WRC was host to a meeting of about forty wastewater treatment operators. The professionals toured the plant and heard a presentation on the aeration system upgrade projects.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

Responded to a request for assistance from the Carol Stream Library related to a small sinkhole near a catch basin in their parking lot just behind the curb. Upon inspection it was found that the catch basin and structure serves a dual purpose to drain the parking lot and to host a storm sewer pipe carrying water from the street to the creek. Work was performed to repair a gap between the incoming pipe and the barrel section which was subsequently filled with quick setting mortar and bricks.

Home Depot – Working with this parcel’s new owner regarding the environmental concerns and zoning code violations.

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

- ◆ At 333 Kehoe Boulevard there is a privately owned storm water detention basin wherein the outfall pipe continues to plug due to beaver activity. On numerous occasions throughout the summer of 2014 the Publics Works Department cleared woody debris build-up from around the over-flow structure. The storm outfall was slushed and rodded on multiple occasions to break-up the blockage and restore flow. Additionally, at time of high water level and predicted heavy rain falls, the Public Works Department set-up a bypass pumping operation to alleviate the possibility of localized flooding associated with the ponds dysfunction. The Village will continue to attempt to contact the property owner to maintain the basin.
- ◆ Maple Ridge pond banks off Walnut Circle – fly dumping of woody vegetation. Staff is investigating and attempting to get the debris removed.
- ◆ Continue to work with property owner on drainage issues on west side of Fair Oaks.
- ◆ Easy Street flooding – Public Works found two plastic containers blocking the drain pipe. Dual flushing and pumping operations dislodged the blockage.

Pond and Stream Sweep - The Village held its annual Pond & Stream Sweep on Saturday, May 17th, 170 volunteer, 21 groups removed 6,500 lbs. of trash and debris from 20 miles of shorelines along 21 ponds and stream sections. Our Pond & Stream Sweep was held in coordination with The Conservation Foundation and the DuPage County Stormwater Management Division. In conjunction with this event the DuPage County Sherriff’s SWAP performed clean ups on Kuhn Road & Fair Oaks Road collecting 400 pounds of garbage.

Public Works & Engineering developed a program for roadway drainage improvements.

Engineering has collected and mapped the GPS coordinates for all water, sanitary, and storm sewer structures in the Village. This is an element of one of the Village Board’s goals. In addition the Village is conducting an Asset and Operations Management Program (AOMP) Evaluation to determine which one of the many and various AOMPs is best suited for the Village. The AOMP will greatly assist the Village in the operation, maintenance and management of not only our sanitary sewer collection, storm water management and water distribution systems, but also all other Village infrastructure including roads, lighting, sidewalks, paths, trails, signs, etc.

The Village of Carol Stream was approved for membership into the Geographic Information System (GIS) Consortium. A contract was awarded to Municipal GIS Partners, Inc. (MGP) for GIS Consultant Services in the amount of \$45,580.00. This contract provides for the implementation of GIS applications and projects including the development of our utility maps and geodatabases that will be used with our AOMP.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

Public works has begun the application process for Tree City USA status.

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 Committee (New Business) –
 - Date for the 2015 public roads workshop has been set for 23rd of September
 - Chloride Committee Update
 - Chloride Offset Program with the Illinois Tollway - Update
 - 2014 Public Roadway Deicing Questionnaire.
 - Chloride Offset Program with the Illinois Tollway Update.
- ◆ DRSCW – Private Deicer Workshop
- ◆ Documenting Your Cumulative Substantial Improvement Method
- ◆ Final Draft of Special Conditions for POTW members' NPDES Permits
- ◆ Illinois State Water Survey (ISWS – preliminary flood plain maps
- ◆ Municipal Engineers Group MEG
- ◆ Native Plant BMP's and Their Maintenance
- ◆ New Certification Application Form for Stormwater Permitting
- ◆ Ordinance Interpretation of Allowable Flood Increases
- ◆ Proposed Water of the US Rule – Open public comment period
- ◆ Site Specific Flood Plain for Depressional Areas
- ◆ Special Conditions Permit Language Update
- ◆ TMDL Development for the DuPage River/Salt Creek (New Business)

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

F.3 & 4: Municipal Operations – Storm Water Control & 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.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

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 1 Milestones

Utilize both pre-wetting and anti-icing measures and document quantities. Properly dispose of waste, debris, trash, spoils, etc. and document quantities.

Summary of Accomplishments

Carol Stream held the following recycling events:

- ◆ Document Shredding Event at Town Center DuPage, conducted by the County
- ◆ Free Document Shredding, Village of Carol Stream
- ◆ Recycling Holiday Cooking Oil
- ◆ Recycling Event– Village of Carol Stream – Electronic, Books, Athletic Shoes, Working Bikes, Document Shredding
- ◆ Recycling Event– 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 350 lbs. of drugs and medical supplies.

The following accomplishments were achieved:

- ◆ 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.
- ◆ The Public Works Department hauled twenty five (25) loads of clean spoils totaling approximately 116 cubic yards or material generated from fifteen (15) separated worksites in the Village. Material was tested and hauled to Heartland Recycling CCDD facility (Aurora, IL).
- ◆ Adopt-A-Highway Program utilized volunteers from five (5) community organizations to perform fifteen (15) cleanups removing trash from 21 miles of roadway.
- ◆ All road salt is stored under roof in salt dome and surrounding area is regularly swept to avoid runoff.
- ◆ No SSO's were reported during the year.
- ◆ Operate over fifty (50) vehicles/equipment that use bio-diesel.
- ◆ Recycled the following quantities of waste:
 - 10,000 pounds of various metal products, including: street signs, water meters, fire hydrants, general scrap and surplus/used pipe and other equipment.
 - 196 tires
 - 85 retired water meter ARM radio-heads

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

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 1 Milestones

If needed amend the Village Storm Water 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.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

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

- ◆ Amended County Flow Charts
- ◆ Municipal Engineers Group (MEG)
- ◆ New Certification Application Forms for Stormwater Permitting
- ◆ NPDES Annual Report
- ◆ Oak Meadows Project Update
- ◆ Proposed Waters of the US Rule – Open Public comment period
- ◆ DuPage County Stormwater Management Program

Engineering attended the annual Natural Hazard Mitigation Workgroup meeting.

An illegal bridge was installed over the creek that discharges from the Evergreen Lakes retention ponds into the Dogwood Park-Wayne Oaks Dam flood Control Reservoir to the south and west. The bridge does not pose an immediate threat but could be a problem if it were to get washed out and its parts compromised functioning of the outlet control structure. This is the second time a bridge has been erected at this location, but by a different resident. The bridge was removed by the Village.

Engineering is working with DuPage County on their Winfield Creek Watershed Study where a sub-study will assess the flooding in the southeast section of the Village and develop recommendations to alleviate the flooding.

The Village continues to assist DuPage County with the construction of their Armstrong Park Flood Control Reservoir, Pump Station and Siphon Projects.

FEMA has twice requested additional documentation to close out the 2011 Buyout Project. Engineering has provided the additional information.

Engineering investigated a complaint about unauthorized fill taking place in the flood plain at Armstrong Park. The owner was contacted and instructed to cease all fill operations. The fill was removed and measures were put in place to ensure that the dirt is not placed in the floodway or floodplain.

The following training sessions were attended:

- ◆ IEPA/AWWA Annual Regulatory Update
- ◆ Current Stormwater Regulations & Policies
- ◆ Amended County Flow Charts

Some flood plain management, disaster preparedness and response initiatives taken include:

- ◆ Routinely inspected and cleared debris from critical storm water infrastructure prior to forecast rain events.
- ◆ Removed debris from two major drainage culverts (Old Gary and Lies Road culverts).

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

- ◆ Completed the 2014 Klein and Thunderbird Creeks Debris and Obstruction Removal Project removing trash, litter, debris and obstructions from the streams.
- ◆ Removed beaver dams from the following locations, re-establishing flow and water levels and protecting stream shorelines:
 - Culverts on Birchbark (on six occasions)
 - Klein Creek at Kuhn Road (three occasions)
 - Culverts between 956 & 968 Ridge Trail (on two occasions), trees at that location were wrapped in fencing to protect from further damage.
- ◆ Responded to storm water issues at several private storm facility locations:
 - At 333 Kehoe Boulevard there is a privately owned storm water detention basin wherein the outfall pipe continues to plug due to beaver activity. On numerous occasions throughout the summer of 2014 the Public Works Department cleared woody debris build-up from around the over-flow structure. The storm outfall was slushed and rodded on multiple occasions to break-up the blockage and restore flow. Additionally, at time of high water level and predicted heavy rain falls, the Public Works Department set-up a bypass pumping operation to alleviate the possibility of localized flooding associated with the ponds dysfunction. The Village will continue to attempt to contact the property owner to maintain the basin.
 - Maple Ridge pond banks off Walnut Circle – fly dumping of woody vegetation. Staff is investigating and attempting to get the debris removed.
 - Continue to work with property owner on drainage issues on west side of Fair Oaks.
 - Easy Street flooding – Public Works found two plastic containers blocking the drain pipe. Dual flushing and pumping operations dislodged the blockage.
- ◆ Partially completed an upgrade to the Emergency Operations Center to improve functionality of the room (electrical, generator, HVAC systems), upgrade video display and capabilities, and provide triple redundancy for data and phone communications (cable, cellular and satellite).

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.

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Year 12 of NPDES Permit No. ILR400308

Village of Carol Stream, 3rd Notice of Intent (Year 1)

Year 1 Milestones

None – Providing summary of accomplishments for information purposes only.

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.

FEMA revised flood plain maps in 2004 and omitted a previous revision new the WRC. This error has resulted in the flood plain being much larger than it actually should be. Engineering has contacted DuPage County about the error and had FEMA correct it.

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Village of Carol Stream, 3rd Notice of Intent (Year 1)

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 40% 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 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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Year 12 of NPDES Permit No. ILR400308

Village of Carol Stream, 3rd Notice of Intent (Year 1)

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.

Annual Facility Inspection Report – Section E

Year 11 of NPDES Permit No. ILR400308

Village of Carol Stream, 2nd Notice of Intent (Year 5)

The Village of Carol Stream is relying on DuPage County and the DuPage River Salt Creek Workgroup (DRSCW) to satisfy our permit obligations. See DuPage County’s Annual Facility Inspection Report and the DRSCW’s web site.

Annual Facility Inspection Report – Section F

Year 11 of NPDES Permit No. ILR400308

Village of Carol Stream, 2nd Notice of Intent (Year 5)

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.

Location	Start Date Est. Comp. Date Description
Illini Drive Bridge Replacement Project	6/2014 4/2015 Removal of the existing roadway, Spancrete bridge deck panels and abutments and installing a new cast-in-place structure.