



DUPAGECOUNTY

STORMWATER MANAGEMENT

Nutrient Loss Reduction Strategy, DuPage County Perspective

Background

DuPage County, IL

- Located just west of Chicago/ Cook County
- Population: 926,000 (2nd most populous in IL)
- 336 square miles



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STORMWATER MANAGEMENT

Who Are We?



Stormwater Management in DuPage County

- Countywide program established in 1989
- Guided by the Stormwater Management Planning Committee & Plan
- Enforce the Countywide Stormwater Management & Floodplain Ordinance
- Flood Control Facilities have a floodwater capacity of nearly 6 billion gallons

Programs

- Watershed Management
- Water Quality
- Floodplain Mapping
- Regulatory Services
- Flood Control Operations & Maintenance
- Shared Services

Urban Stormwater

Causes & Sources of Nutrients

- Urban Runoff/ Storm Sewers
- Lawns- Fertilizers, Leaf Litter, Grass Clippings, Pet and Wildlife Waste
- Streambank Erosion & Channelization
- Municipal Point Sources

Solutions

- Green Infrastructure
- Sustainable Lawn Care
- Stream Restoration Projects
- Septic System Maintenance Education
- Public Education & Outreach



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STORMWATER MANAGEMENT

Overview



Nutrient Reduction Efforts

- MS4 Permit partnership
- Watershed Planning
- Water Quality Improvement Program Grant
- Education & Outreach



Watershed Planning

Completed Watershed Plans

- Winfield Creek (West Branch DuPage River)
- Klein Creek (West Branch DuPage River)
- Kress Creek (West Branch DuPage River)
- Springbrook Trib #1 (West Branch DuPage River)
- Sawmill Creek (Des Plaines River)
- St. Joseph Creek (East Branch DuPage River)
- Lower Salt Creek

Watershed Plans In Progress

- East Branch DuPage River
- Indian Creek (Fox River)



St. Joseph Creek
Watershed-Based Plan

August 2017



STORMWATER MANAGEMENT

Winfield Creek Implementation



Memorial Park, Wheaton Park District
Permeable Paver Parking Lot Conversion, Native Plants, Urban Planter Boxes
Nitrogen: 3.5 lbs/yr, Phosphorus: 1 lb/yr

Klein Creek Implementation



The Park Basin Retrofit, Village of Carol Stream
Detention Basin Retrofit, Native Plantings

Klein Creek Implementation



Kehoe Boulevard Streambank Stabilization, Village of Carol Stream
Bank Stabilization, Native Plantings
Nitrogen: 9.8 lbs/yr, Phosphorus: 3.8 lbs/yr

St. Joseph Creek Implementation



St. Joseph Creek River Restoration, Village of Downers Grove
Streambank Stabilization, Channel Improvements, Native Plantings
Nitrogen: 150.33 lbs/yr, Phosphorus: 75.17 lbs/yr

Lower Salt Creek Implementation



Old Town Parking Lot, Village of Bloomingdale
Permeable Pavers, Native Plantings
Nitrogen: 19.16 lbs/yr, Phosphorus: 2.44 lbs/yr

Lower Salt Creek Implementation



Squaw Creek Stream Restoration, Village of Wood Dale
Streambank Stabilization, Channel Improvements, Native Plantings

Lower Salt Creek Implementation



Central Park BMPs, Oak Brook Park District
Dam Removal, Streambank Restoration, Permeable Pavement, Bioswale, Native Plantings

Public Outreach & Education



Water Quality Education

- Social Media Campaign (“*Love Blue. Live Green.*”)
- Videos, Infographics, Brochures, Booklets, GIFs, Story Maps
- Monthly Newsletter
- Education Contracts (General, Youth & Technical)

Events

- Green Infrastructure Seminar
- Pollution Prevention Seminar
- Watershed Workshops
- Community Events
- Sponsored Seminars (i.e. Beyond the Basics, DuPage Environmental Summit)

Public Outreach & Education



Love Blue. Live Green.

@LoveBlueDuPage

A campaign to protect and enhance the quality of DuPage County water.

© DuPage County, IL dupageco.org/swm Joined August 2015

516 Following 301 Followers

Tweets

Tweets & replies

Media



Love Blue. Live Green. @LoveBlueDuPage · 17h

Planning to fry a turkey this Thanksgiving? Make sure to join in recycling your cooking oil at one of several @DuPageCou Saturday, November 30 from 9am-Noon!



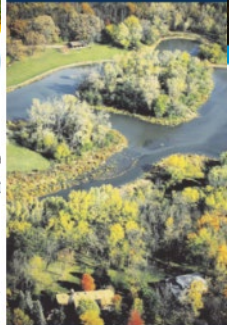
Cooking Oil Collection – Thanksgiving 2015
As part of an annual, one-day event, several sites will be collecting used, liquid cooking oil (not grease).
scarc.org

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WATER WHEN YOU LEAVE

(630) 400-1234
stormwatergmt@dupageco.org

www.dupageco.org/swm



DuPage Hosting "Healthy Rivers, Healthy Communities"



A man fly fishing along the West Branch DuPage River near the site of several water quality projects.



DID YOU KNOW?

A single rain barrel will capture close to 1,300 gallons of water during the peak summer months.

LEARN MORE AT WWW.DUPAGECO.ORG/SWM



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STORMWATER MANAGEMENT

Public Outreach & Education



Citizen Involvement

Citizen Stewardship Programs

- Adopt-A-Stream
- Storm Drain Medallions
- Citizen Reporter App

Events

- Thanksgiving Cooking Oil Collection
- Pumpkin Smash
- DuPage River Sweep
- Sustainable Design Challenge



Challenges



Green Infrastructure

- Tracking Projects
- Private Property
- Estimating Load Reductions

Measurable Effects of Education & Outreach

- Sustainable Lawn Care
- Pet Waste
- Native Plants/ Rain Gardens
- Rain Barrels



Questions?



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