

Downers Grove Stormwater Education Workshop

Presented by the Village of Downers Grove
in Cooperation with
The Conservation Foundation





The Conservation Foundation

Founded 1972

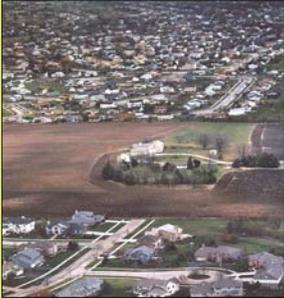
*A private, member supported, not-for-profit
organization serving northeastern Illinois*



The Conservation Foundation We Save Land. We Save Rivers.

The McDonald Farm

- 60 acres total
- 49 agricultural acres
- Butterfly garden
- Water garden
- Native prairie
- Organic garden
- Tree nursery
- Wetland area




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What we do!

- Education – all ages!
- Environmental Stewardship
- Land preservation
- River and Watershed activities
(cleaning, monitoring, restoring, stenciling)
- Sustainable Development
- Conservation@Home



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River Sweep Engaging people and the land




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6

“Feel the Force”

Yoda



Welcome!



Make the landscape work!



Hold that water!



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Water Quality issues...





Quantity issues too...
Boom



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A photograph of a river with a concrete bridge crossing it. The water is turbulent and white with foam. The banks are eroded and covered with debris, including sticks and leaves. The overall scene suggests a lack of maintenance or natural habitat.

Bust



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A photograph of a muddy, eroded riverbank. The water is brown and murky. The banks are steep and show signs of significant erosion, with a large pile of sand and debris in the foreground. The background shows bare trees, suggesting a winter or late autumn setting.

The beauty of our
landscapes can
be breathtaking!



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A photograph of a modern building with a large, landscaped area. The building has a red metal roof and brick walls. The landscaping includes a concrete walkway, a gravel bed, and some colorful flowers. The scene is bright and sunny.

Habitat

Build it, they will come!



Photo by Jack Pizzo
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www.pizzo.info

A photograph of a frog sitting in a pond surrounded by large green lily pads. The frog is green and has large eyes. The water is calm, and the lily pads are floating on the surface.

Rain Garden



• Benefits of Rain Gardens

- Basically, rain gardens are an inexpensive, simple to implement and environmentally sound solution to urban stormwater runoff.
- A Rain Garden will:
- Filter runoff pollution
- Recharge local groundwater
- Conserve water
- Improve water quality
- Protect rivers and streams
- Remove standing water in your yard
- Reduce mosquito breeding
- Increase beneficial insects that eliminate pest insects
- Reduce potential of home flooding
- Create habitat for birds & butterflies
- Survive drought seasons
- Reduce garden maintenance
- Increase garden enjoyment



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Utilize the resource!



If you build it, they will come!



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29



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30

30

Functional Landscapes!



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31

31

Just add water!



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Interested in these visitors?



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White Turtlehead Chelone glabra



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Liatris spicata Marsh Blazing Star



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Asclepius Incarnata
Swamp Milkweed



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Filipendula rubra
Queen of the prairie



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Carex sp.
Sedges



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The Tale of Two Ponds #1



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Its up to you!



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#2



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Moderate Density Residential

Conventional Conservation

Turf grass drainage swale designed for conveyance. Drainage swale with native vegetation designed to slow down runoff and retain as much as possible.

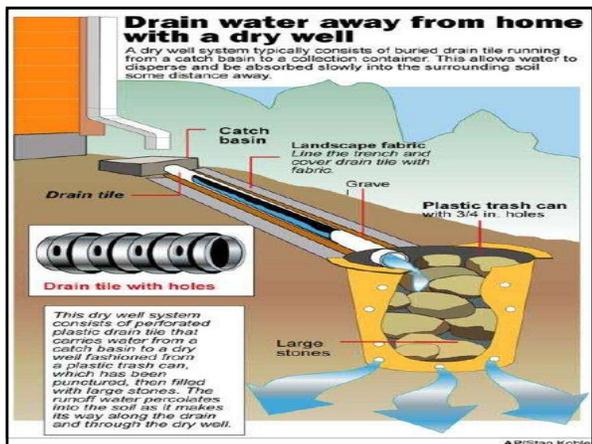
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Stream Corridor

Conventional Conservation

Excessive bank erosion; non-native vegetation with poor root system along banks. Little bank erosion – natural vegetation with deep root system to resist scour/undercutting.

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Plain or fancy they work!

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Have fun with decorations!



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Where there is a will – there is a way!



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DuPage County Program



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Municipal programs!

- Geneva
- Lisle
- Elgin
- Downers Grove
- ST Charles
- Plainfield
- Wheaton
- Aurora
- Naperville
- Roselle
- Yorkville
- Woodridge
- Elmhurst
- Batavia

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Corporate Programs!

- McDonalds Corp
- DuPage County employees
- Ball Horticultural
- Lewis University employees
- Burke Engineering

Your place of employment?

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Rainwater Harvesting Concept



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Rain Water harvesting – residential size! 750 gallon capacity



55

Storm Drain Stencil Program!



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Join the C@H effort!

- Over 1000 Homeowners enrolled
- Libraries, Schools, Churches, Dental office, Nature Centers !
- Subdivisions Also Certified
- Franchise started – C@H Trademark!
- There ARE things you can do to help the environment!



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Downers Grove Stormwater Incentive Program

Karen Daulton Lange, PE, CFM
Stormwater Administrator
Village of Downers Grove



Downers Grove Stormwater Improvement Cost-Share Program

Jim Tock, P.E.
Staff Engineer / Project Manager
Village of Downers Grove



What is the Program?

- Public/Private partnership meant to mitigate drainage issues on private property
- Professional and financial assistance provided by Village



Eligible Drainage Issues

- Any drainage issue as defined in the policy (Priority 1, 2, 3, 4) that impacts two or more properties
- Typical applicant wishes to mitigate yard flooding
- Structure flooding NOT a requirement



Ineligible Drainage Issues

- Conditions limited to one property
- Conditions caused solely by sump pump and/or downspout discharge



Eligible Improvements

- Rain gardens, cisterns, dry wells, etc.
- Connections to Village storm system via small-diameter, rigid pipe

Ineligible Improvements

- Extensions of sump pump or downspout discharges
- Any improvements that begins before submittal of an application



Reimbursement

- Village will pay (reimburse) half of the costs associated with work on private property up to \$1,500, per applicant
- Total reimbursement cannot exceed \$10,000
- Village will reimburse 100% of costs associated with work within the Village right-of-way
- Dependent on available funds
 - Currently \$50,000 budgeted per year



Responsibilities of Applicant

- Provide Village proof of eligibility
- Obtain at least three quotes for improvement
- Set up contract with contractor
- Apply for stormwater permit
- Submit paid receipt to Village for reimbursement
- Maintain improvements on private property



Procedure

1. Site inspection and determination of eligibility
2. Discussion of project plausibility
3. Submit Cost Share Application (with signatures from at least two impacted property owners) with improvement plan
4. Submit at least three quotes for identical scope of work
5. Letter of approval from Village to Applicant stating exact reimbursement amount
6. Obtain stormwater permit from Village
7. Construct improvements
8. Site inspection and submission of paid receipt
9. Reimbursement



Example: 60ft² Rain Garden



Total Construction Cost = \$3,000

| Number of Applicants | Upfront Cost per Applicant | Net Cost Per Applicant |
|----------------------|----------------------------|------------------------|
| 2 | \$1,500 | \$750 |
| 4 | \$750 | \$375 |
| 6 | \$500 | \$250 |



Questions, Concerns, Comments

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Downers Grove Stormwater Education Workshop

Thank you for coming &
drive home safe!

