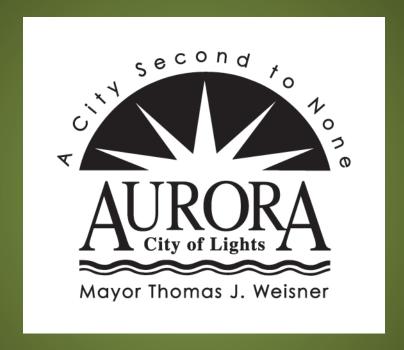
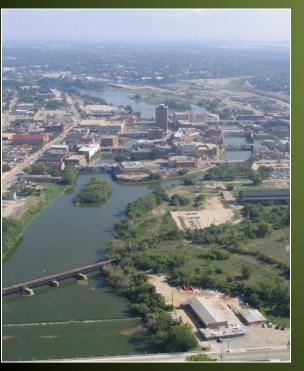
CITY OF AURORA



Storm Water Management

Program





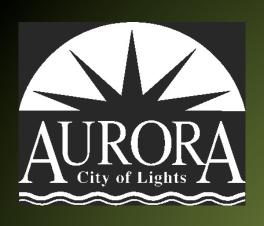


Aurora, Illinois

2nd most populous city in Illinois

POPULATION: 200,000

- Approx. 46 square miles in 4 counties (Kane, DuPage, Kendall, Will)
- Aurora's sewage is treated by the Fox Metro Water Reclamation District
- About 11 square miles are served by Combined Sewers



City of Aurora's Stormwater Program

- Floodplain Management
- New Development/Redevelopment
- MS4 Program
- CSO Long Term Control Plan
- Funding



Kane County Stormwater Ordinance

- Modified and Adopted by Aurora in 2001
 - Peak Flow Attenuation— 1% Annual Chance Storm
 - Construction Site Runoff Control
 - Post Development Stormwater Runoff Standards
 - BMP Technical Manual
- Protection of Special Management Areas
 - Floodplain/Floodway
 - Wetlands

My House Can't Flood – It's Not in a Floodplain

Solary covers, he disease at conspess

OTTY OF AURORA, ILLINOIS
RESOLUTION NO. | RESOLUTION NO.

A RESCLUTION ADOPTING THE CONSCER, TOWNSOND, ENVIRONDYNE, ENGINEERS, INC. STUDY OF THE CHAIN OF LAKES WATERSHED, DEHNING THE DNE HUNDRED YEAR SPECIAL FLOOD HAZARD AREA

WHEREAS, the City of Aurora has a population of more than 25 000 persons and is, therefore, a home rule unit under subsection (a) of Section 6 of Aside VII of the Illino. Constitution of 1970; and

WHEREAS, subject to said Section, a home rule unit may exercise any power and perform any function pertaining to its government and affairs for the protection of the public health, safety, morals and welfare; and

WHEREAS, the current Flood Insurance Rate Maps do not include the Chain of linkes watershed; and

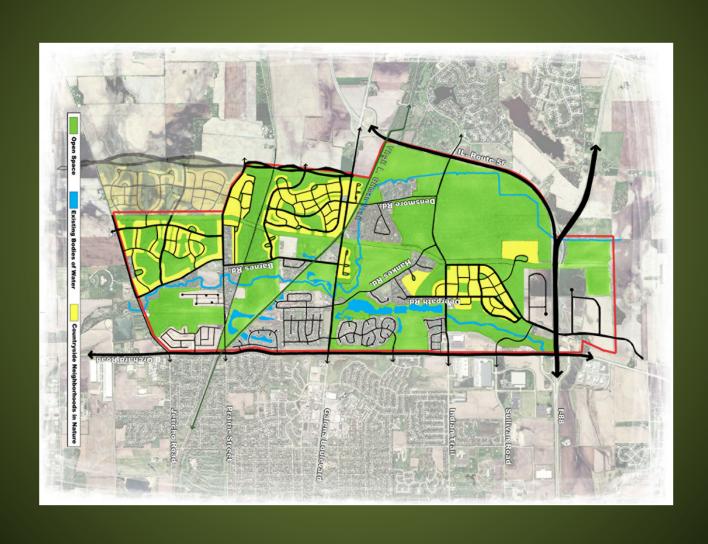
WHEREAS, repeated flooding has occurred in the Chart of Lakes watershed; and

WHEREAS, accurate mapping is needed, to regulate development within the watershoot; and

WHEREAS, the Consider Townsond Environdyne Engineers, the (CRE) attudy has been feviciwed and deemed reasonable by the City of Autoria:

NOW, THEREFORE, SE IT RESOLVED by the City Council of the City of Aurora, I hold that the Consider, Townsend, Environdyne, Engineers, Inc. Chain of Lake Study shall be adopted and used as the best evaluable data until FEMA or the State of illinois supersedes the study. All City ordinances governing building and land uses in the floodplain on the Flood Insurance Rate Maps shall apply to the floodplain mapped in the CTE Chain of Lakes Study.





Countryside Vision Plan Code Modifications

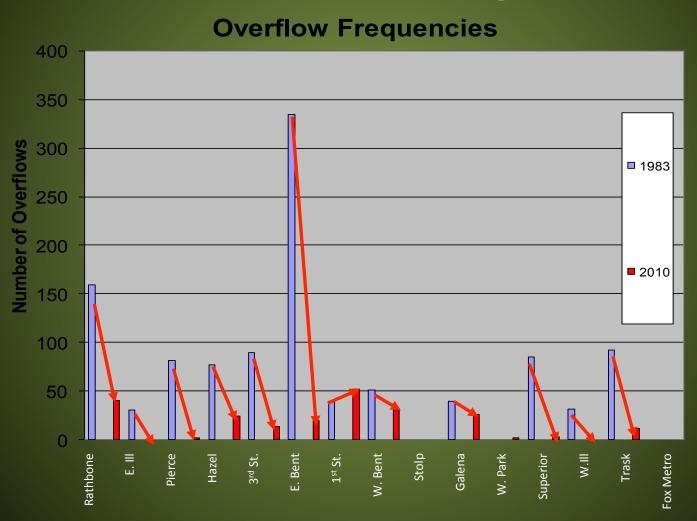
- 1. Lot Size: Perception vs. Reality
- 2. Clustering
- 3. 24' Roadway Width
- 4. 12" Concrete Ribbon Strip "Curbs"
- **5.** Decorative Street Lighting and Spacing
- **6.** Eliminate/Minimize Storm Sewers
- 7. Reducing Minimum Grading from 2% to 1%
- **8.** Creation of 'Open Space Setbacks'
- 9. Better Viewsheds Through Varying Setbacks
- 10. Reduction of Sidewalks in Favor of Trails
- 11. Inclusion of Natural Plantings in Landscape Standards







Aurora and Fox Metro WRD have invested over \$200M improving our CSS

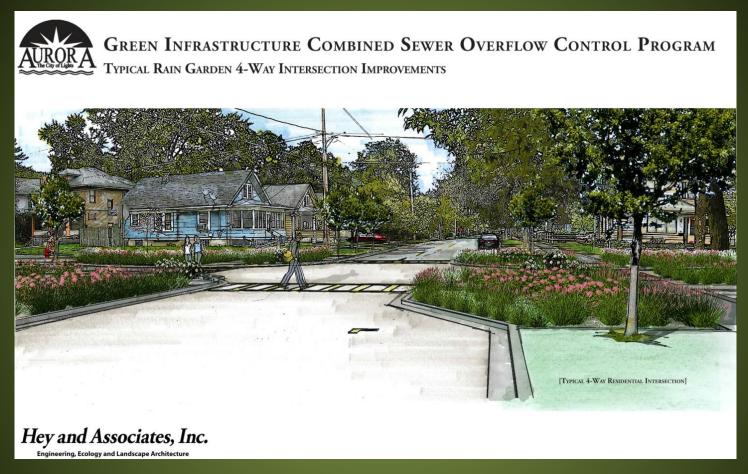


Overflow Identification

2010 ARRA McCarty Park Bioinfiltration Project Green Infrastructure Pilot Project



GREEN VS. GREY CSO CONTROL COST COMPARISON

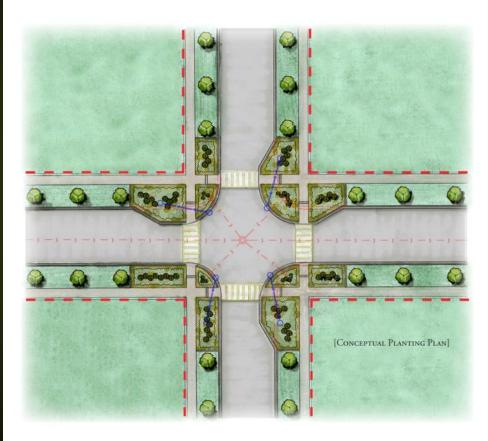


GREEN INFRASTRUCTURE ALTERNATIVE = \$2,470,000 GREY INFRASTRUCTURE ALTERNATIVE = \$4,850,000



GREEN INFRASTRUCTURE COMBINED SEWER OVERFLOW CONTROL PROGRAM

Typical Rain Garden 4-Way Intersection Improvements



Hey and Associates, Inc.

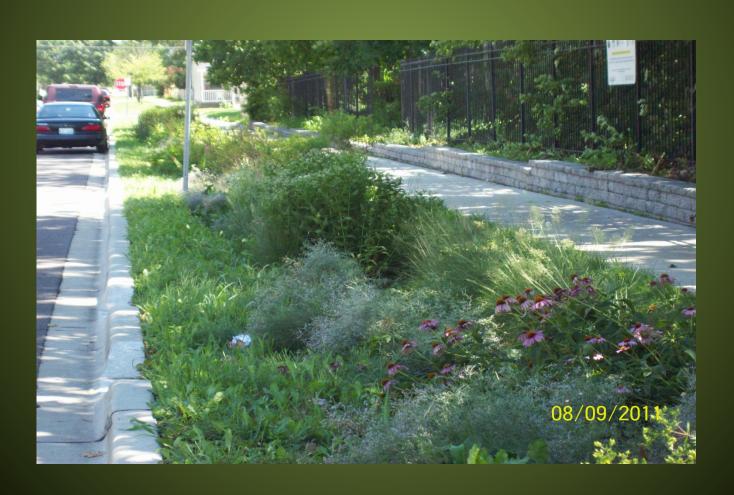
Engineering, Ecology and Landscape Architecture







Get The Public Involved Early In The Planning Process





Choose Site-Appropriate Planting Plan

SIMPLE, ORGANIZED

COMPLEX, NATURAL





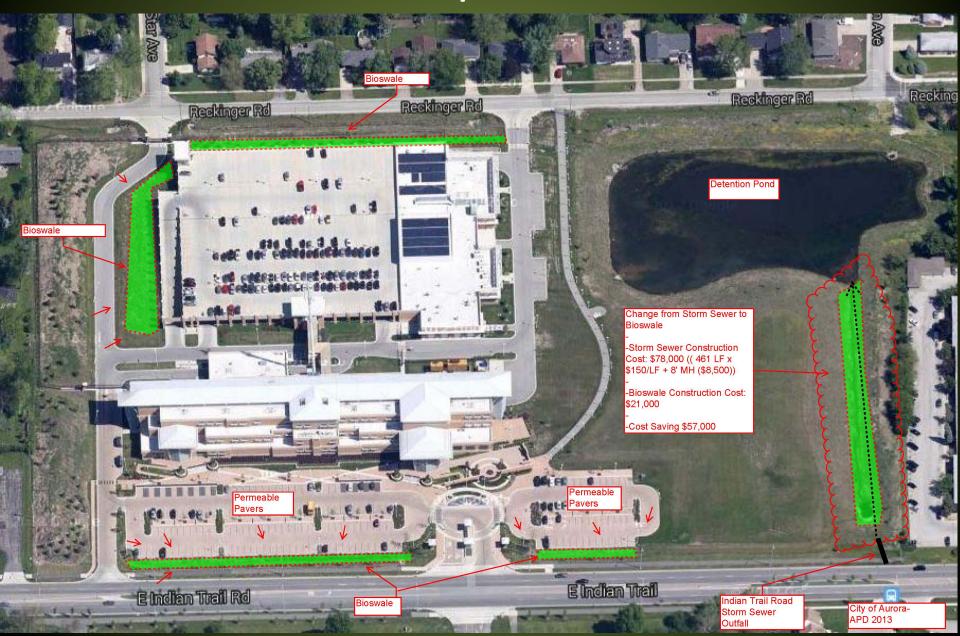


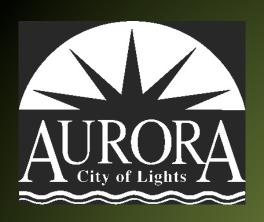


Grey infrastructure is an important <u>part</u> of the solution



Aurora Police Department Bioswale





Infrastructure

Water Treatment Plant Water source Heat Pump System



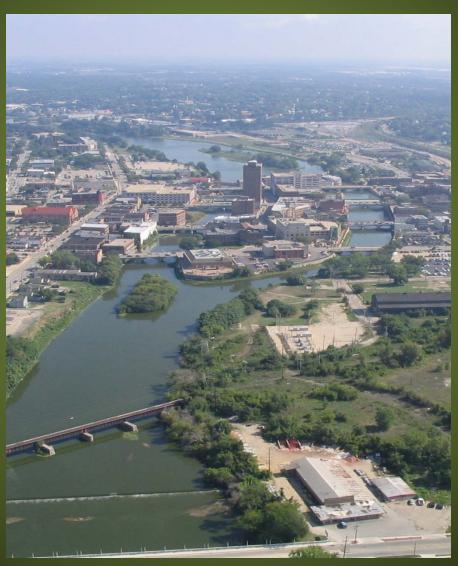
- Raw well water used as heat-source or heat-sink
 - Water then treated & used for potable supply
- Most economical alternative over life expectancy of units
- Carbon emissions reduced no natural gas combustion
- IL Chapter ASHRAE Excellence in Engineering Award

Every community needs a Champion



The Fox River in Aurora

The Next Generation



This has been a presentation of the Engineering Division of the Public Works Department for the CITY OF AURORA

