



1

Bloomington Sustainability Action Plan Environmental Quality and Natural Systems Working Group Meeting Four Notes (Part 1)

1 May 2018 City Hall 6 pm – 8:30 pm

Topic: Identify challenges regarding urban sprawl and climate change adaptation and propose

solutions.

Facilitator: Stephanie Richards

Computer notes: Steven Chybowski

Number of participants: 12 (Kriste Lindberg, Elizabeth Tompkins, Kathy Gutowsky, Steve Cotter, Jana McGee, Phil Peden, Jane St. John, Autumn Salamack, Stephanie Richards, Daphney Richemond, Farhana

Khan, Steven Chybowski)

Summary of Topics discussed

- Review goals and actions discussed in meetings two and three
- Background presentation of the current situation of Bloomington storm water management
- Identify challenges and solutions with storm water management
- Vote on the most important goals and actions discussed in the working group meetings

Detailed Notes

Introduction

- We will have remarks from Kriste and Phil from the Utilities Department for additional information
- We will conduct dot voting at the end of the meeting today to identify priorities

Review of Sustainable Community Definition and Vision Statement

- We like the new sustainable community definition much more than the original statement
- Wording at the end "to do the same" may not be necessary cut some wording from the end
- Make the vision statement shorter would be better
- Maybe "inspiring other leaders" is already implied by being a "leader"
- "Stable" or "thriving" may be a better term than "growing economy"
- Should "with the community" be rephrased as "within the community?" puts the City and the community as equal partners

Review of Recommendations from Meetings Two and Three

- The animal shelter does accept fish, so people do not need to dump aquarium fish
- We could still use an appropriate place to dump the water from aquariums
- We should check with Planning regarding allowed fence heights as they may have already adjusted it
- Hunting groups would also be a partner for deer management
- Hoosier Hills Food Bank would also be a partner for deer management
- Monarch butterfly way stations (not weigh stations)
- Change create a way of "reporting residents" to "create a way to report illicit discharges"

Sustainability Action Plan Environmental Quality and Natural Systems Working Group 4 Notes 1 May 2018

- Some grocery stores already do incentives for bringing your own bags
- We could also discuss the topic of reuse such as of local reuse of glass and plastic
- For example, using glass locally without going through an entire recycling process waste reuse

Presentation on Storm Water and Wastewater Management

- What are storm water planters? information from Green Building Alliance https://www.go-gba.org/resources/green-building-methods/stormwater-planters/
- We have an adopt-a-stream program for people to volunteer to monitor streams which could be promoted more. The information is reported to Hoosier River Watch as well as local departments

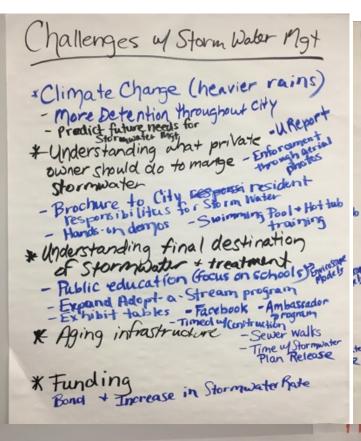
Presentation from Kriste Lindberg and City of Bloomington Utilities

- The City maintains storm water along the streets
- The City does not maintain infrastructure outside the public right-of-way along the street such as storm water in back and side yards
- 17 miles of ditches
- 4 miles of large box culverts
- 84 miles of storm water pipe
- Post-construction water quality if the construction site is over an acre
- 60/40 regulation from Planning new developments have to be 40% pervious surfaces only applies to specific overlays such as downtown
- Utilities and Cascades Park both have pervious surfaces demonstration sites
- Miller-Showers Park is another example of a demonstration site of water management
- Green Spots
- We have a storm water credit, but the financing is designed for commercial properties only
- Easiest place to collect water is at the low point
- City is not allowed to dam up streams by state regulations
- Miller-Showers provides huge benefits for storm water management
- Each spot that you can reduce the speed of water, it reduces flooding
- Planning already requires storm water and pollution prevention plans with construction
- Storm water quantity and storm water quality are two separate topics
- Environmental Resilience Institute is working to develop models of how climate change will impact Indiana communities and would be a good opportunity for Utilities to be involved
- Consultant hired by the County, Christopher Burke Engineering, gave an excellent presentation and report regarding Monroe County storm water

Challenges Related to Storm Water Management

- Climate change and increased incidences of heavy rain
- *Possible Solution:* More detention throughout the city
- Understanding what private owners should do to manage storm water
- *Possible Solution:* COB Utilities to explain the responsibilities to residents
- Possible Solution: Hands-on demonstrations
- Possible Solution: Swimming pool and hot tub training
- *Possible Solution:* UReport
- Understanding final destination of storm water and the lack of storm water treatment
- Possible Solution: Public education (focus on schools when kids are young and get excited)
- *Possible Solution:* Expand the adopt-a-stream program
- Possible Solution: Exhibit tables at all possible festivals and events
- Possible Solution: Expand City ambassador programs
- Possible Solution: More education timed with construction when underground infrastructure is visible
- Possible Solution: Sewer walks
- Possible Solution: More COB Utilities storm water plan education about the bigger impact for the public

- Aging infrastructure
- Funding is an issue in particular with the Jordan River culvert
- Possible Solution: Bond and increase in storm water rate
- Number of pervious surfaces and the speed of water
- *Possible Solution:* Increase detention requirements
- Possible Solution: Pervious paving and surfaces
- Possible Solution: Incentive for "no mow" lawns
- Possible Solution: Storm water collection for domestic use
- *Possible Solution:* Curb-less streets water drains off into trench drains and into depressed flowerbeds (Was proposed for the Trades District)
- Possible Solution: Group installations of pervious paving
- Possible Solution: Rain garden tours (Green Spots)
- Possible Solution: Combine tours with home show
- Possible Solution: Plant large trees that are good at absorbing water (Bald Cypress)
- Possible Solution: Speed of water slowed with daylight streams and educational signage
- Restrictions on detention which comes from the state level
- Storm water credit for pervious paving is only effective for commercial properties
- *Possible Solution:* Revise storm water credit to be applicable for residents as well
- Complacency
- *Possible Solution:* Creating incentives for green development
- *Possible Solution:* Green building requirements or incentives (LEED is often a motivating factor for green roofs)
- Residential affordability
- Possible Solution: Fee for storm water towards grants
- Possible Solution: Nonprofit financing for low-income individuals
- Emergency management concerns of quantity of storm water
- Possible Solution: Emergency action plan for flooding
- Possible Solution: Vulnerability assessment and climate adaptation plan



Number of Porvious Sets to Surfaces

**Number of Porvious Sets Surfaces

- Planting large trees and Cypness

- Pranting large trees and Cypness

- Previous Paving + Surfaces (e.g. Part)

- Pervious Paving + Surfaces (e.g. Part)

- Pervious Surface Requirements

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(e.g. Can't Dom Stream)

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- Coupstream to Influence

- New Development Retention Requirements

- New Development Retention of Bike Tour

- Combine w/ Home Show

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- Stormwater Credit for Storm Conductor Requirements

- The Provious Paving (need to revamp program) to make accessible for residents

- Incentive fer "No Mow" lawns

- Stormwater Store for obmestic use

- Curbless Streets (eg Trades District)

Complacenty

- Creating incentives for
green development

- Green building requirements

- Combine w/ Green Building

Certification

Residential Affordability

Fee for Stormwater towards

- Nonprefit financing for lowincome individuals (e.g. CSL)

*Speed of Water

- Speed of water slowed w/

- Speed of water slowed w/

daylight streams + educational

signage

*Emergency Mgt-Concurs w/

Puntity of Stormwater

- Emerging Action Plan

for thooding

- Vulnerability Assessment &

Climate Adaptation Plan

Climate Adaptation Plan

Storm Water Management

Goals:

- Increase number of intolerant species present in streams
- Improve storm water quality
- Reduce number of illicit discharges
- Reduce number of UReport complaints
- Reduce SSO events
- Reduce number of illegal connections to SSO

Partners:

- IU
- MCCSC and other school districts
- Monroe County Soil and Water
- Monroe County Solid Waste Management District
- Neighborhood associations
- IDEM
- SWEET storm water environmental education team
- Monroe County
- Habitat for Humanity

Metrics:

- Hoosier River Watch data
- Number of intolerant species
- Number of illicit discharges
- Number of UReport complaints
- SSO events
- Number of illegal connections to SSO

Stormwater Management

Improve stormwater givity

Goals: Discrease number of intolerant
species present in streams

Metrica: Hoosier River watch data?

Basiline of year TISD

Annount Green Infrostructure

Reduced no. illicit alsocharges

Reduced no. Ukepart complaints

Reduced SSO events - Reduced # illegal connections

The Neighborhood

Assoc.

MCCSC

MCSC

MCSC

Mossimo

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Milettsville, County

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