

Environmental Advisory Board

Meeting Agenda

February 26, 2025 3:00 P.M. Centennial II HR Conference Room B 805 Central Avenue, Cincinnati, Ohio 45202 Virtual Attendance through Microsoft Teams

Order of Business

- I. Public Comment
- II. Call to Order
- III. Administrative Action*
 - Approval of January 29, 2025 Meeting minutes
- IV. Office of Environment and Sustainability Comments

V. Information/Updates

- Welcome to new Board Members:
 - Nayana Shah
 - Douglas Walton
 - Monica Perdomo
 - Emmy Schroder
- Thank you to all members who served during the 2024 year

VI. Items for Vote*

- Officer Elections:
 - Chair Nominees: Kylie Johnson, Van Sullivan
 - Vice Chair Nominees: Dave Schmitt, Nathan Alley
- Meeting Schedule for future meetings

VII. Presentations

• Green Infrastructure Accelerator – Sam Dunlap

VIII. Open Discussion

- Policy Comments
- Cincy on Track
- IX. Next Meeting
- X. Adjournment

*Board Action Requested

Agenda Packet Materials:

- Draft meeting minutes from 1/29/2025

Environmental Advisory Board Minutes of January 29, 2025

Members Present:

- In person: Ashlee Young; Dave Schmitt; Kylie Johnson; Van Sullivan
- Virtual: Andrew Musgrave; Ericka Copeland; Julie Shifman; Nathan Alley; Rico Blackman; Susan Sprigg

Members Absent: Chad Day; Diana Hodge; Tanner Yess

Staff Present: Oliver Kroner; Amanda Testerman; Katherine Keough-Jurs

<u>Meeting:</u> A meeting of the Environmental Advisory Board was held on January 29, 2025 at 3:00 PM at Centennial II HR Conference Room B, 805 Central Avenue, Cincinnati, Ohio 45202.

Meeting Agenda:

- I. Public Comment
- II. Call to Order at 3:08 PM
- III. Administrative Action*
 - Approval of December 18, 2024 Meeting minutes
- IV. Office of Environment and Sustainability Comments
- V. Information/Updates
 - New Board member updates: Applications have been provided to City Manager for review and approval. We hope to have these members attend the February meeting. Any member whose term ended in December 31, 2024 will remain a member until their position is replaced or re-appointed.
 - Officer Nominations
 - Kylie Johnson: Chair
 - Van Sullivan: Chair
 - Dave Schmitt: Vice Chair
 - Nathan Alley: Vice Chair
 - Elections will take place at the February meeting. Please contact Amanda Testerman & Erin Kabel with additional nominations for Chair & Vice Chair
 - Van Sullivan and Kylie Johnson met with Councilmember Nolan and Councilmember Owens in January.

VI. Items for Vote*

VII. Presentations

- Comprehensive Planning Overview, presentation by Katherine Keough-Jurs
- Proposed MSD Impervious Surface Fee, presentation by Larry Falkin

VIII. Open Discussion

Discussion on current impact to City and federal grant and loan funding after the executive order and memo regarding the temporary pause of agency grant, loan, and other financial assistance programs.

I. Next Meeting

- Wednesday, February 26, 2025 at 3:00 PM
- II. Adjournment at 4:31 PM



WE MOVE CINCY







GSI Accelerator Takeaways



Thanks to the Center for Regenerative Solutions







Goal- Orient EAB to:

The group

What we've learned

The resources

The work we've done

Collaborate on Solutions

Problems

UNPREDICTABLE RAINFALL



Extreme Rainfall Increasing Over U.S.

This chart shows the percentage of the land area of the contiguous 48 states where a much greater than normal portion of total annual precipitation has come from extreme single-day precipitation events.

EXTREME ONE-DAY PRECIPITATION EVENTS

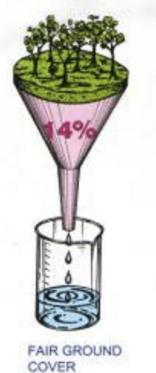
Contiguous 48 states, 1900-2015



PERCENTAGE (%) OF SURFACE RUNOFF ON A VARIETY OF SURFACES



GOOD GROUND COVER



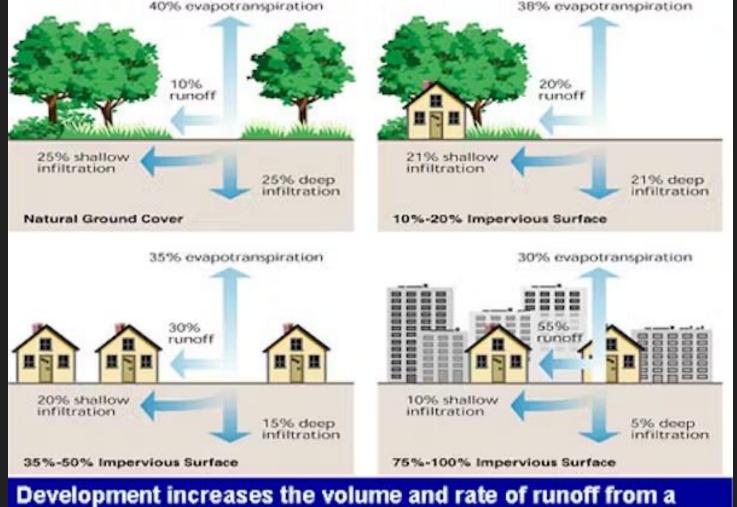




CONCRETE/BITUMEN SURFACE/IMPERVIOUS

POOR GROUND COVER

COVER



site, and reduces groundwater recharge and evapotranspiration.

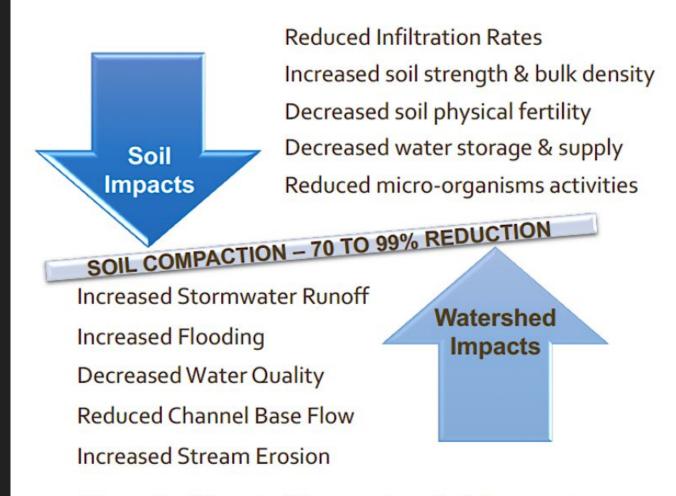


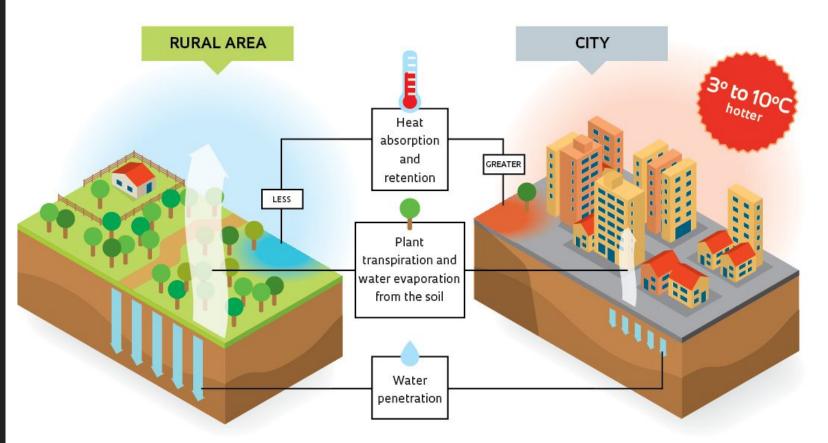
Figure 2 - Watershed Impacts from Soil Compaction



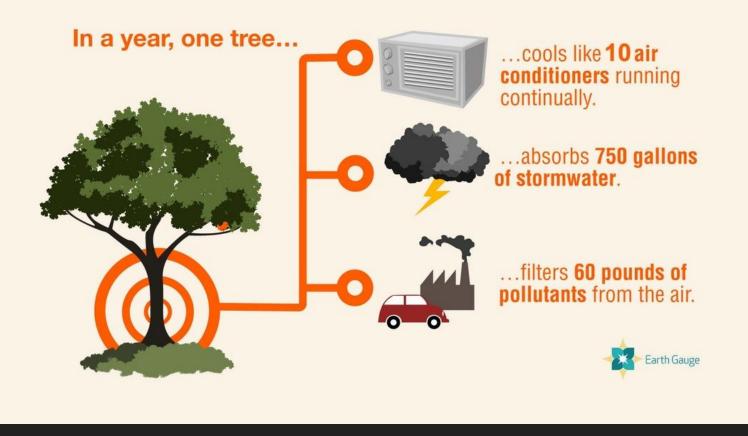
The Problems are Interconnected



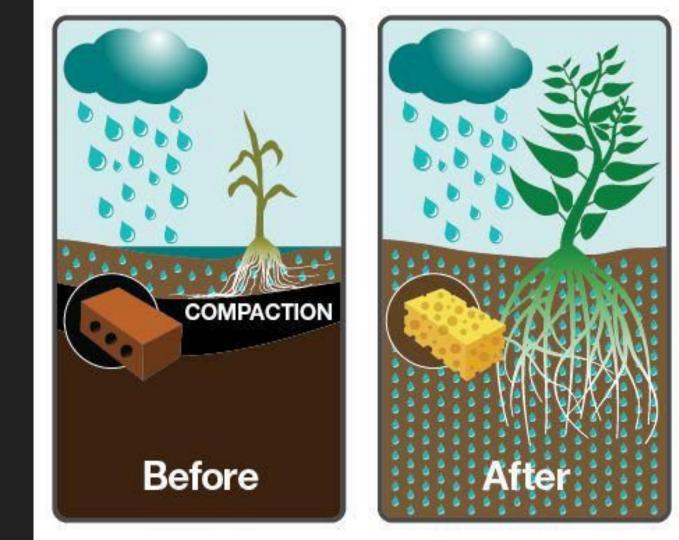
Why the urban heat island effect occurs



Cooling Trees- They're Not just Throwing Shade



Cooling happens at the nexus of water, soil and vegetation





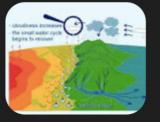
healthy soil has amazing water-retention capacity. increase in organic matter results in as much as gal of available soil water per acre.

Source: Kansas State Extension Agronomy e-Updates, Number 357, July 6, 2012

Solutions

Water for the Recovery of the Climate

"Water for the recovery of the climate" refers to the concept that by actively managing water systems and restoring natural wa-



ter cycles through practices like rainwater harvesting, reforestation, and regenerative agriculture, humans can significantly mitigate climate change by regulating local microclimates and reducing extreme weather events, essentially "healing" the climate through improved water retention on land.

Key points about this concept:

The "small water cycle":

This concept emphasizes the importance of the local water cycle, where rainwater infiltrates the soil, evaporates, and returns as precipitation, which can be disrupted by human activities like deforestation and intensive agriculture.

Addressing climate at the nexus of water, soil & vegetation

Water: Slow it, Sink it, Spread it

Modifying the design of the urban landscape such that it retains, infiltrates and purifies the water that falls. Allowing for the cooling engine to do its work

How to do it?

 \rightarrow Sponge Cities, Other terms that mean the same thing Essentially, Green Infrastructure

Seems like a straightforward concept, but as we all know, in the context of a city, it doesn't end up being so

Opportunities

What We Learned and Now have Access to: Models for...

Equity-based GSI

- Installation and maintenance across departments
- GSI as workforce development
- Funding mechanisms
- Different implementation models
- Policy
- Regulatory mechanisms

Resources from Other Cities

GSI design manuals, training, curriculum

Standards and specifications

Models to quantify the impact of different GSI elements

RFP Templates

Kate England, GIP, ENV SP

Director of Green Infrastructure (City of Boston)

Policy- all projects in ROW must include GI 5 Design options Maintenance process Volunteer program Maintenance contracts (1) porous pavement (2) landscape Maintain GI from all departments RFP process instead of low bid Stormwater Fee

Harambee Park (BPRD | Dorchester)



Jackson Mann Community Center (BCYF | Allston)

We're all in this together!

- GI Working Groups
 - Bi-monthly overall group
 - Three (3) subgroups: Coordination & Maintenance, Details & Specifications, Policy
- Capital requests for other departments' GI
 - e.g. \$5 mil for Cummins Highway GI (Public Works)
- Construct GI with other departments
 - BPL, BPRD, BPS, PWD

What We Have Done Since Accelerator

SWOT

Actions, next steps

Monthly meetings

Green Infrastructure Accelerator – Team SWOT 12/4/24

Strengths

- Existing knowledge and want to implement GSI
- many partners interested in GSI
- OES has a hub for green innovation and special projects
- community involvement in GSI can be popular
- workforce development: KCB & GWORV
- CSN
- Strong non-profit presence
- Mayor/council/Manager buy in on need for GSI/natural stormwater solutions
- GSI accelerator resources
- dashboards of analogue types of projects, urban forestry, UTC, and air quality
- GSI implementation model, MSD has much experience building and maintaining GSI
- Green umbrella as a convenor
- Willingness to partner with various organizations

Opportunities

- Federal grant \$
- Bipartisan Infrastructure Bil
- State funding H2Ohio or maybe Ohio River Basin Funding?
- Boston-like funding maintenance agreements
- Utilizing guidelines provided by webinars (taking approaches that other groups have and see how they fit in with our goals)
- · GSI impact hub for modeling and making the case
- · Create an innovative project that creates a new model for infrastructure
- Cinci Biochar as complementary initiative; need to highlight relevance for GSI
- GU Greenspace Alliance beginning to work with long-term planning a way to incorporate GSI initiatives
- Implementation on private property
- Stellar boots on the ground orgs that have expertise in GI maintenance
- Lots of land to implement GI
- Need more partnership projects
- Data and tools already exist to quantify the benefits and we could use these

Weaknesses

- No one central point of contact for City GI
- City department silos and interdepartmental silos
- Hesitation from utilities to piggy pack on other dept lead projects
- No central location of project information for GI projects already constructed (knowledge lost)
- No city catalog or map of all GSI assets (age, type, owner, status)
- No clear vendor or contract that we can use to maintain assets
- City wide design construction maintenance standards
- Grant funding then finding local match
- Creating a residential language for complicated info
- GSI as a budget item to departments who don't directly benefit
- No centralized fund for GSI or maintenance for depts to tap into
- GSI as a new maintenance item, lack of knowledge, care, budget, etc
- Lack of knowledge for how to plan for and maintain the assets

Threats

.

- Accessibility to funding
- funding for projects and maintenance
- IRA repeal possibility
- increasing storm severity and frequency more storm water runoff
- citizen opposition
- · developers can dictate their willingness to incorporate GSI into their projects
- We have not embarked on a large-scale GSI project before this is intimidating and partners might be unwilling to embark on the opportunity, but this can enable us to develop a system that addresses those concerns and works for our unique region

A Few Things to Highlight from SWOT- Strengths/Opps

Stakeholders assembled with an interest in pushing more GI forward OES hub for green innovation and special projects

Climate Safe Neighborhoods- mechanism for community engagement Areas for GI that we know would benefit MSD from a CSO perspective Workforce development partners interested in the maintenance work Technical experience with GI at MSD (but no funding for it for next 5 years) Research partners

Term contracts as models that multiple departments can pull from Biochar coming soon

Quick Spotlight on Biochar as a GSI Tool

Biochar as a complementary project Can offer significant stormwater benefits Need other departments bought in on biochar benefits to help make it as successful a project as possible

This is being done elsewhere: Scaling Biochar in the Chesapeake Stormwater manuals for WA State and Minnesota Several efforts to develop standards and specifications for use of biochar in stormwater applications



Back to the nexus of water, soil & vegetation

Urban soils can be difficult

Biochar is a tool for supporting water and life in the soil and above the soil

Every square foot of soil can be considered a GI opportunity- build the sponge!

As the problems are interconnected, so are the solutions

A sponge city is a city designed to absorb water and prevent flooding using green infrastructure. These cities incorporate natural features like parks, lakes, and trees, and use permeable surfaces and green roofs.



How sponge cities work

- Capture rainwater: Sponge cities use green infrastructure to capture rainwater and release it slowly into rivers and streams.
- Cool the city: During hot weather, the water stored in permeable surfaces evaporates and cools the city.
- Reduce flooding: Sponge cities can reduce peak river flows by up to 65%.

Actions/Next Steps

Communication & Outreach

Community outreach structure

Inventory of what's already here

ID Potential Pilot Projects

On City land and/or through other private/public partners who own land Maintenance

ID structure for maintaining GI assets (for multiple departments)

Financing

Utilize resources available through GSI Accelerator

ID opportunities for funding projects- grants, fees (impervious surface fee??)

Policy

Direction from Council on including GI in projects (ex- Complete Streets)

Ex from Boston- all new work in ROW must include GSI

What We Need

Signal and direction from Council that GI is a priority area for City A coordinated structure for moving it forward (we have the start)

Policy and funding to support the work

A holistic framework

GI as a climate management tool (as well as flood prevention, of course)

Approach climate from the nexus of water, soil, & vegetation



WE MOVE CINCY







How can we help?









Green Infrastructure Accelerator – Team SWOT 12/4/24

Ŷ į

	 Lots of land to implement GI 	
	 Stellar boots on the ground orgs that have expertise in GI maintenance 	
	 Implementation on private property 	
develop a system that addresses those concerns and works for our unique region	incorporate GSI initiatives	
partners might be unwilling to embark on the opportunity, but this can enable us to	 GU Greenspace Alliance beginning to work with long-term planning - a way to 	
 We have not embarked on a large-scale GSI project before - this is intimidating and 	 Cinci Biochar as complementary initiative; need to highlight relevance for GSI 	
 developers can dictate their willingness to incorporate GSI into their projects 	 Create an innovative project that creates a new model for infrastructure 	
citizen opposition	 GSI impact hub for modeling and making the case 	
 Increasing scorm severity and frequency more storm water runoff 	groups have and see how they fit in with our goals)	
· invitebeat possibility	 Utilizing guidelines provided by webinars (taking approaches that other 	
IDA reproducts and maintenance	 Boston-like funding maintenance agreements 	
 fundiar for projects and maintanance 	 State funding H2Ohio or maybe Ohio River Basin Funding? 	
Accessibility to funding	Bipartisan Infrastructure Bit	
Threats	 Federal grant \$ 	
	Opportunities	~
done by partners in the GSI working group; or through multi-dept maintenance contracts)		
including this as one piece of the larger workforce development programming already being		
 Lack of enough GSI assets for MSD to justify maintenance staff (this can be solved for by 	 Willingness to partner with various organizations 	
 No GSI in MSD budget for the next 5 years 	 Green umbrella as a convenor 	
 Lack of clarity around who maintains assets once mey have been installed 	maintaining GSI	
Lack of knowledge for now to plan for and maintain the assets	 GSI implementation model, MSD has much experience building and 	
 GSI as a new maintenance item, lack or knowledge, care, budget, etc 	quality	
	 dashboards of analogue types of projects, urban forestry, UTC, and air 	
GSI as a pudget item to departments who don't directly benefit	GSI accelerator resources	
Creating a residential language for complicated into a second secon	solutions	
Grant runding - then finding local match	 Mayor/council/Manager buy in on need for GSI/natural stormwater 	
City wide design construction maintenance standards	 Strong non-profit presence 	
 No clear vendor or contract that we can use to maintain assets 	• CSN	
 No city catalog or map of all GSI assets (age, type, owner, status) 	 workforce development: KCB & GWORV 	
 No central location of project information for GI projects already constructed (knowledge lost) 	 community involvement in GSI can be popular 	
 Hesitation from utilities to piggy pack on other dept lead projects 	 OES has a hub for green innovation and special projects 	
 City department silos and interdepartmental silos 	 many partners interested in GSI 	
No one central point or contact for City Gi	 Existing knowledge and want to implement GSI 	
	Strengths	

•

Need more partnership projects

Data and tools already exist to quantify the benefits and we could use these

Weaknesses

Action Brainstorm – from SWOT (1/13/2025)

Communication and outreach

- Need outlet for outreach & connection with the community (Margaux)
- Create central location of project information for GI projects already constructed & points of contact; catalog or map of all GSI assets (age, type, owner, status)

Potential projects/examples

- Create a map or understanding of hot spots where there are issues (NOAA data, landslide data and sewer back-ups)
- Create a space or outlet for reporting overland flooding? How does the County catalog this information?
 - Brand Lancaster, Tucson example from Portland, OR- looking at CSOs for hot spots/priority areas
- Create list of examples & recommendations from other Cities/Municipalities (from accelerator)
 - Include funding examples too
- Identify pilot sites for potential implementation on City controlled land and use modeling software to quantify benefits (software shown in accelerator session – GSI Impact Hub)
 - Identify types of infrastructure (curb cuts, bioretention swales, rain garden, etc.)
 - Have in location for CSN where community is already invested
- Inquiry to greenspace alliance members to GI research projects ~ help to identify pilot sites (Claire)
- Examples of projects that could happen in the ROW? What is possible?
 - Landscape design manual from Philadelphia in GSI Accelerator resources
- Other private/public partners that could get involved? (especially those who own lots of land) (County, UC, Schools, Hospitals)
- Seek opportunities to demonstrate the use of biochar as a stormwater management tool

Maintenance

- Maintenance agreements (MOU) of stormwater assets on City land (example DOTE builds, but would be maintained by other departments such as Parks or CRC)
- Term contract for maintenance of green-infrastructure assets (available for multiple departments)
 - Could be similar to the lawn & landscaping contracts currently used for mowing?
 - Is there additional funding for maintenance (grants or City funds?)
- Maintenance or landscape design guidebook (like Philadelphia)
- National GI maintenance certification program (bring to knowledge region)

Financing

- Utilize 'financial advisor' resource shown in accelerator to identify funding options for our area
- Create list for grant and funding resources that fits this work (Claire)
- Impervious Surface Fee maybe just in the city of Cincinnati...

Policy

- Policy direction from Council on including GI in projects (example complete streets) ~ Boston as an example
- Identify partner who is able to move more quickly (Zoo?) that could lead here
- Can all City buildings/properties/new developments in ROW include some kind of GI element?