The Water / Land-Use Nexus

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Why Water & Land-Use?

- Decisions on land-use can effect:
  - Water quality
  - Water supply
  - Flood mitigation
- Decisions on water can effect:
  - Development patterns
  - Post-construction requirements
  - Greenspace decisions

How Are Water & Land-Use Connected at the Water District?

- Action Items are not just limited to water:
  - Coordination Meetings
    - Land development / zoning
    - Septic system
    - Source water supply watersheds
  - Master Planning
  - Water Conservation & Watershed Ordinances
  - Nonpoint Source Pollution Management

Water & Land-Use Coordination Opportunities

- Green Infrastructure Strategy
  - Build on existing ARC GI Tool Kit & other plans
  - Look beyond site scale
  - Articulate multiple benefits
  - Provide ARC / Metro Water District a path forward
- Currently scoping the strategy
- Expect to engage a small, but diverse stakeholder group

Water & Land-Use Coordination Opportunities

Green Infrastructure at Four Scales

A green infrastructure approach can be applied across multiple scales that engage different stakeholders. It is important to distinguish between these scales in order to identify and foster the cross-co[illegible]tions and communications that are necessary to build on each element and create something that is larger, more i[illegible]onnected, and as a result, stronger and more sustainable.

When green is incorporated into infrastructure planning and implementation in a holistic manner, benefits come together for a healthy community, including:

- water quality
- air quality
- flood risk re[illegible]n
- property [illegible]e improvem[illegible]
- economic gr[illegible]
- public health be[illegible]s
- recreation
- community revitaliz[illegible]
- quality of life improvement
- urban heat island reduction
- urban agriculture opportunities

1. Site. At the [illegible]cale, green infrastructure features, typically a combination of vegetation and engineered syste[illegible]anage site stormwater.

2. Local. At the local scale, local communities or private entities manage local stormwater across multiple sites or within a watershed.

3. Regional. At the regional scale, green infrastructure is managed within a multi-jurisdictional region such as the Metro Water District, where broader-based planning across jurisdictions and critical conservation areas can be identified.

4. Megaregional. At the megaregional scale, state and national park systems, large reservoirs, and other features are managed and can provide a base for expansion of green infrastructure such as protected floodways and river corridors or trails.

A green infrastructure approach should build at multiple watershed sclaes, where every opportunity to cross-connect between different scales is evaulated to strengthen the long-term green approach.

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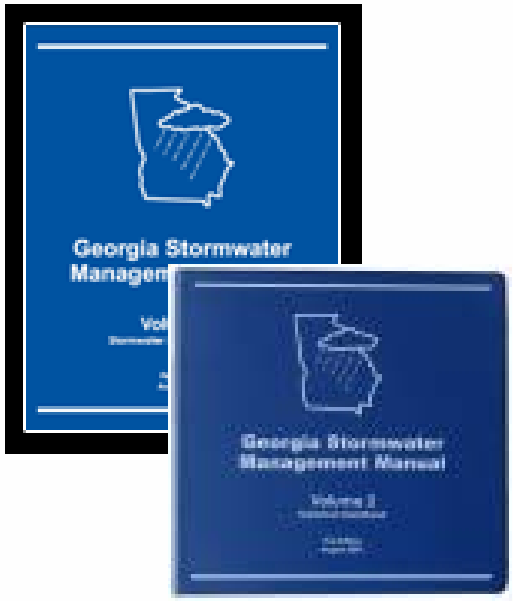
Water & Land-Use Coordination Opportunities

- Georgia Stormwater Management Manual Update
  - Integrates 2 methods for addressing stormwater
    - Total Suspended Solids Reduction
    - Runoff Volume Reduction
  - More and updated information on
    - Site scale GI / LID
    - Operations and Maintenance
    - Better Site Design
    - BMP performance
  - More training opportunities



Water & Land-Use Coordination

- Metro Water District Technical Assistance
  - Coordination meeting materials
  - Workshops and trainings
    - Stormwater & Development
    - Green Infrastructure Planning
  - Joint committee meetings
    - Watershed TCC & LUCC Summer 2016
  - Others as needed…

Questions?

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