



*A Golden Past. A Shining Future.*

Informational Presentation:

“Stormwater Local Design Manual”  
Update.

November 16, 2021



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## State Permit

County operates the Storm Drainage System (MS4) under a permit from the State through the National Pollution Discharge Elimination Systems (NPDES) program.

- This permit is updated every 5 years by the State (Georgia EPD), and the County must comply with the requirements in this Permit
- Updates to the stormwater ordinance (and local design manual) are a requirement of the current permit.

General NPDES  
Stormwater Permit  
No. GAG610000



AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
STORM WATER DISCHARGES ASSOCIATED WITH  
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Clean Water Act, as amended (33 U.S.C. 1251 et seq.), hereinafter called the "Clean Water Act," and the Rules and Regulations promulgated pursuant to each of these Acts, all new and existing stormwater point sources associated with small municipal separate storm sewer systems, upon submittal of a Georgia Notice of Intent, are authorized to discharge stormwater to the waters of the State of Georgia in accordance with the limitations, monitoring requirements and other conditions set forth in Parts 1 through Appendix B hereof.

This permit shall become effective on December 6, 2017.

This permit and the authorization to discharge shall expire at midnight, December 5, 2022.

Signed this 15 day of Nov 2017.  
*R. [Signature]*  
Director,  
Environmental Protection Division





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## Current Status

- “Water Resources Protection Ordinance” – Update Adopted by BOC on May 20, 2021
  - Ordinance went into effect November 5, 2021
  - The Ordinance directs users to the “Stormwater Local Design Manual” for Performance Criteria (e.g., design storms); however, the *current* Local Design Manual is from 2005 and most recent requirements from Georgia EPD are not included.
  - Until the *draft* Local Design Manual with the EPD requirements is adopted, designers will have to sort through the entire “Georgia Stormwater Management Manual” and the “Coastal Stormwater Supplement” for how to comply.



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## Water Resources Protection Committee

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- Formed in August 2021
- Chair – Commissioner Allen Booker
- Committee: Glynn County Commissioner, County Engineer, County’s MS4 Stormwater Consultant, Local Engineer, Local Attorney, Concerned Local Citizen, Local Non-Profit Environmental Group (2)
- County sought feedback from this group to review and edit “Stormwater Local Design Manual”



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## Committee Meetings

- Due to COVID-19 restrictions, there were Virtual Meetings, Email Correspondence & an Online Survey to seek feedback on the draft Stormwater Local Design Manual

### Timeline & Meetings:

- August 27<sup>th</sup> – Virtual, via MS Teams
- September 3<sup>rd</sup> – Virtual, via MS Teams
- September 20<sup>th</sup> – Online Survey
- September 30<sup>th</sup> – Virtual, via MS Teams
- October 15<sup>th</sup> – Requested Final Comments from Committee
- October 26<sup>th</sup> – Final Draft Submitted by Water Resources Protection Committee & County Engineer



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## “Performance Standards” Section Updates

- This section is new compared with current version (2005).
- The wording is consistent with that required from the County’s MS4 Permit with Georgia EPD.
  - These are the applicable parts of the Coastal Stormwater Supplement that need to be adopted.
- Pond sizing for peak flow control that was in “Design & Physical Requirements” section was moved here.
- Since 2005 (current version of the Local Design Manual):
  - Coastal Stormwater Supplement was created in 2009
  - Georgia Stormwater Management Manual was updated in 2016



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## “Design & Physical Requirements” Section Updates

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- Minor edits, including:
  - Formatting edits
  - Removing a few bullets that were redundant with items in the new “Performance Standards” section



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## “Hydrologic Methods” Section Updates

- Updated references to the current versions of the State & Coastal Stormwater Manuals
- Additional information provided for acceptable methods to calculate runoff rates and volumes
- Updated design-rainfall tables based on the most recent guidance from the State Stormwater Manual (NOAA Atlas 14: online resource)
  - Per feedback from the Committee, one rainfall table was selected to be used for the “Islands” and one for “Mainland” based on results from NOAA Atlas 14.

NOAA's National Weather Service  
Hydrometeorological Design Studies Center  
Precipitation Frequency Data Server (PFDS)

Home Site Map Organization Search [ ] NWS All NOAA Go

### NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: GA

Data description  
Data type: [Precipitation depth] Units: [English] Time series type: [Partial duration]

Select location

1) Manually:

a) By location (decimal degrees, use "°" for S and W): Latitude [ ] Longitude [ ] Submit

b) By station (list of GA stations): [Select station]

c) By address: [St Simons Island, GA, USA] X Q

2) Use map (if ESRI interactive map is not loading, try adding the host: <https://js.arcgis.com/> to the firewall, or contact us at [hdc.questions@noaa.gov](mailto:hdc.questions@noaa.gov))

Map [ ] Terrain [checked]

a) Select location  
Move crosshair or double click

b) Click on station icon  
 Show stations on map

Location information:  
Name: Saint Simons Island, Georgia, USA\*  
Latitude: 31.1595°  
Longitude: -81.3884°  
Elevation: 15.94 ft \*\*



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## Other Edits (by Section)

- “Water Quality” Section
  - Updated references to the current versions of the State & Coastal Stormwater Manuals
- “Stormwater Report Requirements” Section
  - Minor formatting updates to reflect new infiltration requirements
- Appendix A – Minimum Cover Heights
  - New version of this form to be included (previous was from 2005)
- Appendix B – Example Maintenance Agreement
  - Maintenance Agreements are required by Georgia EPD
  - No comments to date from County Attorney or attorney on Committee.
  - This agreement is similar to the one used by Garden City, GA.



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## Recommendations to Move Forward

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- Without an updated Local Design Manual, coordinating plan reviews for stormwater requirements will be difficult on County staff and designers to clarify the exact requirements.
- Recommendation:
  - Adopt the draft Stormwater Local Design Manual