Gwinnett

OFFICIAL MINUTES

Scott Batterton (absent), Rich Edinger, Babafemi Adesanya, Randy Strunk, Anita Atkinson, Robert Scott, Neil Schaap

GWINNETT COUNTY STORMWATER AUTHORITY OFFICIAL MINUTES

July 21, 2023; 2:00 P.M

I. Open Meeting

- a. Meeting called to order; quorum verified (Edinger)
- b. Approval: July 21, 2023, Meeting Agenda (Edinger)
 {Action: Approved; Motion: Scott; Second: Adesanya; Vote: 6-0}
 (Scott-Yes; Edinger-Yes; Schaap-Yes; Adesanya-Yes; Strunk-Yes; Atkinson-Yes)
- c. Approval: May 12, 2023, Meeting Minutes (Edinger)
 {Action: Approved; Motion: Scott; Second: Strunk; Vote: 6-0}
 (Scott-Yes; Edinger-Yes; Schaap-Yes; Adesanya-Yes; Strunk-Yes; Atkinson-Yes)

II. New Business

a. MS4 Annual Report Recap (Middlebrooks)

Reporting Period: May 1, 2022, thru April 30, 2023; annual report submitted to Georgia EPD: Provided overview of required inspections, maintenance, and monitoring data; no formal approval letter has been received from EPD since 2020 report.

Comments:

Discussion ensued on MS4 program components presented.

County reiterated Gwinnett is in good standing with all permits: drinking water, wastewater, etc.

b. UDO/GCSMM Revisions (Jones)

Reviewed upcoming UDOs relevant to Stormwater:

<u>Ch 500</u>: Riparian Buffers. Proposed reassigning stream buffer variances from Construction to Zoning Board of Appeals.

<u>Ch 630</u>: Tree Preservation/Replacement Regs. Ongoing updates to both tree and shrub options that are available for use in the county for landscaping; removed required preliminary site visit by county staff).

<u>Ch 700</u>: Floodplain Management. Amended standards for compensatory capacity. New clarification that no structures are allowed in limits of future build-out conditions of floodplain.

<u>Ch 800</u>: Stormwater Management. Added limitations to stormwater management facilities allowed in residential subdivisions.

Future GCSMM updates:

DWR will likely need to update the GCSMM to be consistent with the UDO.

Comments:

Discussion ensued on ordinance edits and questions.

c. 2023 Stormwater Projects Outlook (Jones)

Project Updates:

Active stormwater construction projects were reviewed and their status updated with the group.

Condition Assessment, Rehab/Replacement:

Pipe Condition Assessment: Pipes are inspected every 5 years. To date, 46 miles of pipe have been CCTV'd and 80 miles visually ("head-in-hole") inspected; 1,400 linear feet of pipe have been replaced and 9,500 linear feet pipe have been lined.

Comments:

Discussion ensued on project updates.

d. Stormwater Pipe Material Requests (Gurd)

DWR has received pipe material requests from several vendors; internal discussions are ongoing to include considering other materials.

Comments:

Discussion ensued on material types, supply chain issues, and variances.

III. Old Business

None

IV. Updates

a. ARPA Dams Projects update (Middlebrooks)

Presented proposed sites for funding and current status. ARPA funds must be obligated by end of 2024 and expended by end of 2026.

V. Audience Comments

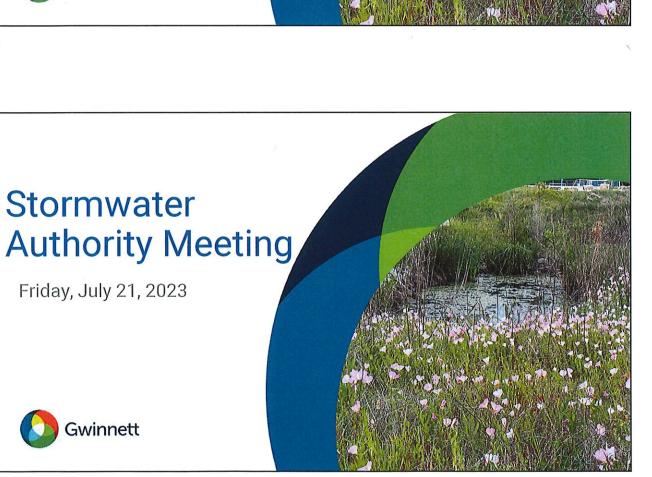
Cecil O'Connor, Concrete Pipe Association: pipe standards; GDOT

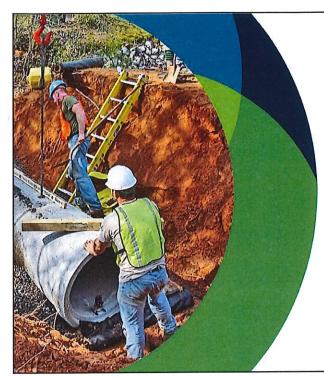
VI. Adjourn

{Action: Approved; Motion: Scott; Second: Shrunk; Vote: 6-0} (Scott-Yes; Edinger-Yes; Schaap-Yes; Adesanya-Yes; Strunk-Yes; Atkinson-Yes}

Welcome to the July 21, 2023 Gwinnett County Stormwater Authority meeting Please mute your phone unless speaking

Gwinnett







Agenda

MS4 Annual Report Recap **UDO/GCSMM Revisions** 2023 Stormwater Projects Outlook Stormwater Pipe Material Requests **Update: ARPA Dams Projects**



Kevin Middlebrooks Section Manager



Name of Permittee: Gwinnett County

- B. Mailing Address: 684 Winder Hwy, Lawrenceville, GA 30045
- C. Contact Person: Caitlan O'Keeffe Title: Water Quality Manager
- D. E-Mail Address: Caitlan,O'Keeffe@GwinnettCounty.com
- E. Telephone Number: 678-376-6907
- F. Reporting Period (May 1, 2022 through April 30, 2023)
- G. List any other party or parties (e.g. Keep America Beautiful affiliates) responsible for implementing the Storm Water Management Program (SWMP) or a program component during this reporting period. If not previously submitted, provide a Memorandum of Agreement: <u>Owinnett Clean & Beautiful</u>.

I certify under penalty of law that this document and all attachments were prepared with direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

MS4 Annual Report: Inspections

- · 12,631 Catch Basins
- · 312 miles of Pipe
- · 40 miles of Ditches
- 75 Detention Ponds
- 127 Outfalls (Dry Weather Screening)
- · 23 Industrial Facilities
- 165 HVPS Facilities
- 18 Municipal Facilities
- · 5,101 Constructions Sites





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MS4 Annual Report: Maintenance

- 2,305 miles of Street Sweeping
- 82 Catch Basins
- 9.7 miles of Ditches
- 6 Detention/Retention Ponds
- 2 miles of Storm Drain Lines





MS4 Annual Report: Monitoring

- Sample over 40 water bodies
- Over a dozen parameters sampled
- Approximately 1,000 sample events per year
- 127 Illicit Discharge & Illegal Connection Work Orders completed









Rachel Jones, SW Portfolio Manager





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UDO Updates

Chapter 500. Riparian Buffers

Reassigned stream buffer variances from the Board of Construction Adjustments and Appeals to the Zoning Board of Appeals to increase public involvement. Aligned public notice procedures with other variance types.

Chapter 630. Tree Preservation and Replacement Regulations

Added additional requirements for tree canopy calculations. Updated references to current tree species list, newly created shrub species list, and prohibited plant species list. Removed the requirement for preliminary site visits by county staff related to specimen tree surveys since these surveys are created by a licensed professional.



UDO Updates

Chapter 700. Floodplain Management

Restructured chapter to be more user-friendly. Added additional requirements for floodproofing certification. Amended standards for the compensation for storage capacity, verification of no-rise conditions, changes to the base flood elevation, and development in the floodplain. Added requirement that no structures shall be allowed in the limits of the future condition floodplain. Added standards for manufactured homes, elevating structures in the floodplain, and building standards for areas of shallow flooding.



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UDO Updates

Chapter 800. Stormwater Management

Added requirements for impacts on downstream properties. Added limitations to the types of stormwater management facilities allowed in residential subdivisions.

800-60.8 In a residential subdivision, the following stormwater management facilities are not permitted:

- 1. Oil-Grit Separator
- 2. Organic Filter
- 3. Proprietary Devices
- 4. Sand Filters
- 5. Underground Detention
- 6. Or any additional BMP's deemed unacceptable by Planning & Development.



Future GCSMM Updates

- UDO driven
 - · BMP easements and access easements
 - BMPs appropriate for residential use
 - Gwinnett County Stream Buffer Mitigation Bank Guidance
 - Tree List (future)
- · As-built review driven
 - Permanent pool drain on walled ponds



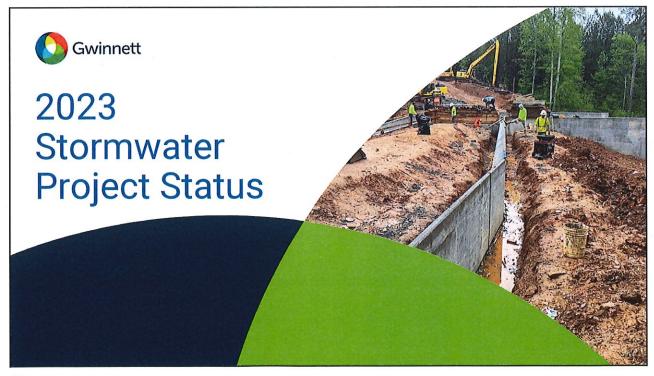
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Future GCSMM Updates

- General issues
 - "Guidance" and "suggestion" language
 - · Should vs shall
 - Minor cleanup













2023 Stormwater Projects

Stormwater Condition Assessment, Replacement and Rehabilitation

- Pipe Condition Assessment Completed to Date:
 - · 46 miles lamped
 - 80 miles visually inspected
- Pipe Replacement Completed to Date: 1,400 linear feet
- Pipe Lining Completed to Date: 9,500 linear feet







SW Pipe Material Requests

- ADS HP Storm Pipe
 - High Performance Polypropylene
- Contech Duromaxx
 - Steel Reinforced Polyethylene Pipe
- Concrete Pipe Association



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Gwinnett County Storm Sewer Pipe Standards

- Approved in 2018
- Based on GDOT Standards at the time
- DWR does not currently consider variances for pipe material.

	Pipe Ma	9	3 - N - N -	Metal Pipe		Plast	c Pipe
Pipe Type Specifications (Ser Note 1)		Reinforced Concrete Pipe	Aluminized Type 2 Steel	Polymer Procont Steel	Aluminum Alloy	Corrugated Polyethylene	Smoothed Lines High Density Polyethylene Type 'S'
		ASIM C76, AASIHO M170	ASTM A760, A929, AASHIO MI6, M274	ASTM A742, A762; AASHTO M245, M246	ASTM B744, B745; AASHTO M196, M197	AASIITO M252	ASIM F- 2306, AASHI C M294
Misimu	s/Class	111	14 Ga	14 Ga	14 Ga.	AASHTO M252	AASHIO M294
Longitud	on Type	X			X		X
Longitod	Cross	- 1	X	X			
Public Read ADT <5000	Drain < 10% Slope	x	x	x	x		X
	Cross Drain > 10% Slope			x			x
Public Road ADT ≥5000	Cross Drain < 10% Slope	x					X (See Note 2)
	Cross Drain > 10% Slope			x			X (See note 2)
Lateral S	ystems	X	X	X	X		X
Slope Drain			X	X	X		X
Perforated Underdrain			X	x	X	X	X
Damo		X					
Perennial Streams		x					
Minimum Allowable Design Velocity		2.5 fps	2.5 fps	2.5 fps	2.5 fps	:	2.5 fps
Maximum Allonable Design Velocity		15 fps	15 fps	15 fps	15 fps	:	15 fps

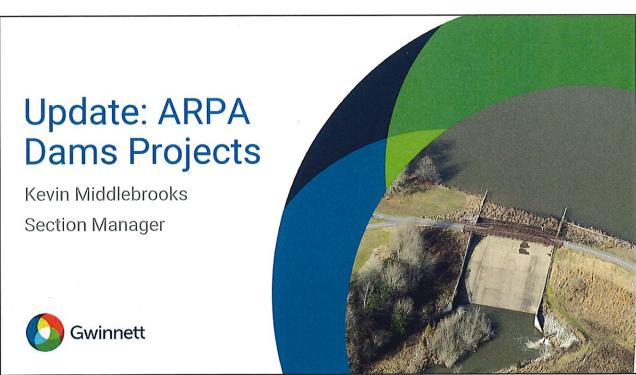


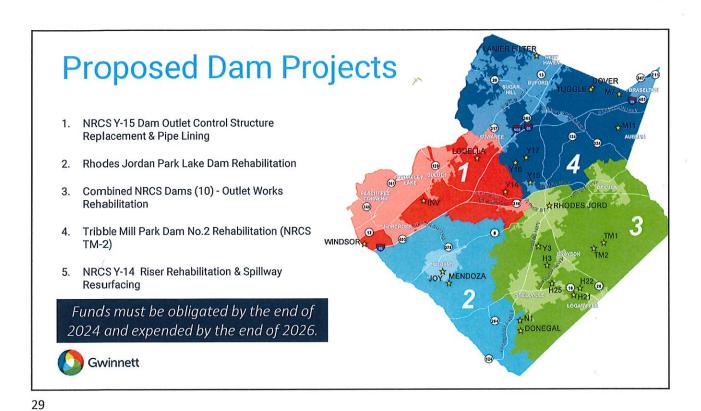
GDOT Pipe Selection Guidelines Table 7.3—Selection Guideline for Culvert, Slope, and Underdrain Pipe INSTALLATION TYPE STORMDRAN HON-TRAVEL BEARING (Outside Roadbed) TRAVEL BEARING (Inside Roadbed) PIPE TYPE GRADE ≤ 10% Hon-Interstate ADT > 1500 < ADT > 5000 < ADT > 15,000 6000 15,000 & Interstates Concrete Pipes Section 843 Reinforced Concrete AAS HT 0 M 170 NO YES YES YES NO NO YES YE8 YES YES Steel Pipes Section \$34 ee Table 1 below for Site Condition Restrictions YES YES Corrugated Steel Plain Zino Coated AAS HT O M 38 NO NO NO NO NO NO YES YE8 YES Polymer Coated Steel AAS HT 0 M 245 NO YES YES YES NO YES YES NO Aluminum Alloy Pipes Section \$40 ee Table 1 belowfor Site Condition Restrictions Corugated Aluminum AAS HT 0 M 198 YES YES YES NO NO YES YES YES Thermoplastic Pipes Section 845 Corrugated HDPE AAS HT 0 M 252 NO NO YES NO NO NO NO NO NO NO Coavgated Smooth Lined HDPE AASHTO M 294 Type '5' YES YES YES YES YES YES YES NO YES NO rugated Smooth Lined Polypropylene AAS HT O M 330 YES YES YES NO YES NO YES YES YES Gwinnett PVC Corugated Smooth Interior ASTM F 849 YES YES NO YES NO YES YES YES YES PVC Pro file Wall YES NO YES МО YES YES YES

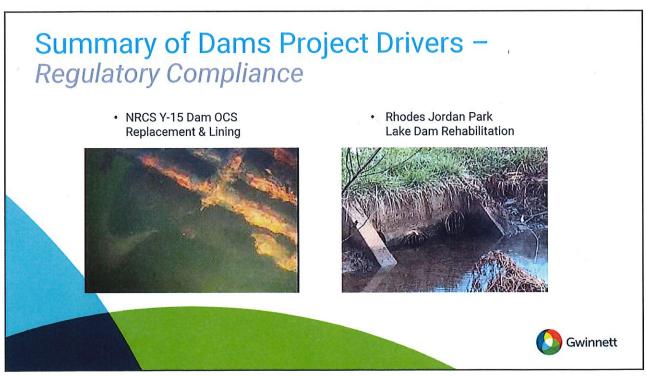
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Table 7.3—Selec											
Table 7.3—Selec		Value of the last					VILLE IN CO.		NAME OF TAXABLE PARTY.	87 US	
ALL SHEEDS AND THE SHEETS	tion Gui	deline fo	r Culven	t, Slope, a	and Und	erdrain l	Pipe				
	INSTALLATION TYPE										
	STORM DRAIN TRAVEL BEARING (Inside Roadbed)				HON-TRAVEL BEARING		SIDE DRAIN	PERMANENT SLOPE DRAIN	PERFORATED UNDERDRAIN		
PIPE TYPE	GRADE ≤ 10%					(Outside Roadbed)					
	ADT < 1500	-		ADT ≥ 15,000 & Interstates	Grade> 10%	Interstate	Non- Interstate		ENT	RAIN	
Concrete Pipes Section 843											
Reinforced Concrete AAS HT 0 M 170	YES	YES	YES	YES	NO	YES	YES	YES	МО	NO	
Steel Pipes Section 834	See Table 1 bel	lowfor Site Cond	ition Restrictions			1911			12/8/2	E COL	
Corrugated Steel Aurninum Coated (Type 2) AAS HT O M 36	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES	
Corrugated Steel Plain Zino Coated AAS HT 0 M 38	NO	NO	МО	NO	NO	МО	NO	YES	YES	YES	
Polymer Coated Steel AAS HT O M 245	YES	YES	ИО	NO	YES	МО	YES	YES	YES	NO	
Aluminum Alloy Pipes Section 840	See Table 1 bel	lowfor Ste Cond	Ition Restrictions					Pigrall			
Corugated Aluminum AASHTO M 195	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES	
Thermoplastic Pipes Section 845			and the same	- Indiana		No.			336		
Corrugated HDPE AAS HT O M 262	NO	NO	NO	NO	NO	-NO	NO	NO	NO	YES	
Corugated Smooth Lined HDPE AASHTO M 204 Type "S"	YES	YES	YES	NO	YES	МО	YES	YES	YES	YES	
Corrugated Smooth Lined Polypropylene AAS HT O M 330	YES	YES	YES	NO	YES	МО	YES	YES	YES	YES	
PVC Corugated Smooth Interior ASTM F 949	YES	YES	YES	NO	YES	NO	YES	YES	YES	YES	Gwinnett
PVC Profile Vall	YES	YES	YES	NO	YES	NO	YES	YES	YES		











- · Tribble Mill Park Dam No.2 Rehabilitation (NRCS TM-2)
- Outlet Works Rehabilitation

· Combined NRCS Dams (10) -

 NRCS Y-14 Riser Rehabilitation & Spillway Resurfacing





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Project Status

Project	Construction Schedule	Cost Estimate	Status
NRCS Y-15 Outlet Control Structure Replacement	6 to 8 months	\$1,970,000	BoC date 7/18
Combined NRCS Dams (10) - Outlet Works Rehabilitation	10 to 12 months	\$5,000,000	Bids to be received 7/25
NRCS Y-14 Riser Rehabilitation & Spillway Resurfacing	6 to 8 months	\$1,000,000	RCC Spillway Resurfacing Design to begin late July 2023
Rhodes Jordan Dam Rehabilitation	3 to 8 months	\$500,000	Project Scoping Report
Tribble Mill Park Dam No.2 Rehabilitation (NRCS TM-2)	6 to 8 months	\$1,500,000	Project Scoping Report
TOTAL		\$9,970,000	



