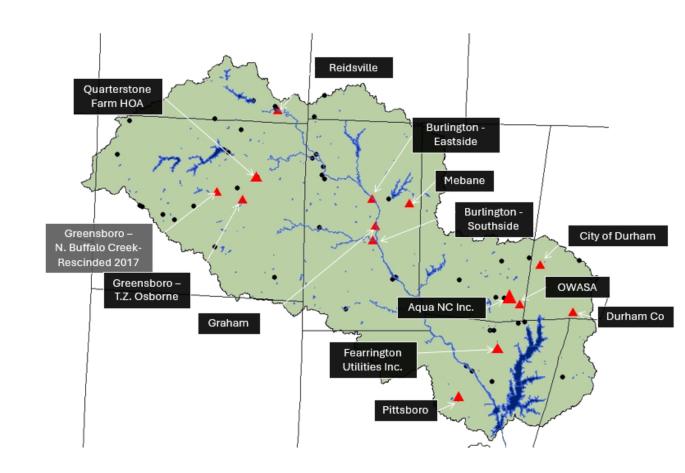


### **Jordan Nutrient Rules: HAW Wastewater**

Mike Templeton, Rich Gannon, and Ellie Rauh May 27, 2025



**Introductions:** please state name and affiliation, relation to Jordan wastewater regulations.



## Agenda Introductions 3:00pm • Rule Background and Readoption Schedule Lake Model Overview Reduction Scenario Excel Tool 3:20pm Questions and Discussion Close 4:00pm

#### **Jordan Rule Readoption Process**

- The Jordan Nutrient Rules first implemented in 2009 required nitrogen and phosphorus effluent discharge limits in municipal wastewater NPDES permits. Limits were based on a Jordan Lake model.
- In 2018, General Assembly mandated a new Jordan Lake model (SL 2018-5), completed in 2024. Model demonstrates additional reductions are needed to meet a 10% exceedance of the 40ug/l chl-a standard.
- Jordan Rule Readoption is a mandated readoption every 10 years. We are at the end of the last cycle and must readopt Jordan rules.

## **Jordan Rule Readoption Schedule**

Jordan Rules Readoption Tasks & Milestones	Nov 2023- 2024	2025						2026						2027						
		Q1		Q2	Q	(3	C	<b>ļ</b> 4	Q1		Q2		Q	3	Q	<b>)</b> 4	q	1	Q	<b>Q</b> 2
Informal Stakeholder Input Process																				
Technical Advisory Groups																				
Rule Drafting & Informal Stakeholder Review																				
Finalize Draft Rule Revisions																				
Develop Fiscal Analysis / OSBM Approval																				
DWR Formal Rulemaking Process																				
WQC: Present Draft Rules & Fiscal Analysis																				
EMC: Request to Proceed to Public Comment																				
Public Comment Period																				
Hearing Officer Meetings / Revise Rules																				
EMC: Present Final Rules for Approval																				
RRC: Review & Adoption																				

Station Set: Haw Stations

Nitrogen Loading Reduction (%)

P loading reduction (%)

	Wittogen Loading Reduction (70)												
	0%	10%	20%	30%	40%	50%	60%	70%					
0%	0.21	0.20	0.18	0.17	0.16	0.16	0.17	0.10					
10%	0.19	0.18	0.16	0.15	0.14	0.14	0.15	0.10					
20%	0.16	0.15	0.14	0.13	0.12	0.12	0.12	0.09					
30%	0.13	0.12	0.11	0.09	0.08	0.09	0.09	0.07					
40%	0.10	0.10	0.08	0.07	0.06	0.05	0.05	0.05					
50%	0.09	0.08	0.07	0.06	0.05	0.03	0.03	0.03					
60%	0.08	0.08	0.06	0.05	0.04	0.03	0.02	0.02					
70%	0.07	0.07	0.05	0.04	0.03	0.02	0.01	0.01					

- 30% N and 30% P
- 20% N and 40% P

Studies outside the model
 show that its better to have a balance between N and P management for algal dynamics and impacts on both freshwater and marine systems.

Any new reduction goal will have a new baseline of 2014-2016.

Go to Draft Scenarios

#### **Questions and Discussion**

- Questions on the rule readoption process and timeline
- Questions on the lake model results
- Discussion on what how many permit cycles will be needed to reach a 20% N and 30% P reduction from 2014-2016 baseline

# Please send me any comments. Thank you!

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