St. Johns River Water Management District

SURAND Minimum Flows and Levels Program Agenda Item 9

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Statutory Directive

Water management districts must establish MFLs that set...

"...the <u>limit</u> at which further <u>withdrawals</u> would be <u>significantly</u> <u>harmful</u> to the water resources or the ecology of the area."

Section 373.042(1), Florida Statutes (F.S.)



Statutory Directive

"...consideration shall be given to... <u>non-consumptive</u> <u>uses</u>, and <u>environmental values</u>..." 62-40.473, F.A.C.

- Recreation in and on the water
- Fish and wildlife habitats and the passage of fish
- Estuarine resources
- Transfer of detrital material
- Maintenance of freshwater storage and supply
- Aesthetic and scenic attributes
- Filtration / absorption of nutrients and pollutants
- Sediment loads
- Water quality
- Navigation



De Leon Springs Minimum Flow

Based upon manatee habitat requirements







MFLs Determination MFLs are Events Magnitude, Duration and Frequency





Lake Level / River Flow



amount available

MFLs Status Assessment

Current Status of MFLs

- Model used to determine effect of current water withdrawals
- Determine water availability (freeboard)

Future Status of MFLs

- Calculate the future projected water demands
- Use model to determine if projected water use will cause the MFL to be violated



Prevention and Recovery Strategies





Prevention and Recovery Strategies

Stakeholder participation



Tech support to stakeholders



Engineering analyses



Cooperative funding







SJRWMD MFLs

- Program began 1990
- 124 MFLs
 - 101 lakes
 - 6 rivers
 - 7 wetlands
 - 10 springs
- 30 reevaluations

2016-17 MFLs Priorities

Year 2016

Year 2017

Water Body Type	Water Body Name	County	Water Body Type	Water Body Name	County
Rivers			Rivers	Alexander	Lake
				Springs Creek	
Aquifers	De Leon	Volusia		Silver River	Marion
(springs)	Springs		Aquifers	Alexander	Lake
Lakes			(springs)	Springs	
Re-	Cowpen	Putnam		Gemini	Volusia
evaluations				Springs	
				Silver Glen	Marion/Lake
				Springs	
				Silver Springs	Marion
			Lakes		
			Re-	Brooklyn	Clay
			evaluations	Lake	
				Lake Geneva	Clay
				Lake Sylvan	Seminole



Questions?

