

Discharge Coordination Protocol between the St. Johns River Water Management District and the St. Johns Improvement District

I. Objective

To establish an operating/communication protocol which will enable the two adjoined systems to operate without having an adverse affect on the opposing system. The following protocol will enable St. Johns Improvement District (SJID) to preemptively discharge into the St. Johns River Water Management District (SJRWMD) system on a as needed basis determined by SJID.

II. Background

The St. Johns Improvement District (SJID) is located in Indian River County and operates a 1,750-acre reservoir, along with an associated flow-way and water control structures, that stores and releases water either back into their agricultural lands for irrigation, or offsite into the C-52 Canal and into the Blue Cypress Water Management Area (BCWMA), operated by SJRWMD.

The C-52 Canal receives additional inflows from, South Florida Water Management District (SFWMD) over S-253 and from the Fort Drum area through a gated culvert at S-252D. These flows enter the BCWMA which is a regulated Water Management Area. The Regulation schedule for the BCWMA has been established by the Army Corp of Engineers (USACE) and is incorporated in the District's Water Control Plan. Nothing in this document shall supersede the District's Water Control Plan approved by the USACE.

A verbal relationship has been established between the St. Johns River Water Management District (District) and the SJID water control staff such that discharges from the SJID, including pre-emptive discharges made by the SJID in advance of large storm and/or tropical events, are communicated to the District resulting in the operation of the Upper St. Johns River Basin Project (Upper Basin Project) to "pass-through" the SJID discharges.

III. Transfer of Operational Data:

To assist both Agencies in making operational decisions, both SJRWMD and SJID have the ability to view water level information on the adjacent systems. The District's daily water level reports are available on-line at: <https://www.sjrwmd.com/data/hydrologic/> or from the SJRWMD website by clicking Menu, then Data and Tools, then Hydrologic Conditions and then Controlled Water Level Reports.

IV. Supplemental Instructions for S-96D/S-3 Operations

In the event that SJID would like to make a preemptive discharge, they shall notify SJRWMD staff 24 hours in advance. The current contact list has been attached under Attachment “A”. SJRWMD will make operational adjustment based on the regulation schedule. A copy of the current regulation schedule has been attached under Attachment “B”.

One of two situations can occur, either the BCWMA is above regulation (Zone A) or below regulation (Zone B). Based on BCWMA water levels SJRWMD will make adjustments as follows:

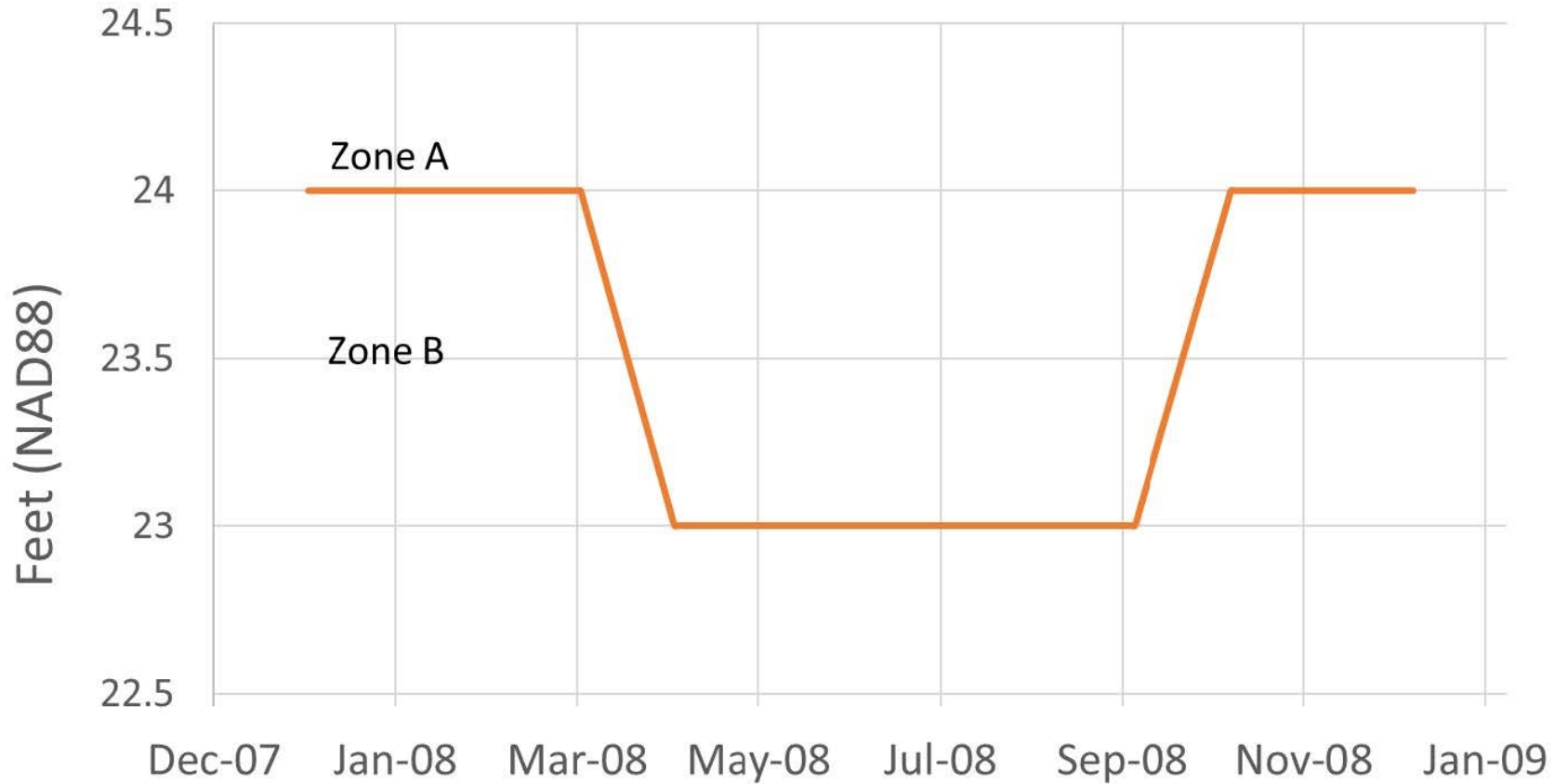
BCWMA Zone B (below regulation): The S-96D/S-3 structure shall be operated in accordance with the District’s Environmental Water Control Plan. During inflows from upstream, either by SJID or from South Florida Water Management District (SFWMD), S-96D/S3 shall be operated such that an equal volume of water is removed from BCWMA (passed through) as is entering from the upstream inflows or water may be held in the BCWMA up to, but not exceeding, the regulation elevation.

BCWMA Zone A (above regulation): The S-96D/S-3 structure shall be operated in accordance with the USACE Flood Control protocols for the management of the BCWMA. While in Zone A, if additional inflows from the SJID and/or SFWMD occur, the S-96D/S3 discharges shall be increased by amounts equal to or greater than those inflows depending upon the declining rate of the BCWMA levels desired.

Other relevant trigger elevations associated with Zone A operation include;

- Open S-258 when St. Johns Water Management Area (SJWMA) stage is at or above 24.5' NGVD 29 (23.03' NAVD 88).
- Open S-96 when SJWMA stage is at or above 25.0' NGVD 29 (23.53' NAVD 88).
- For SJWMA stage above 25.0' NGVD 29 (23.53' NAVD 88) but below 25.5' NGVD 29 (24.03' NAVD 88), discharge through S-96 must not cause discharge through S-157 to exceed 1500 cfs.
- For SJWMA stage at or above 25.5' NGVD 29 (24.03' NAVD 88), perform up to maximum design discharge of 6,000 cfs through S-96. Discharge through S-157 will accommodate discharges from S-96.

Regulation Schedule for Blue Cypress Water Management Area



*Current Regulation Schedule as of 3/1/2018

**Subject to change base on Army Corp of Engineers Permitting