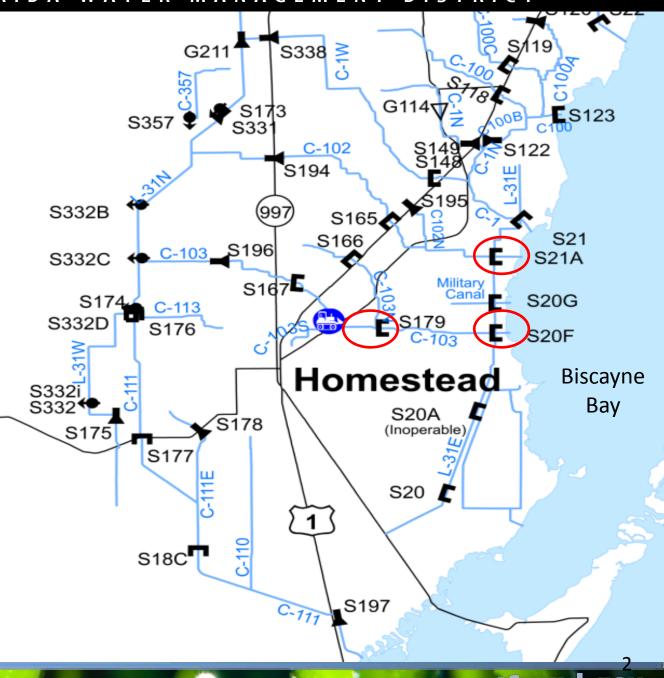


South Miami-Dade Water Issues Coordination Roundtable Discussion – March 1, 2011

Maura Merkal, Project Manager Project Coordination Division, Everglades Restoration and Capital Projects Structure Location Map



S-21A Operations

S-21A (Canal 102) water elevation ranges (feet NGVD):



High: 2.2' - 1.8'

Intermediate: 1.8' - 1.4'

Low: 1.4' - 1.0'

S-20F Operations

S-20F (Canal 103) water elevation ranges (feet NGVD):



High: 2.2' - 1.8'

Intermediate: 1.7' - 1.3'

Low: 1.4' - 1.0'

S-179 Operations

S-179 (Canal 103) water elevation ranges (feet NGVD):

High: 3.9' - 3.1'

Low: 3.1' - 2.7'

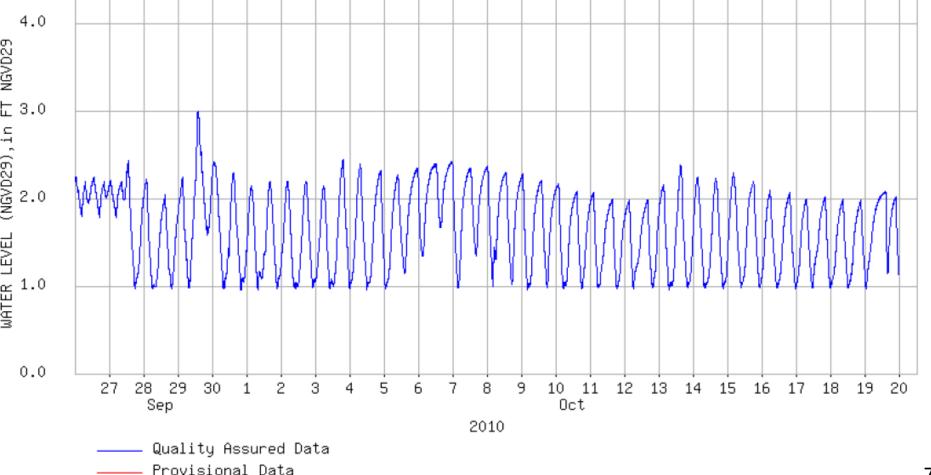


Operational Constraints

- Operational Range Protocol (Headwater)
 - Ex. Low Range: Gate Opens 1.4', Closes 1.0'
- Tidal Influences (Tailwater)
 - When tides are high, the gates operate to prevent saltwater intrusion sometimes allowing the canal levels to rise higher than the operational gate open criteria
 - During low tides, the gates can open/close based on operational protocol

S-20F Headwater Elevations September 29 to October 19, 2010

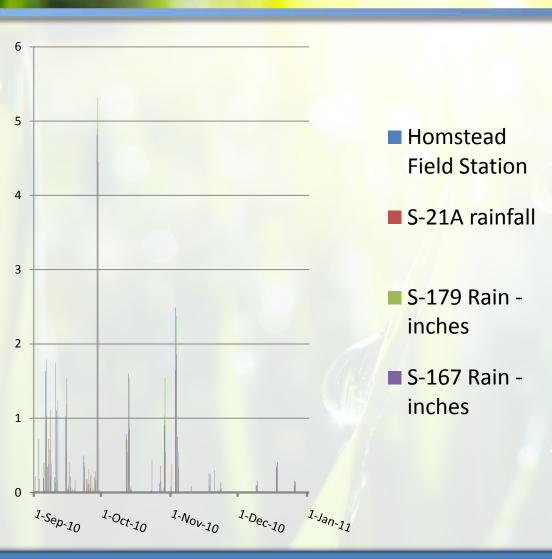
S-20F SPILLWAY ON CANAL C-103 NEAR TIDEWATER (HEADWATER) Station: S20F_H Freq: BK DataType: STG Stat: INST Agency: WMD Recorder: TELE opNum: Dbkey: 06572

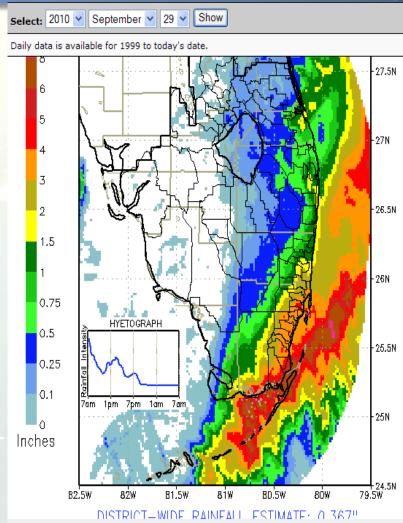


Field Conditions Assessment

- Rainfall
 - Daily and Forecast
- Field Inspections
 - Weekly
 - Four locations
- Communications
 - Homestead Field Station
 - Operations Manager Control Room

Rainfall





Weekly Field Inspections



2010-2011 Operations Structures S-20F, S-21A and S-179

			1.0
Date	S-21A	S-20F	S-179
9/27/2010	Low	Low	Low
3/2//2010	LOW	LOVV	LOW
12/26/2011	Intermediate	Intermediate	u
	memediate	meanace	
1/17/2011	Low	Low	u
, ,			

Intermediate

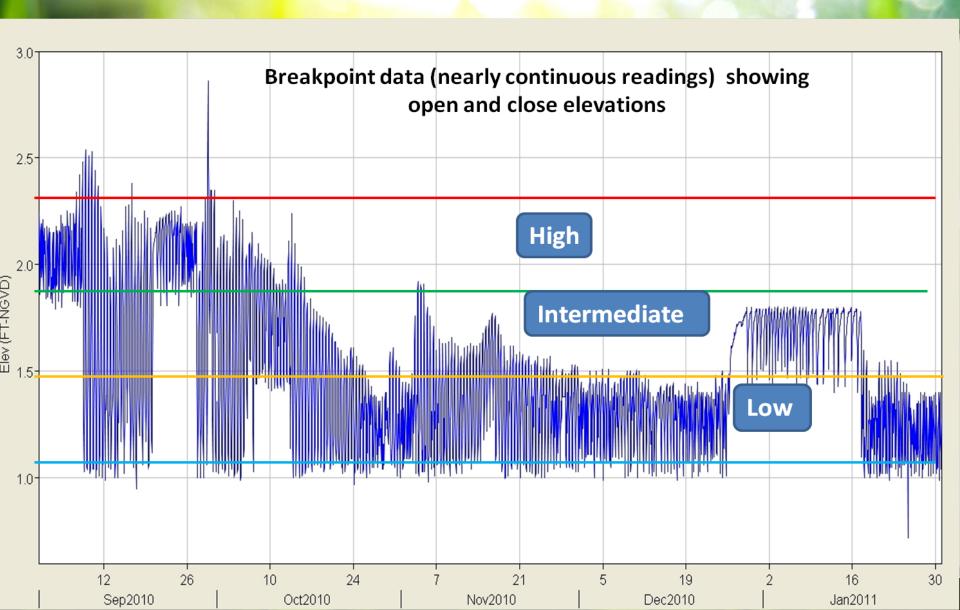
Intermediate

"

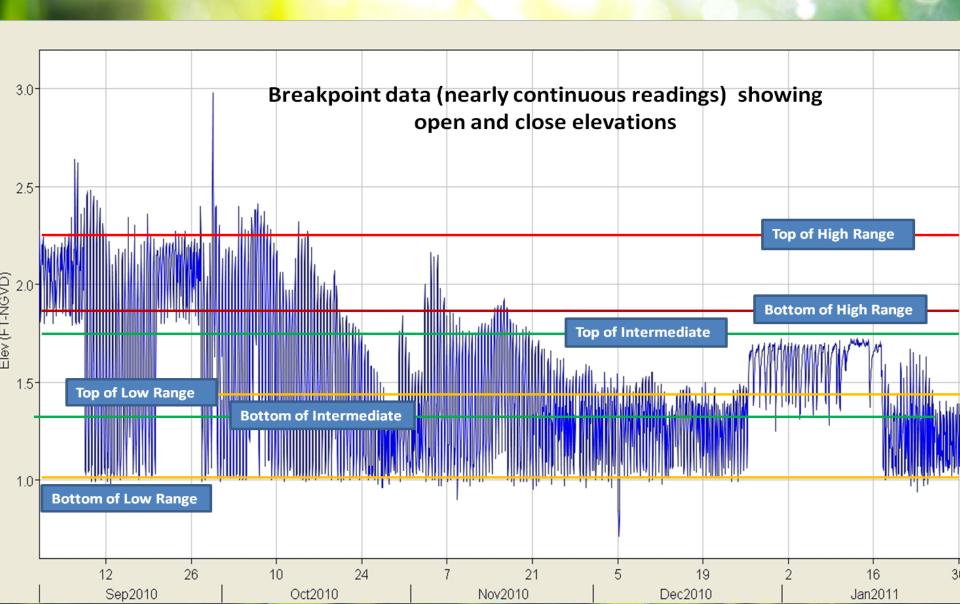
11

2/14/2011

S-21A Headwater Elevations



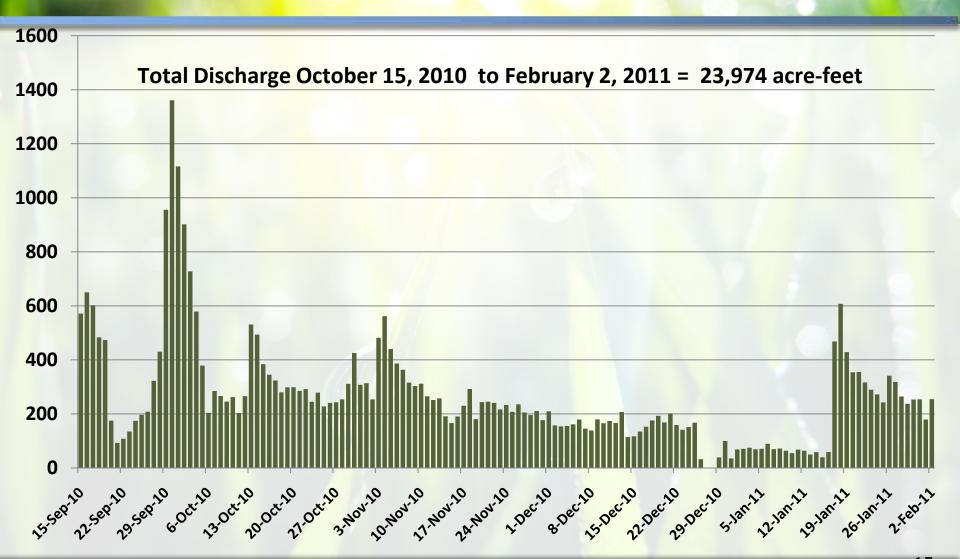
S-20F Headwater Elevations



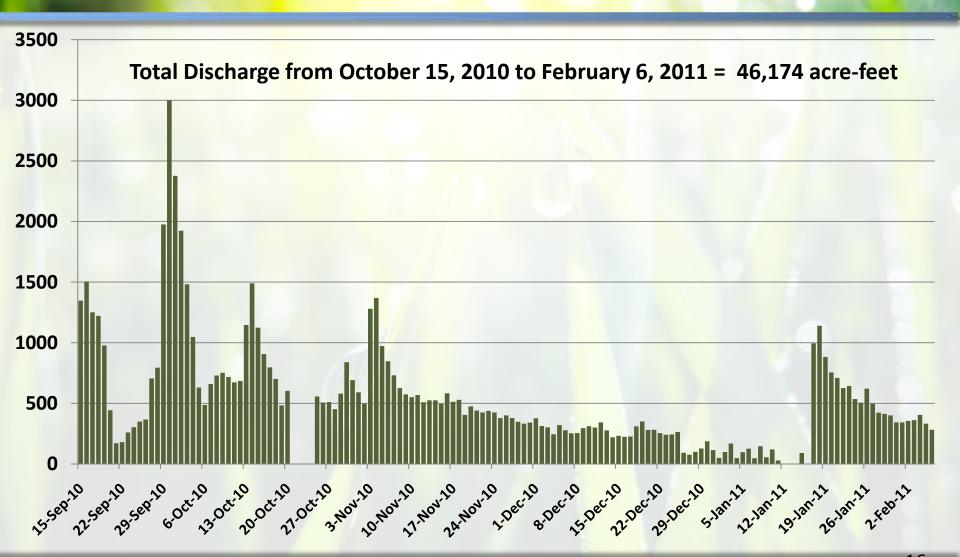
S-179 Headwater



S-21A Daily Discharge Volume (Acre-feet)



S-20F Daily Flow Volume (Acre-feet)



Seasonal Operations Teleconferences sfwmd.gov



SEASONAL DRAWDOWN OPERATIONS

Reports and Documents

- ▶ Report of the South Miami-Dade Seasonal Operations October 2009 April 2010 [PDF]
- ► AECOM Report November 2010 [PDF]
- Statistical Analysis Statement of Work [PDF]

Presentations

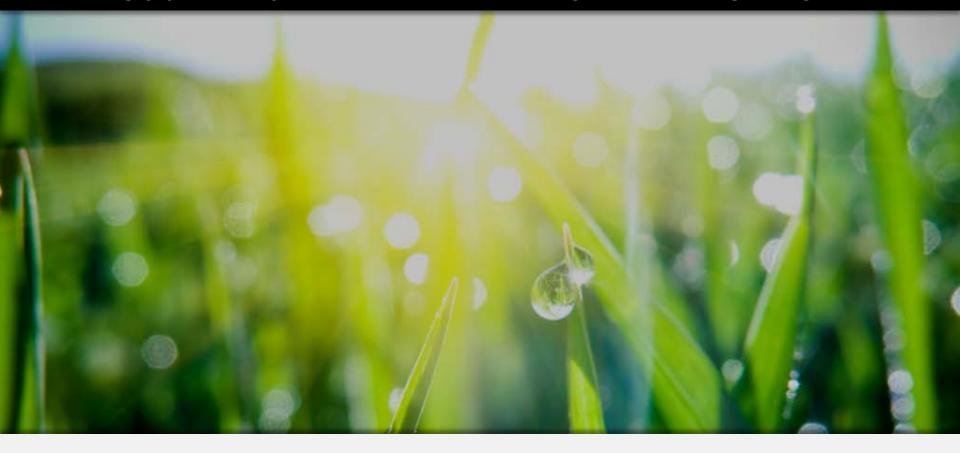
- November 22, 2010 Water Conditions and Operations Summary [PDF]
- October 13, 2010 SFWMD Governing Board Presentation: Seasonal Drawdown Operations
- September 8, 2010 SFWMD Governing Board Presentation: Seasonal Drawdown Operations Overview [PDF]

Water Conditions and Operations Teleconference Notes

- ▶ Seasonal Operations Conditions Report Teleconference Notes, January 20, 2011 [PDF]
- ▶ Seasonal Operations Conditions Report Teleconference Notes, January 6, 2011 [PDF]
- ▶ Seasonal Operations Conditions Report Teleconference Notes, December 16, 2010 [PDF]
- ► Seasonal Operations Conditions Report Teleconference Notes, December 2, 2010 [PDF]
- ▶ Seasonal Operations Conditions Report Teleconference Notes, November 18, 2010 [PDF]
- Seasonal Operations Conditions Report Teleconference Notes, November 4, 2010 [PDF]
- Seasonal Operations Conditions Report Teleconference Notes, October 21, 2010 [PDF]
 Seasonal Operations Conditions Report Teleconference Notes, October 7, 2010 [PDF] (revised)

2010-2011 Operations Report

- Overview of South Miami-Dade Seasonal Operations October 2010 through April 2011
 - USACE Master Water Control Plan
 - Structure operations
 - Coastal salinity structures S-20F and S-21A
 - Coastal ridge structures S-179
 - Field conditions assessment procedures
- 2010/2011 Hydrologic and Operational Summary
 - Rainfall, canal/groundwater stage data, operations
- Changes and Enhancements
 - Monitoring- staff gauges
 - Structural /Operational
 - Biscayne Bay supplemental freshwater delivery feasibility investigation
 - North Canal re-connection
 - Florida Cities Canal water control structure
- Outreach
 - Bi-weekly water conditions/operations teleconference
 - REPORT DUE JULY 2011

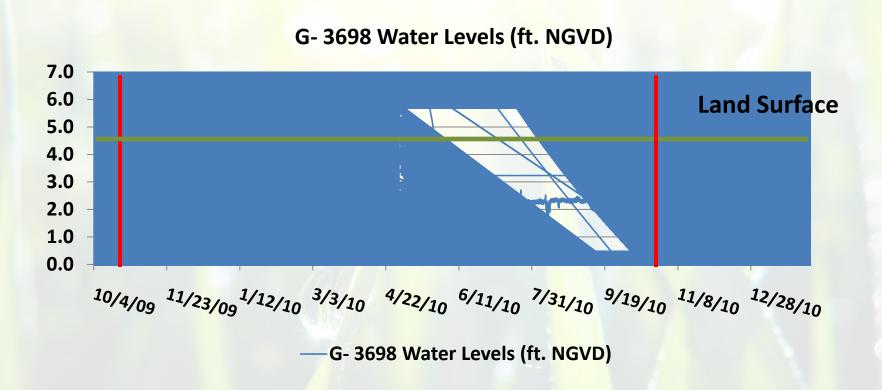


ENHANCED GROUNDWATER MONITORING TASK

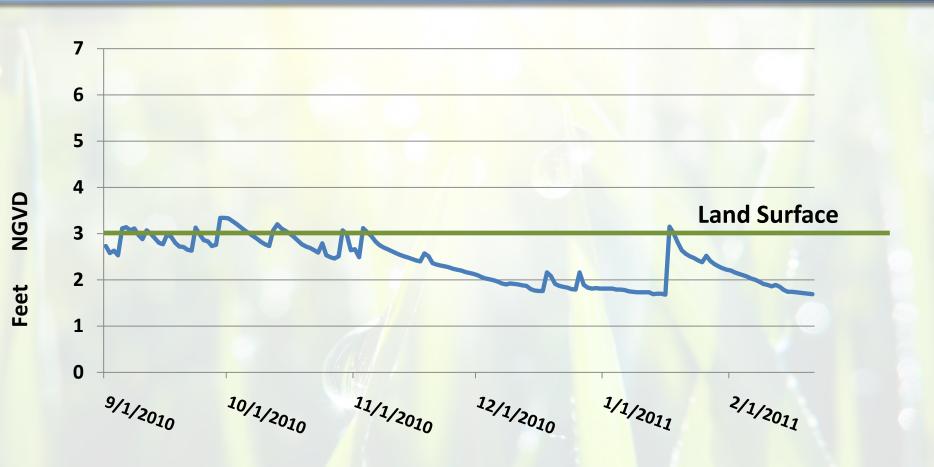
Unsaturated Thickness - Well Locations



USGS Well G-3698 Water Levels (ft. NGVD) C-103 Basin



USGS Well G-3356 Groundwater Levels (feet NGVD)



Staff Gauges Deployment

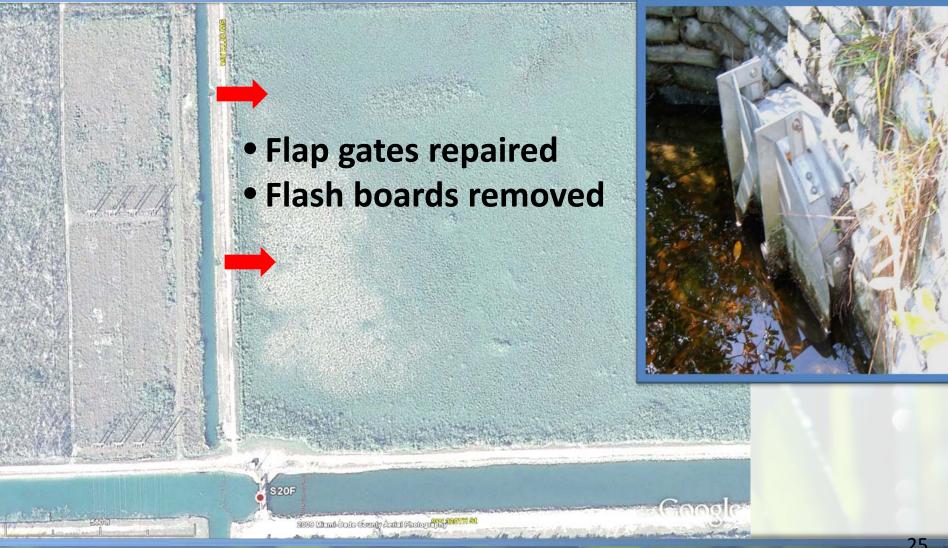


Florida City Canal Water Control Structure

Upcoming Activities	Timeframes	
Intergovernmental Agreement - County Approval	April 2011	
Intergovernmental Agreement - SFWMD GB Approval	April 2011	
Design/Permitting	Aug 2011 – Feb 2012	

Construction March 2012 – Feb 2013

L-31E Culvert Flap Gate Repair



North Canal Reconnection



Miami-Dade County Card Sound Road Plug

Upcoming Activities

Timeframes

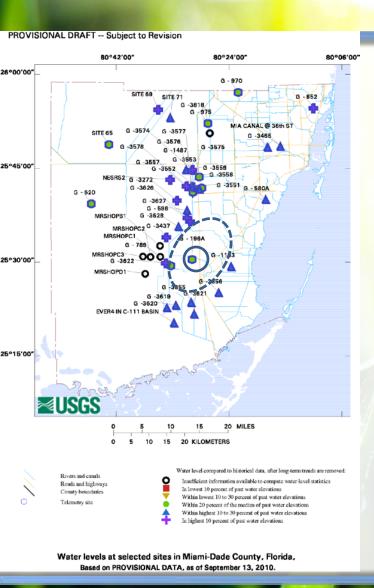
Bid

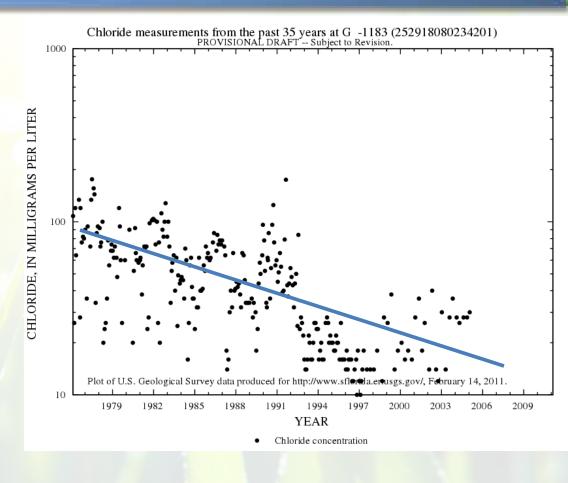
March 2011

Award Construction Contract

May 2011







USGS Well G-1183 - Chlorides, 30 Year Period of Record