MEMORANDUM

To: USACE Colonel Brandon L. Bowman, Major Cory Bell, Richard McMillen, SFWMD Governing Board, Executive Director Drew Bartlett, Jennifer Reynolds, DEP Secretary Alexis Lambert

From: C&SF Water Management Call Participants
Kevin Godsea & Avery Renshaw - J.N. "Ding" Darling National Wildlife Refuge (NWR) Complex
Holly Milbrandt & Dana Dettmar - City of Sanibel
Allie Pecenka, Rick Bartleson PhD & Matt DePaolis- Sanibel-Captiva Conservation Foundation
With contributions from Harry Phillips & Maya Robert PhD- City of Cape Coral

Subject: Caloosahatchee & Estuary Conditions Report

Reporting Period: **October 6- 12, 2026**

This report provides a scientific assessment of Caloosahatchee River and Estuary conditions and how these conditions affect the health, productivity, and function of the system.

Caloosahatchee Conditions Summary: Flow to the Caloosahatchee Estuary had a 7-day average of **2,132 cfs** at **S-79** with a 7-day average of **0 cfs** coming from the lake at **S-77. The 14-day moving average flow at S-79 was 1,630 cfs** and has been in the **optimum flow envelope** (750- 2,100 cfs; RECOVER 2020) for **8 days** after **25 days above** the optimum flow envelope (>2,100 cfs). **The 14-day moving average flow at S-77 was 0 cfs.**

Recommendation: As oyster spawning season concludes in the CRE, maintaining flows within the optimum envelope (750- 2,100 cfs) at S-79 remains critical to the health of oysters and other indicator species within the estuary. While flows at S-79 are currently within the optimum flow envelope, rainfall and basin runoff projections remain variable. In the event flow from basin runoff is insufficient to maintain between 750- 2,100 cfs at S-79, the release of supplemental lake flows to reach this optimum flow target will protect the salinity gradient required for species and habitat health in the CRE.

USACE Action: On October 4, the daily average Lake Okeechobee stage was 10.74 feet NAVD88 (12.04 feet NGVD29), which placed it within the Water Shortage Management Zone (WSMZ) of the Lake Okeechobee System Operating Manual (LOSOM). Lake stage increased by 0.22 feet over the preceding 7-day period. El Niño conditions are present, and will strengthen through the end of the year. The District will continue to monitor conditions in the estuaries, as well as the systemwide conditions. Normal Lake Operations continue pursuant to the considerations in LOSOM as informed by PA25. Given the estuary salinity conditions, it is recommended that flow targets for the Caloosahatchee Estuary should rely on basin flows only, and not be supplemented with Lake Okeechobee water; flow targets for the St. Lucie Estuary and Lake Worth Lagoon should remain at 0 cfs.

Lake Flows: In the past 7 days the total outflow from Lake Okeechobee was **-4,583 AF** with **10 AF** to the Caloosahatchee through **S-77**, **-4,593** to the St. Lucie canal through **S-308** and **0 AF** to the EAA through **S-351**, **S-352**, and **S-354**. The total net inflow to the Lake was **47,345 AF** from Fisheating Creek, S-71, S-72, S-84s, S-65EX, and S-65EX1. Water conservation areas received flows of **8,820 AF**, **14,297 AF**, and **4,941 AF** at **WCA1, WCA2, and WCA3**, respectively. Everglades National Park received **3,022 AF.**

***Data missing from S-310 and L-8 from 10/6- 10/12 and from ENP on 10/9.**

Lake Level: 12.32 (WMSZ) **Last Week**: **12.04 ft** **Last Year: 13.88 ft**

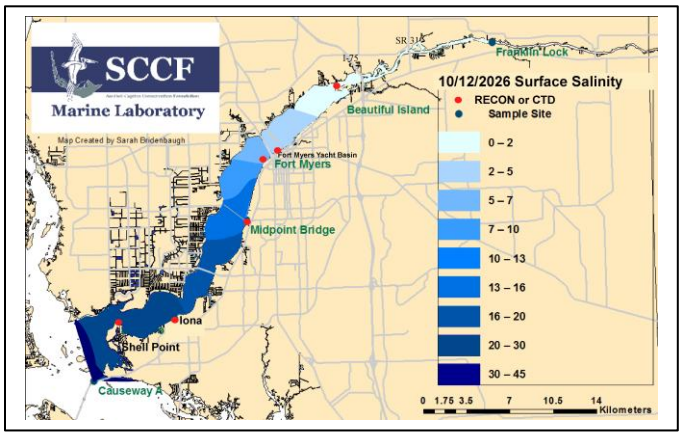
7-Day Lake Recession Rate: +0.28 ft/ wk.

Lake Okeechobee Inflow: 5,785 cfs **Lake Okeechobee Outflow: 251 cfs**

Weekly Rainfall Total: **WP Franklin: 2.80"** **Ortona: 1.26"** **Julian Keen Jr.: 1.84"**

Red Tide: The red tide organism, *Karenia brevis*, was observed at background to very low concentrations in 11 samples collected from and offshore of Florida's Gulf Coast. In Southwest Florida over the past week, *K. brevis* was observed at background concentrations in Pinellas County, background concentrations in Manatee County, background to very low concentrations in and offshore of Sarasota County, background and very low concentrations in Charlotte County, and background concentrations offshore of Collier County.

Cyanobacteria Status: No significant cyanobacteria blooms are currently being observed in the Caloosahatchee River and Estuary.



Light Penetration

Site	25% Iz	Target Values	Turbidity	Target Values
	meters		NTU	
Fort Myers	--	> 1	--	< 18
Shell Point	15	>2.2	4.0	< 18
Causeway	3.7	> 2.2	5.3	< 5

***25% Iz** is the depth (z) where irradiance (I) is 25% of surface irradiance. Target values indicate the depth of light penetration needed for healthy seagrass.*

Upper Estuary Conditions: The 30-day moving average surface salinity at the Fort Myers Yacht Basin was **2.2 psu, within the suitable range for tape grass**. The weekly average was 3.1 psu.

Lower Estuary Conditions: The weekly average salinity at the Shell Point RECON was **26 psu, in the optimal range** for oysters and seagrass. *Margalefidinium* counts in Tarpon Bay ranged between 10,000 and 30,000 cells/L.

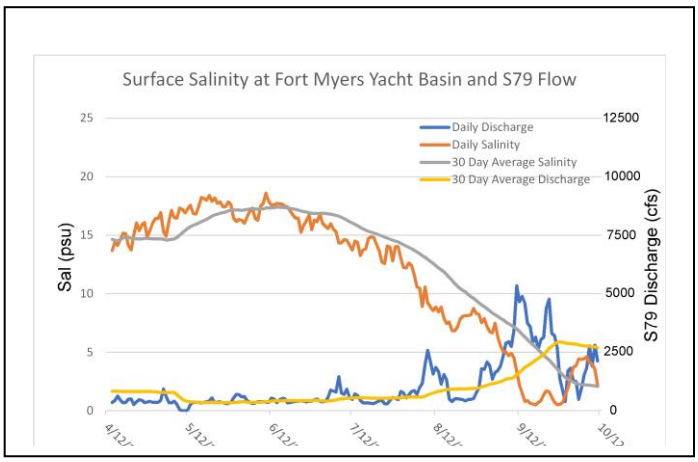
Water Quality Conditions:

Monitor Site	Salinity (psu)[a] [previous week]	Diss O_2 (mg/L)[b]	FDOM (qsde)[c]	Chlorophyll (µg/L)[d]	Temperature (°F)
Beautiful Island	0.3- 1.5 [0.2- 1.4]	----	---	---	84.4 – 88.8
Fort Myers Yacht Basin	0.4 - 6.7 [0.4 - 6.7]	----	90	---	82.9 – 89.0
Shell Point	16 – 33 [15 – 33]	1.9 - 5.5	45	1.8	83.3 – 86.9
McIntyre Creek	28.4 – 34.0 [28.5 – 30.8]	1.3 – 7.8	11.2 – 28.8	1.2 – 2.6	82.5 – 88.1
Tarpon Bay	28.8 – 35.1 [28.5 – 35.0]	3.4 – 7.6	15.1 – 47.8	1.5 – 4.5	83.4 – 87.9
Wulfert Flats	---- [-----]	----	----	----	----

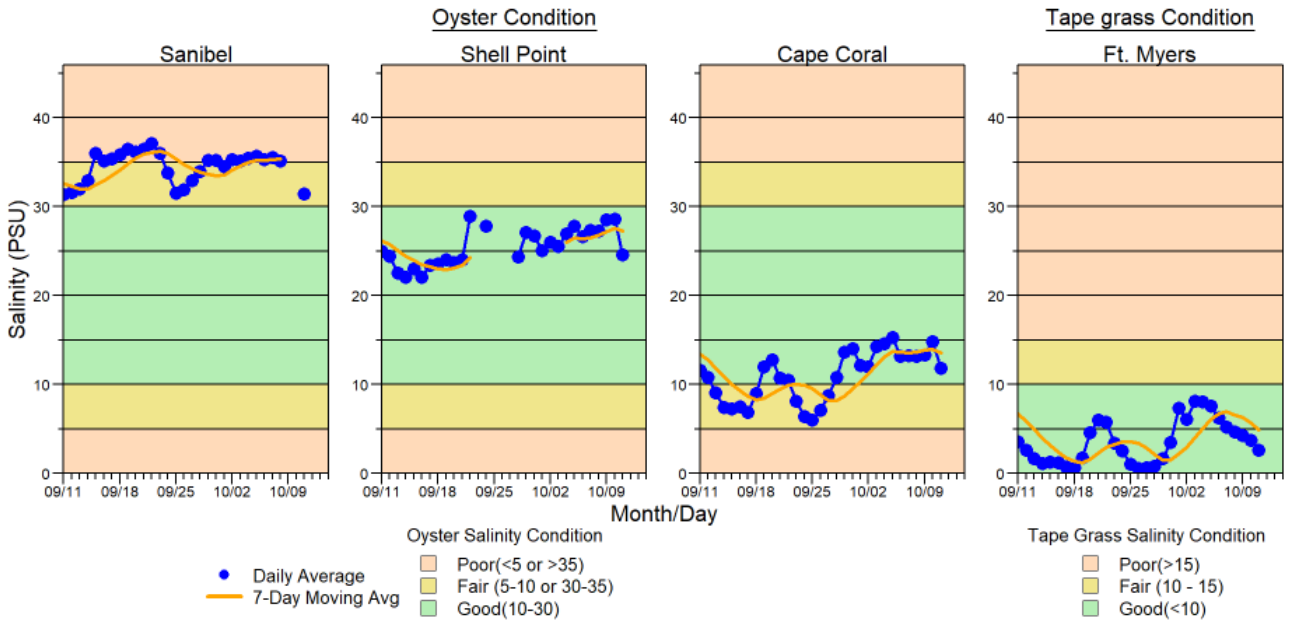
Red values are outside of the preferred range.
[a] Salinity target values: BI < 5, FM < 10, SP = 10 – 30
[b] Dissolved O_2 target values: all sites > 4
[c] FDOM target values: BI < 70, FM < 70, SP < 11
[d] Chlorophyll target values: BI < 11, FM < 11, SP < 11
[f] Temperature target values: < 90
[s] Single sonde lower and surface layer or surface grab lab measurement
ND: no data

Wildlife Impacts: Wildlife impact data was not available for this reporting period.

Shellfish Advisory: Shellfish harvest area #6212 (Pine Island Sound Section 1); Aquaculture Lease and Public Reef are **OPEN** by the Florida Department of Agriculture and Consumer Services (FDACS). SHA #6222 (North Matlacha Pass) and SHA #6232 (South Matlacha Pass) are **OPEN**.



USACE Daily Reports			
Date	S79 Flow (cfs)	S78 Flow (cfs)	S77 Flow (cfs)
10/6/26	1527	357	0
10/7/26	1842	850	0
10/8/26	2776	1359	0
10/9/26	1908	1136	0
10/10/26	2802	1116	0
10/11/26	2124	795	0
10/12/26	1946	682	0
7-day avg	**2132**	**899**	**0**



Daily average bottom salinity data for the last 14-days from sampling locations within the tidal Caloosahatchee River Estuary relative to oyster health (Sanibel, Shell Point and Cape Coral) and tape grass (*Vallisneria americana*) health (Ft. Myers only) conditions.

*Ft. Myers sensor is in the lower strata

Water clarity at Lighthouse Beach Park on 10/12/26 at 1:40 PM on a rising tide (2.1 ft).