

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 2nd Quarter 2019

Environmental News

Native Plant profile

Construction Continues on the C-43 Reservoir

Construction for the Caloosahatchee River (C-43) West Basin Storage Reservoir Project for the Comprehensive Everglades Restoration Plan, (CERP) continues. Originally planned in 2008, the reservoir is located on 10,700 acres of former farmland west of Labelle in Hendry County. Once completed, it will operate by storing local runoff as well as Lake Okeechobee releases during the wet season, reducing lake discharges reaching the estuary. Additionally, it will help distribute flow to the Caloosahatchee River during the dry season, which provides needed flows for

The completion of the reservoir is anticipated to be completed by 2022. The cost of the project is estimated at over \$500 million. Funding for the project is provided by the South Florida Water Management District, Save Our Everglades Trust Fund, and a grant from the Land and Water Conservation Fund. For more information, please visit;

https://www.sfwmd.gov/ourwork/northern-everglades

improved salinity balance.

Questions? Comments? Let us know!

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Bursera simaruba

Gumbo Limbo

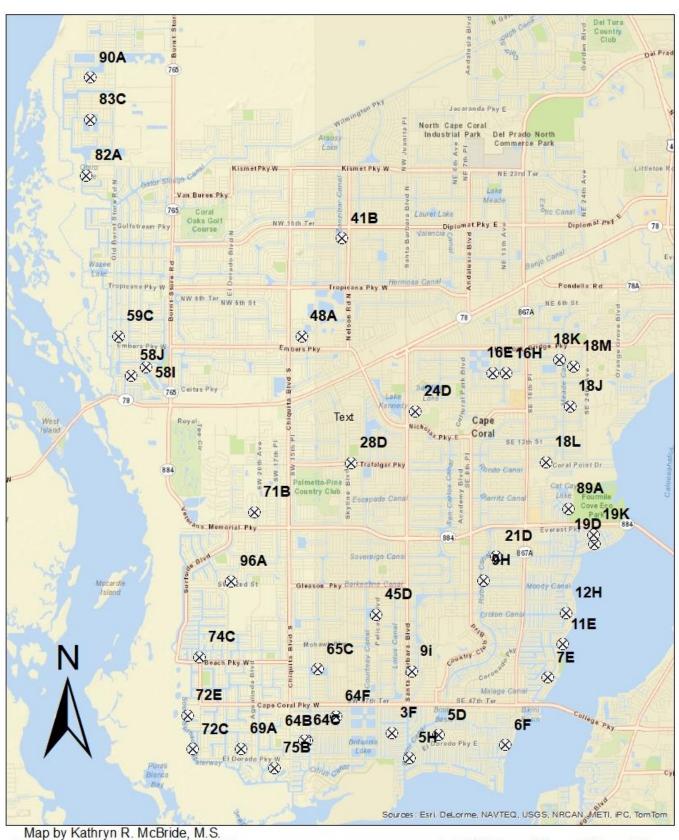
The Gumbo Limbo tree is an easily recognizable tree in the South Florida landscape. It's red pealing bark often lends to its quirky name, the tourist tree. Namely, sunburned tourist.

Found throughout tropical regions in the Americas, this native tree is fast growing, can tolerate dry, sandy soils, and is adaptive to hurricanes and tropical storms.

The Gumbo Limbo is often found on barrier islands (such as our tourists) or maritime forest. Being at the forefront when high winds occur, limbs in the Gumbo Limbo canopy will snap to "self-prune". A beneficial advantage than to trees that topple over during tropical systems. It's better to lose a few branches than to uproot. Those branches can be planted, broken side down, to propagate more Gumbo Limbos.



Current Cape Coral Canalwatch Stations



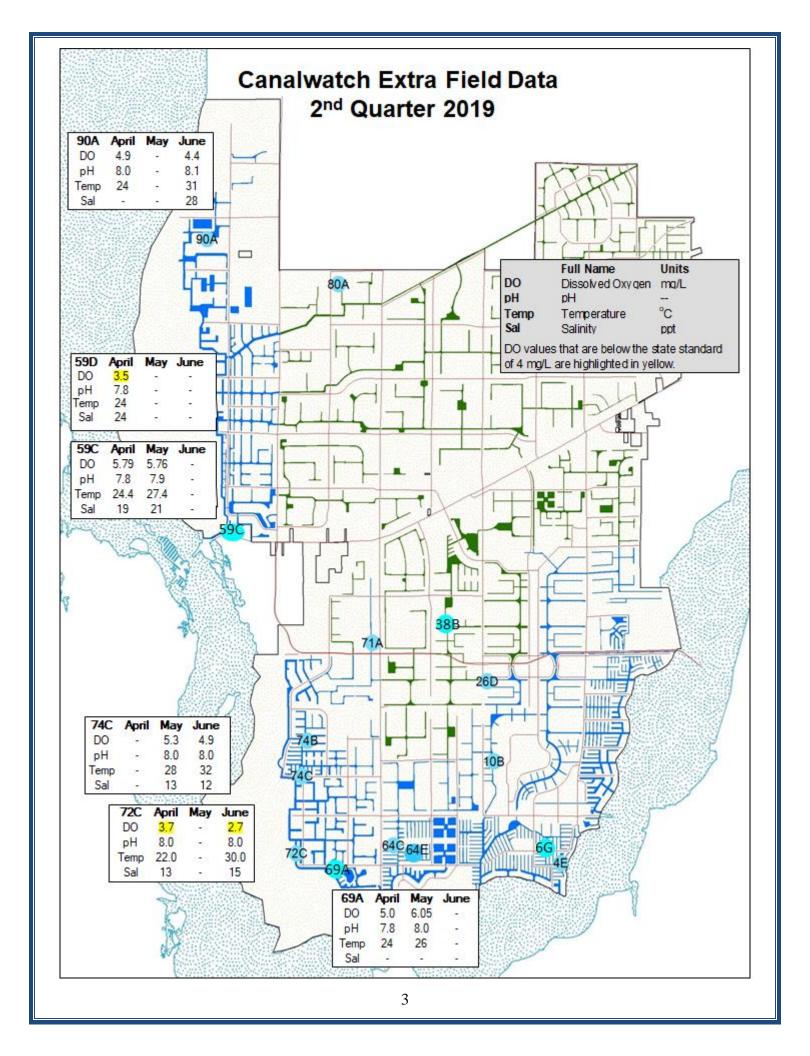
0 0.4250.85

2.55

3.4

1.7

Enivronmental Resources Division of Public Works, City of Cape Coral



	bd = below detection benchmark num							bers: Marked data are in the highest 20% of values found by Hand et. al, 1988.											
		April 2019						May 2019							June				
	NO2	NO3	NH3	TKN	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	Avg
	<1.0	<1.0	none	e set	<2.0	<0.46	<1.0	<1.0	none	set	<2.0	<0.46	<1.0	<1.0	none	e set	<2.0	<0.46	TSI
3F	0.03	0.03	0.05	1.1	1.1	0.04	0.03	0.03	0.05	0.4	0.4	0.06							54.05
5D	0.03	0.03	0.05	0.7	0.7	0.04	0.03	0.03	0.05	0.7	0.7	0.10	0.03	0.03	0.1	0.6	0.6	0.12	48.78
5H	0.03	0.03	0.05	0.5	0.5	0.04													46.24
6F	0.03	0.03	0.05	0.5	0.5	0.05	0.03	0.03	0.05	0.6	0.6	0.14	0.03	0.03	0.05	0.7	0.7	0.19	47.98
7 E	0.03	0.03	0.05	0.6	0.6	0.06	0.03	0.03	0.05	0.6	0.6	0.17							44.67
91													0.03	0.03	0.05	0.7	0.7	0.21	48.94
11E	0.03	0.03	0.05	0.6	0.6	0.07							0.03	0.03	0.05	0.7	0.7	0.23	49.46
12H	0.03	0.03	0.05	0.6	0.6	0.06	0.03	0.03	0.05	0.5	0.5	0.17							47.05
16E	0.03	0.03	0.05	0.4	0.4	0.01	0.03	0.03	0.05	0.5	0.5	0.01	0.03	0.03	0.05	0.6	0.6	0.01	24.43
16H													0.03	0.03	0.05	0.6	0.6	0.02	41.60
18J	0.03	0.03	0.05	0.5	0.5	0.03	0.03	0.03	0.05	0.6	0.6	0.03	0.03	0.03	0.05	0.7	0.7	0.03	53.47
18K	0.03	0.03	0.05	0.8	0.8	0.02													37.32
18L	0.03	0.03	0.05	0.7	0.7	0.82	0.03	0.03	0.05	0.7	0.7	0.26	0.03	0.03	0.05	0.8	0.8	0.33	52.38
18M	0.03	0.03	0.05	0.8	0.8	0.03							0.03	0.03	0.05	0.7	0.7	0.11	48.58
19D	0.03	0.03	0.05	0.6	0.6	0.07	0.03	0.03	0.05	0.7	0.7	0.20	0.03	0.03	0.05	0.7	0.7	0.28	50.96
19K	0.03	0.03	0.05	0.6	0.6	0.07	0.03	0.03	0.05	0.7	0.7	0.22	0.03	0.03	0.05	0.7	0.7	0.28	48.74
21D	0.03	0.03	0.05	0.6	0.6	0.04	0.03	0.03	0.05	0.6	0.6	0.16	0.03	0.03	0.05	3.2	3.2	0.26	58.66
24D							0.03	0.03	0.05	0.6	0.6	0.08	0.03	0.03	0.05	0.6	0.6	0.03	45.63
28D	0.03	0.03	0.05	0.4	0.4	0.01	0.03	0.03	0.05	0.7	0.7	0.04	0.03	0.05	0.05	0.7	0.7	0.04	48.98
41B							0.03	0.03	0.05	0.5	0.5	0.01	0.03	0.03	0.05	0.6	0.6	0.01	24.43
45D	0.03	0.03	0.05	0.4	0.4	0.01	0.03	0.03	0.05	0.5	0.5	0.02							36.95
48A	0.03	0.03	0.05	0.5	0.5	0.02													46.62
581	0.03	0.03	0.05	0.5	0.5	0.04	0.03	0.03	0.05	0.5	0.5	0.03	0.03	0.03	0.05	0.8	0.8	0.02	43.76
58J	0.03	0.03	0.05	0.6	0.6	0.04							0.03	0.03	0.05	1.3	1.3	0.03	44.38
59C	0.03	0.03	0.05	0.5	0.5	0.01	0.03	0.03	0.05	0.4	0.4	0.16							34.18

59D	0.03	0.03	0.05	1.0	1.0	0.03													46.46
64B							0.03	0.03	0.05	0.3	0.3	0.01							28.29
65C	0.03	0.03	0.05	0.5	0.5	0.04	0.03	0.03	0.05	0.6	0.6	0.08	0.03	0.03	0.05	0.9	0.9	0.16	32.31
69A	0.03	0.03	0.05	0.7	0.7	0.08	0.03	0.03	0.05	0.9	0.9	0.10							52.11
71B	0.03	0.03	0.05	0.6	0.6	0.02	0.03	0.03	0.05	0.6	0.6	0.12	0.03	0.03	0.05	0.8	0.8	0.05	51.65
72C	0.03	0.03	0.05	0.5	0.5	0.05							0.03	0.03	0.05	0.7	0.7	0.06	48.62
72E	0.03	0.03	0.05	0.5	0.5	0.04													42.31
74C							0.03	0.03	0.05	0.4	0.4	0.03	0.03	0.03	0.05	0.7	0.7	0.11	45.15
75B													0.03	0.03	0.05	0.6	0.6	0.05	39.09
82A	0.03	0.03	0.05	0.5	0.5	0.01	0.03	0.03	0.05	0.8	0.8	0.11	0.03	0.03	0.05	0.8	0.8	0.02	49.32
83C	0.03	0.03	0.05	0.4	0.4	0.01	0.03	0.03	0.05	0.6	0.6	0.02	0.03	0.03	0.05	0.9	0.9	0.02	55.64
89A	0.03	0.03	0.05	0.8	0.8	0.12	0.03	0.03	0.05	0.9	0.9	0.05	0.03	0.03	0.05	0.8	0.8	0.31	57.78
90A	0.03	0.03	0.05	0.7	0.7	0.02							0.03	0.03	0.1	1.2	1.2	0.01	39.53
96A	0.03	0.03	0.05	0.8	0.8	0.03	0.03	0.03	0.05	0.2	0.2	0.27	0.03	0.03	0.05	0.7	0.7	0.08	40.43
Median		bd	0.05	0.60	0.60	0.04		bd	0.05	0.60	0.60	0.09		bd	0.05	0.70	0.70	0.06	46.62
Max		0.03	0.05	1.10	1.10	0.82		0.03	0.05	0.90	0.90	0.27		0.05	0.10	3.20	3.20	0.33	58.66
											1								
NO2 = 1	Nitrite (ino	rganic)		= Total Kj n (organic		High levels of nutrients in our canals can indicate the presence of fertilizer						TSI = Trophic State Index, a quick indicator of canal health.TSI = Trophic State Index, a quick indicator of canal health. 39 sites this quarter scored as GOOD (<60). zero sites scored FAIR							
NO3 = N	Nitrate (inc	organic)		: Total Niti ganic + org		runoff or effluent from wastewater or septic systems. Excessive nutrients													
NH3 = Ammonia (inorganic) TPO4 = Total Phosphate					can lead to nuisance plant growth and algal blooms.						(60-70), and zero scored POOR (>70). Second quarter 2019 water quality maintained an improving trend well into the dry season. The Caloosahatchee River continued its								
All nutrient	concent	ations sho	own in mg.	/L													nee kiver green alg		
														-		-	s with co		-
																	tidaly in		
												The above TSI values for all sites reflects that many sites recorded ideal Secchi disk values for the first half of 2019.							

Upcoming Events

Free Gardening Series Offered by the Lee County Master Gardeners

Landscape Planning Tips February 14th
Color in the Native Garden March 20th
Composting and Mulching April 24th

All programs held on Fridays (on selected dates) from 9:00 am to 10:30 am at Rotary Park Environmental Center. 5505 Rose Garden Rd. Please register in advance by calling 239-549-4606 or Emailing at rotaryparkinfo@capecoral.net.



Florida Friendly Landscaping

Upcoming Introductory Classes at Rotary Park Environmental Center

Wednesday February 26th 1:00 pm to 3:00 pm Saturday March 21st 10:00 am to 12:00 pm Saturday April 11th 1:00 pm to 3:00 pm

Please register in advance by calling 239-549-4606 or Emailing at rotaryparkinfo@capecoral.net.

City of Cape Coral Environmental Resources Division C/O Canalwatch Volunteer Program P.O. Box 150027 Cape Coral, FL 33915