

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 1st Quarter 2020

Environmental News

Native Plant Profile

Earth Day Celebrates 50 Years

In 1970 millions of Americans rallied for the protection of our planet. Championed by United States Senator Gaylord Nelson, the first Earth day was held on April 22, 1970. Many Americans took to the streets in cities around the nation, assembled on college campuses and stood united to protest rampant environmental depredation and demand new legislature to protect the environment.

The Environmental Protection Agency (EPA) was formed under the Nixon administration and many environmental laws were amended to hold more stringent rules, including Clean Air Act and the Clean Water Act. The Endangered Species Act was established shortly thereafter in 1973.

On April 22, 2020 Earth Day celebrated 50 years. While this year's events were largely small, or digital due to the CORVID-19 epidemic, citizens of Earth still did their part to protect their shared home. It can be something as simple as collecting trash in your neighborhood. We can all do our part. More information can be found at earthday.org

Questions? Comments? Let us know!

(239)574-0785

Harry: hphillips@capecoral.net Katie: kmcbride@capecoral.net

Chara spp. Muskgrass

Muskgrass is an aquatic weed that is classified as a macro-alga. However, its size and branching structure give it the appearance of a plant that would produce flowers and seeds.

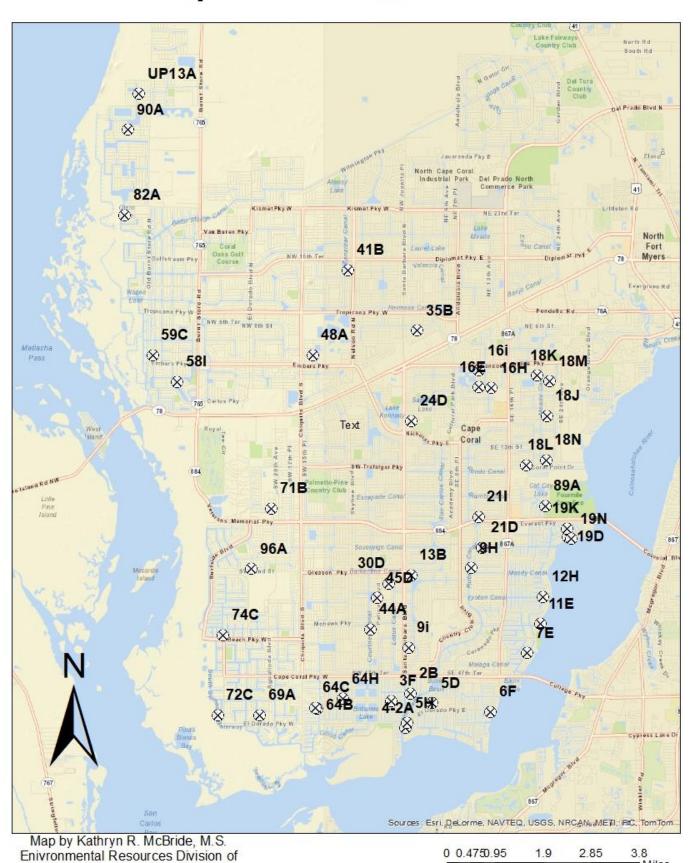
Native to Florida, muskgrass is comprised of several species. This aquatic weed is found attached to sediments of ponds, lakes, rivers and canals, and if in abundance, can create underwater meadows.

Muskgrass is named because of its strong garlic odor when handled.

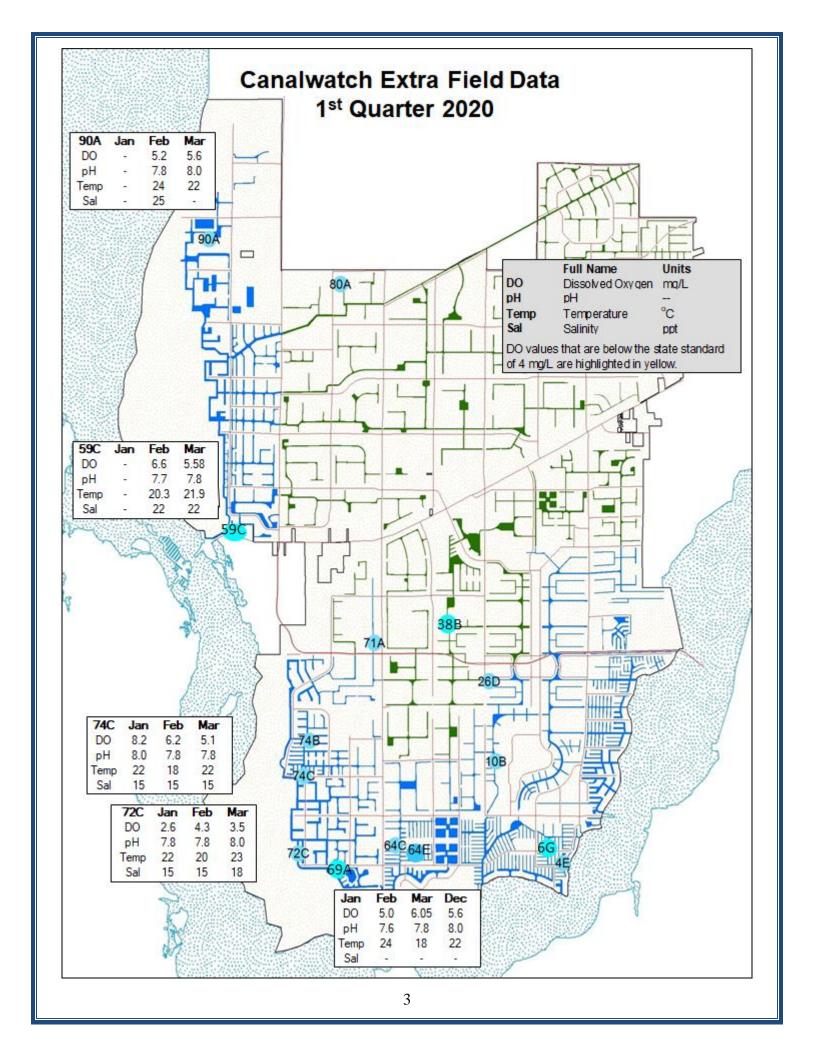
While an abundance of muskgrass may seem unappealing in a freshwater canal, it does provide habitat for numerous macro invertebrates. These invertebrates are a food source for fish and other wildlife. It also provides food for many species of ducks that can feed on it directly.



Current Cape Coral Canalwatch Stations



Public Works, City of Cape Coral



	bd = be	low dete	ection		benchn	nark num	bers: M	arked d	ata are i	n the hig	hest 20	% of valu	ies foun	d by Ha	nd et. al,	, 1988.			
	Janurary 2020						February 2020								March				
	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
2B	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.5	0.5	0.05	42.15
3F	0.05	0.05	0.2	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.4	0.4	0.05	31.36
4-2A							0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.3	0.3	0.05	35.61
5D	0.05	0.05	0.1	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.4	0.4	0.05	33.42
5H							0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.3	0.3	0.05	38.26
6F	0.05	0.05	0.1	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.3	0.3	0.05	40.74
7E	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.4	0.4	0.10	24.29
9H	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.4	0.4	0.05	34.36
91	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.9	0.9	0.05	34.54
11E	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.1	0.1	0.10	24.95
12H							0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.5	0.5	0.05	43.69
13B							0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.5	0.5	0.05	47.94
16E	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.1	0.6	0.6	0.05	31.94
16H													0.05	0.05	0.1	0.7	0.7	0.05	51.65
161	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.3	0.3	0.05	27.21
18J	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.6	0.6	0.05	36.45
18K							0.05	0.05	0.1	0.2	0.2	0.05	0.05	0.05	0.1	0.5	0.5	0.05	48.30
18L	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.6	0.6	0.10	35.51
18M	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.1	0.2	0.2	0.05							31.60
18N							0.05	0.05	0.05	0.3	0.3	0.05	0.05	0.05	0.1	1.9	1.9	0.10	49.40
19D	0.05	0.05	0.05	0.05	0.1	0.2	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.5	0.5	0.10	35.53
19K	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.4	0.4	0.10	36.08
19N							0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.6	0.6	0.10	42.48
21D	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.1	0.1	0.10	29.51
211	0.05	0.05	0.1	0.05	0.1	0.3	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.7	0.7	0.15	39.07
24D							0.05	0.05	0.05	0.4	0.4	0.05	0.05	0.05	0.1	0.8	0.8	0.05	45.41
30D	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.5	0.5	0.05	42.15

41B							0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.3	0.3	0.05	45.40
44A	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.2	0.2	0.05	0.05	0.05	0.1	0.3	0.3	0.05	31.78
45D							0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.3	0.3	0.05	32.16
48A	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.1	0.6	0.6	0.05	32.77
581	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.5	0.5	0.05	29.94
59C							0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.8	0.8	0.05	36.67
64H	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.1	0.9	0.9	0.05	44.09
69A	0.05	0.05	0.2	0.1	0.1	0.2	0.05	0.05	0.05	0.7	0.7	0.05	0.05	0.05	0.1	0.3	0.3	0.10	38.71
71B	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.4	0.4	0.05	0.05	0.05	0.1	0.3	0.3	0.05	36.36
72C	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.3	0.3	0.05	0.05	0.05	0.1	0.4	0.4	0.05	36.12
74C	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.3	0.3	0.05	0.05	0.05	0.1	0.6	0.6	0.10	31.22
89A	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.2	0.2	0.05	0.05	0.05	0.1	0.9	0.9	0.10	38.90
90A							0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.1	0.5	0.5	0.05	38.90
96A	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.4	0.4	0.05	0.05	0.05	0.1	0.5	0.5	0.05	41.75
																			39.07
UP13A	0.05	0.05	0.05	0.05	0.1	0.1													39.07
UP13A Median		0.05 bd	0.05 0.05	0.05 0.05	0.1 0.05	0.10		bd	0.05	0.08	0.08	0.05		bd	0.05	0.50	0.50	0.05	36.41
								bd 0.05	0.05 0.10	0.08	0.08 0.70	0.05		bd 0.05	0.05 0.10	0.50	0.50	0.05 0.15	
Median		bd	0.05	0.05	0.05	0.10													36.41
Median Max		bd 0.05	0.05 0.20 TKN	0.05	0.05 0.10 eldahl	0.10 0.30 High l		0.05 nutrients		0.70		0.05	phic Sta	0.05		1.90	1.90	0.15	36.41 51.65
Median Max NO2 = 1		bd 0.05 organic)	0.05 0.20 TKN Nitroger	0.05 0.10 = Total Kir	0.05 0.10 eldahl + NH4)	0.10 0.30 High locan incrunoff septic	dicate th or efflue system	nutrients ne present from v	0.10 s in our conce of fe wastewa	0.70 canals rtilizer ter or trients		O.05 TSI = Tro Trophic 41 sites	State Ind this qua	0.05 te Index, lex, a qui	0.10 a quick i ck indica ed as GO	1.90 ndicator of cator of cat	1.90	0.15 I health.	36.41 51.65
Median Max NO2 = 1	Nitrite (ino Nitrate (ino	bd 0.05 organic)	0.05 0.20 TKN Nitroger TN = (inorg	0.05 0.10 = Total Kjø n (organic	0.05 0.10 eldahl + NH4) ogen panic)	0.10 0.30 High locan incrunoff septic	dicate th or efflue system od to nui	nutrients ne present from v	0.10 s in our conce of fe wastewalessive nullant grow	0.70 canals rtilizer ter or trients		TSI = Tro Trophic 41 sites (60-70), First qua	State Ind this qua and zero arter 202	te Index, lex, a qui rter scor o scored	a quick i ck indica ed as GO POOR (>) quality c	ndicator ator of ca OD (<60) 70).	1.90 of canal anal heal care si	0.15 I health. th. tes score	36.41 51.65 TSI =
Median Max NO2 = 1	Nitrite (ino Nitrate (ino mmonia (ir	bd 0.05 organic) organic)	0.05 0.20 TKN Nitroge TN = (inorg	0.05 0.10 = Total Kjen (organic : Total Nitr ganic + org	0.05 0.10 eldahl + NH4) ogen panic)	0.10 0.30 High locan incrunoff septic	dicate th or efflue system od to nui	nutrients ne present from vs. Exce sance pl	0.10 s in our conce of fe wastewalessive nullant grow	0.70 canals rtilizer ter or trients		TSI = Tro Trophic 41 sites (60-70), First qua trend sin excelent during the	State Ind this qua and zero arter 202 nce fourt water cl he dry se that man	te Index, lex, a qui rter scored 0 water h quarte arity and asson. All	0.10 a quick i ck indica ed as GO POOR (>)	ndicator ator of ca OD (<60) 70). ontinued Many can ed salini ceived "g	of canal anal heal canal heal canal with the als conti ities for to cod" TSI	0.15 I health. th. etes score improving in the tidal values. The tidal values.	36.41 51.65 TSI = ed FAIR ing show areas This

Native Plant Sale and Rain Barrel Workshop July 25th, 2020

Bored in the house? Ready to plant some interesting plants or introduce some Florida natives to your home landscape? Have a need for collecting rainfall for irrigation?

The Summer Plant Sale will be held at Rotary Park Environmental Center located at 5505 Rose Garden Rd. From 9:00 am to 1:00 pm. This outdoor plant sale will have something for everyone including hundreds of native trees, shrubs, flowers, grasses, butterfly attracting plants and some tropical and edible plants.

Plant enthusiasts and experts will be available to answer questions and guide you to a plant that's right for your home landscape. It's best to come early for the best selection.

Virtual Rain Barrel Class

An age-old technology, rain barrels are an outstanding way to reduce stormwater runoff while collecting rainwater for irrigation.

The Rain Barrel Workshop is led by the Lee County Master Gardeners. During the hour-long session, you will learn how to make and install a rain barrel for home use. This online workshop is from 10:00 a.m. to 11:00 a.m. Advance registration and payment are required. Registration is limited due to the number of barrels that are available.

The cost to participate is \$45 per barrel. This fee includes taking the class and a receiving a pre-assembled rain barrel.

A ZOOM MEETING CODE WILL BE SENT TO YOU. PICK UP ARRANGEMENTS WILL BE DISCUSSED DURING REGISTRATION.

For more information please call Rotary Park at 239-549-4606.

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