

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 4th Quarter 2022

Environmental News

25th Anniversary of the Great American Cleanup.

It's time for spring cleaning on a national level. Keep America Beautiful, a leading not for profit that engages the public in litter awareness and encourages communities to band together to show support for healthy communities and a heathy environment through debris cleanup is celebrating its 25th annual Great American Cleanup.

This annual cleanup event is one of the nation's largest. Its goal is to bring communities throughout the nation together to show their support for beatification and neighborhood improvement.

This area's local affiliate, Keep Lee County Beautiful (KLCB) will be



hosting the Great American Cleanup on April 1st from 8 to 11 am throughout Lee County. For more information on this event, please visit KLCB.org. Volunteers of all ages are welcome, whether it be an individual, family, neighborhood association, school, place of worship, or business. Please consider joining with KLCB's for the 25th anniversary Great American Cleanup.



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Questions? Comments? Let us know!

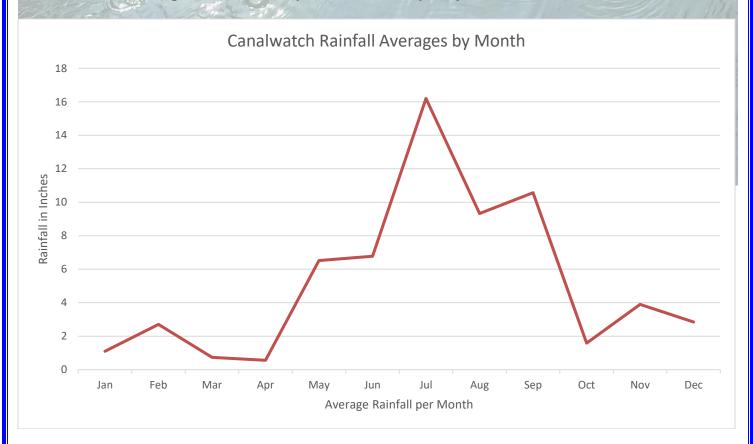
(239) 574-0742

Harry: hphillips@capecoral.gov

2022 Year in Review

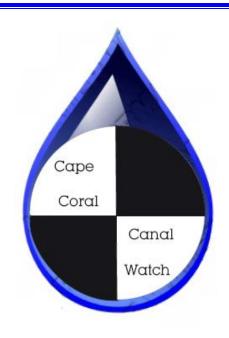
- In 2022, we received 302 Canalwatch samples. Thank you for all your hard work and participation!
- Also in 2022, we received 102 Chlorophyll samples in addition to our regular samples.
- We trained 3 new volunteers this year. Welcome!
- There are currently 41 active stations.

Total average rainfall for Cape Coral for the past year was about 61.25 inches



Rainfall data is an average of each reporting Canalwatch site per month. October data includes totals from NOAA due to lack of Canalwatch data collection in Hurricane lan's aftermath.

Why is rainfall data important to water quality? Stormwater runoff produced by rain flows over impervious surfaces, such as streets, parking lots, sidewalks, rooftops, and does not permeate into the ground. Runoff can pick up pollutants like trash, sediment, fertilizers, and other chemicals and transport it into receiving waterbodies. In the urban environment, these pollutants are ever present. Stormwater structures such as swales, ditches and catch basins can collect and lessen the impact of pollution from illegal dump sites, construction sites, and lawns, but it's best to prevent pollution at its source. In effect, pollution prevention is key to good water quality.



Please join us for the 20thannual Canalwatch Luncheon

April 5th, 2023

10 am - 1:00 pm

At Rotary Park

Environmental Center (inside)

5505 Rose Garden Rd.

- Water sample drop-off. Meet and greet other volunteers near you and throughout Cape Coral
- BBQ Lunch will be provided
- The following Special Speakers will present on water quality topics,
 with discussion to follow:

Prof. Mike Parsons and his team, Florida Gulf Coast University Harmful Algal Blooms

Eric Milbrandt, PhD, Sanibel Captiva Conservation Foundation Oyster Restoration in Southwest Florida

- Environmental Resources will present some of the city's water quality initiatives and setup a Rain barrel Raffle
- Please RSVP to Harry Phillips, 239-574-0742 or hphillips@capecoral.gov by March 22nd.

Kindly let us know if you will be joining us at Rotary Park or if your bottle for May should be at the usual drop off location.

WE HOPE YOU CAN JOIN US!

	bd = below detection benchmark numbers: Marked data are in the highest 20% of values found by Hand et. al, 1988.																				
	October (Due to Hurricane lan, no data)							November 2022							December 2022						
	NO2 NO3 NH3 TKN T-N T-PO4						NO2	NO3	NH3	TKN	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	Avg		
	< 1.0	<1.0	none set		<2.0	<0.46	<1.0	<1.0	none	e set	<2.0	<0.46	<1.0	<1.0	none	e set	<2.0	<0.46	TSI		
4-2A							0.1	0.08	0.63	1.11	1.2	0.31	0.1	0.19	0.1	1.0	1.19	0.2	59.53		
7E							0.1	0.2	0.17	0.89	1.1	0.14	0.1	0.22	0.1	0.5	0.72	0.1	54.74		
9H							0.1	0.2	0.24	0.98	1.2	0.18	0.1	0.15	0.1	0.4	0.55	0.2	51.99		
12H							0.1	0.08	0.05	1.03	1.1	0.06	0.1	0.21	0.1	0.5	0.71	0.1	51.91		
15G													0.1	0.1	0.2	0.1	0.2	0.1	24.13		
16E													0.1	0.01	0.1	0.4	0.41	0.1	38.35		
161							0.1	0.01	0.07	0.98	1.0	0.08	0.1	0.01	0.1	0.2	0.21	0.2	42.32		
18K													0.1	0.02	0.1	0.7	0.7	0.1	55.28		
18L													0.1	0.18	0.1	0.9	1.1	0.1	59.87		
18M							0.1	0.02	0.07	1.05	1.1	0.06	0.1	0.05	0.1	0.3	0.4	0.1	46.23		
19D							0.1	0.2	0.1	1.30	1.5	0.21	0.1	0.24	0.1	0.5	0.74	0.1	53.12		
21D							0.1	0.1	0.1	1.00	1.0	0.32	0.1	0.11	0.1	0.6	0.71	0.1	52.61		
211							0.1	0.05	0.1	0.87	0.9	0.02	0.1	0.02	0.1	0.6	0.6	0.1	46.11		
24D							0.1	0.01	0.016	0.96	1.0	0.07	0.1	0.01	0.1	0.1	0.11	0.1	48.56		
30D							0.1	0.02	0.06	1.14	1.2	0.02	0.1	0.03	0.1	0.1	0.13	0.1	26.46		
30E							0.1	0.03	0.06	1.06	1.1	0.02	0.1	0.05	0.1	0.1	0.2	1.0	31.18		
44A							0.1	0.01	0.04	0.97	1.0	0.02							43.38		
44B													0.1	0.07	0.1	0.7	0.8	1.0	50.82		
45D													0.1	0.03	0.1	0.1	0.13	0.1	34.67		
48A													0.1	0.02	0.1	0.1	0.1	0.1	37.54		

50B						0.1	0.04	0.09	1.36	1.4	0.08	0.1	0.03	0.1	0.1	0.13	0.1	31.12		
64H						0.1	0.01	0.55	1.19	1.2	0.07	0.1	0.08	0.1	0.1	0.18	0.2	57.72		
70H						0.1	0.1	0.2	0.94	1.0	0.11	0.1	0.01	0.1	0.1	0.11	0.1	35.87		
72C						0.1	0.08	0.16	0.96	1.0	0.19	0.1	0.09	0.1	0.1	0.19	0.1	44.94		
74C												0.1	0.01	0.1	0.1	0.11	0.1	26.99		
74G						0.1	0.02	0.06	0.73	0.8	0.22							49.72		
82A						0.1	0.01	0.05	0.96	1.0	0.08	0.1	0.01	0.1	0.1	0.11	0.1	50.4		
94C						0.1	0.03	0.1	4.11	4.1	0.02	0.1	0.01	0.1	0.3	0.31	1.0	35.07		
Median	####	#####	*****	#####	#####		0.04	0.10	0.99	1.10	0.08		0.04	0.10	0.25	0.26	0.10	46.17		
Max	0.00	0.00	0.00	0.00	0.00		0.20	0.63	4.11	4.10	0.32		0.24	0.20	1.00	1.19	1.00	59.87		
NO2 = Nitrite (inorganic) TKN = Total Kjeldahl Nitrogen (organic + NH4)				High levels of nutrients in our canals can indicate the presence of fertilizer						TSI = Trophic State Index, a quick indicator of canal health. 28 sites this quarter scored as GOOD (<60). Zero site scored										
NO3 = Nit	NO3 = Nitrate (inorganic) TN = Total Nitrogen (inorganic + organic)			_	runoff or effluent from wastewater or septic systems. Excessive nutrients						FAIR (60-70), and zero scored POOR (>70). 4th quarter 2022 water quality continued to maintain good									
NH3 = Ammonia (inorganic) TPO4 = Total Phosphate							isance p gal bloon	_	vth and		standing despite the stormwater influence from Hurricane Ian. However, if data collection would have occurred in									
All nutrient co	ncentrations sho	wn in mg/L									October, it may have shown significantly different results.									
											Even in	Noven	nber and	d Decem	ber son	ne spike	s in Nit	rogen		
											and Ph	osphor	us were	evident	at a fev	v sites. I	Hurricar	ne Ian		
											dumpe	d plent	y of rain	fall just	before	the end	of the	wet		
											season	. Howe	ver, the	lack of s	stormwa	ater sinc	e then	has		
										lead to low water levels in many of the freshwater basin								asin		
											areas. Watering restrictions are in effect during the spring.									

For up-to-date City of Cape Environmental Resources Division water quality date visit https://www.capecoral.net/department/public_works/quarterly_water_quality_reports.php

Upcoming Events

Canalwatch April Luncheon (see attached flyer) Wednesday, April 1st 10am to 1pm

Florida Native Plant Sale And Rain Barrel Workshop Saturday, April 22nd 9am to 2 pm

Earth Day Plant Sale on Saturday, April 22nd at Rotary Park (5505 Rose Garden Road). Shop from a variety of native trees, shrubs, flowers, grasses, butterfly plants, and tropical edibles, too.

Plant experts will be on hand to answer questions and help you choose the right plant for the right place. Come early for the best selection.

For more information, call Rotary Park at 239-549-4606

Rain barrels are a great way to reduce stormwater runoff and save water for a dry season. In this workshop led by Lee County Master Gardeners, you will learn how to make and install a rain barrel to use at home. The class fee includes a pre-assembled rain barrel and is held on the same day as the native plant sale. Advance registration and payment are required as a limited number of barrels are available.

For more information, call Rotary Park at 239-549-4606

City of Cape Coral Environmental Resources 815 Nicholas PKWY Cape Coral, FL 33990