



# Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 3<sup>rd</sup> Quarter 2011

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## Environmental News

## Native Plant Profile

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### Canalwatch November Social!

The November 2nd Canalwatch meeting will be held at Rotary Park. This annual social event gives Canalwatchers the opportunity to get acquainted with each other and is a chance for new volunteers to meet the seasoned veterans.

This year's guest speaker is Mike Campbell, an Environmental Specialist with Lee County Natural Resources, who is conducting research on red mangroves and mussels in Southwest Florida.

Mr. Campbell will speak about some restoration efforts he is conducting in the area. He is very interested in sharing his ideas with Cape Coral's Canalwatch volunteers.

**Please RSVP for this event, as we will need to know whether to bring your empty bottle to Rotary or leave it at the usual place.** You can RSVP by email to the address below or by calling 574-0785. Coffee and donuts will be provided. Hope to see you there!

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### Questions? Comments? Let us know!

(239)574-0785

Harry: [hphillips@capecoral.net](mailto:hphillips@capecoral.net)

### Poison Ivy

#### *Toxicodendron radicans*



In the spirit of Halloween, I thought I would write about a plant not welcome in ones landscape: Poison Ivy! If you have ever had the unfortunate experience of rubbing up against this climbing vine, then you know that poison ivy is something to watch out for when enjoying outdoor activities in natural areas.

Isn't there something about "leaves of three"? Yes! "Leaves of three, let it be" is the mnemonic to help remember what to avoid. Poison ivy is a vine with three leaves on each stem, with one terminal and the other two opposite. It can be green or reddish orange in the fall. It does have berries as well.

The "poison" is found in the oils of the plant that, once in contact with skin, create a rash that can irritate for days. While scratching the itch can't spread the rash once the oils have been washed off, scratching directly after contact with the plant can spread the oils, thereby spreading the irritation. Wash your skin and clothes immediately!

Home remedies abound, e.g., rubbing alcohol, lye soap, Epsom salt and even bleach! Calamine lotion is a tried and true relief, as is cortisone. If it's a serious case, prescription drugs may be the best bet.

# Nature of Cape Coral Bus Tours

The weather is becoming more pleasant, so it's time to get outside and enjoy nature. What better place to do that than right here in Cape Coral? Cape Coral is home to a diverse amount of unique wildlife waiting to be discovered. The City of Cape Coral Parks and Recreation department is offering a great way to view wildlife around the city - through a bus tour!

Take a tour around the city in an air-conditioned mini-bus. Your guide will tell you all about the wonderful wildlife that lives in Cape Coral. Possible sightings include burrowing owls, manatees, eagles, osprey, various song birds and butterflies.

There are limited seats on the bus, so **advance registration is required**. The tour departs Rotary Park at 8:00 a.m. All tours are Saturdays from 8:00 a.m. - 12:00 p.m.

The cost for the tour is \$15 for residents and \$23 for non-residents. Activity # 145333

Tour Dates: November 12, and December 10.

Rotary Park Environmental Center, 5505 Rose Garden Road, Cape Coral, Florida

Please dress appropriately for the weather and wear comfortable walking shoes.

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## Monofilament Madness

Monofilament fishing line and braided fishing lines (Power Braid, Fire Wire, etc.) cause problems in the environment by creating entanglement hazards for birds and other wildlife.

These fishing lines get tangled in coastal trees such as red mangroves and structures such as bridges and docks, or can become snagged on underwater structures such as reefs. Birds, dolphins, turtles and manatees are threatened by fishing line once it finds its way into the environment.

So what is the answer for preventing this from happening? Just being mindful of the environment when fishing is sometimes not a solution, as even the most eco-savvy angler gets frustrated by snags and tangles and may not be able to retrieve what broke off.

The Monofilament Recovery and Recycling Program (MRRP) supports the use of monofilament recycling bins (often seen at boat ramps and fishing piers) and encourages anglers to retain clippings or sections of fishing line on board the boat until they can be recycled. Another way to help rid the environment of this plastic menace is to hold a monofilament clean-up event in which fishing line and other harmful debris are picked up by able volunteers.

The next event will be held on October 30<sup>th</sup> at the Cape Coral Yacht Club from 8:00 am till 12:00 pm. This year's event is organized by South West Florida Naturally and Keep Lee County Beautiful. If you are interested in joining this effort, please contact Lynda at

lynda@swflnaturally.com or call 239-541-1735. Pre-registration is required. Supplies for the clean-up, as well as lunch, will be provided. To find out more about Monofilament Madness and other area clean-ups, visit the Keep Lee County Beautiful web site at [klcb.org](http://klcb.org).



# Canalwatch Extra Field Data

## 3<sup>rd</sup> Quarter 2011

90A	July	Aug	Sep
DO	4.4	4.2	3.2
pH	8.2	7.6	7.4
Temp	29	32	27
Sal	26	4	0

80A	July	Aug	Sep
DO	4.5	0.8	2.3
pH	7.2	7.2	7.2
Temp	28	29	27
Sal	4	1	1

Ft. Myers RECON			
	April	May	June
DO	7.52	6.06	-
Temp	25.72	28.91	-
Sal	17.11	19.83	-

RECON data provided by  
SCCF Marine Laboratory  
recon.sccf.org

26D	July	Aug	Sep
DO	4.7	3.4	4.4
pH	7.6	7.2	7.6
Temp	30	29	28
Sal	5	2	0

	Full Name	Units
DO	Dissolved Oxygen	m g/L
pH	pH	--
Temp	Temperature	°C
Sal	Salinity	ppt

DO values that are below the state standard of 4 mg/L are highlighted in yellow.

Please see the 2nd quarter 2009 newsletter for a more in-depth explanation of these water quality measurements.

74B	July	Aug	Sep
DO	6.2	6.2	5.2
pH	8.4	8	7.8
Temp	30	31	29
Sal	6	-	-

10B	July	Aug	Sep
DO	-	4.95	4.3
pH	-	7.8	7.7
Temp	-	31	28
Sal	-	5	4

74C	July	Aug	Sep
DO	7.2	6.4	4.2
pH	8.6	8.6	7.8
Temp	30	35	27
Sal	6	7	5

4E	July	Aug	Sep
DO	6.4	4.75	4.5
pH	8	8	8
Temp	29	30.5	27
Sal	24	16	8

64C	July	Aug	Sep
DO	3.25	-	3.1
pH	8	-	7.8
Temp	30	-	29
Sal	28	-	15

Shell Point RECON			
	April	May	June
DO	6.24	6.58	-
Temp	25.25	28.99	-
Sal	16.23	35.11	-

bd = below detection

benchmark numbers: Marked data are in the highest 20% of values found by Hand et. al, 1988.

	July 2011						August 2011						September 2011						Avg TSI
	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	
	<1.0	<1.0	none set		<2.0	<0.46	<1.0	<1.0	none set		<2.0	<0.46	<1.0	<1.0	none set		<2.0	<0.46	
3F	bd	bd	0.1	0.9	0.9	0.07	bd	bd	0.1	0.7	0.7	bd	bd	bd	bd	0.7	0.7	0.06	50.19
4E	bd	bd	bd	1.0	1.0	0.09	bd	bd	bd	0.9	0.9	0.08	bd	0.07	bd	1.0	1.07	0.13	58.15
6F	bd	bd	bd	0.7	0.7	0.11	bd	bd	0.2	1	1.0	0.14	bd	0.06	bd	1.1	1.16	0.14	54.89
7B	bd	bd	bd	0.9	0.9	0.12	bd	bd	bd	0.7	0.7	0.09	bd	bd	bd	1.0	1.0	0.10	52.26
7C	bd	bd	bd	0.8	0.8	0.13	bd	bd	bd	0.7	0.7	0.08	bd	bd	bd	1.3	1.3	0.10	48.71
7D							bd	bd	bd	0.8	0.8	0.10	bd	0.18	bd	1.3	1.48	0.16	58.64
9E	bd	bd	bd	0.7	0.7	0.12	bd	bd	bd	0.8	0.8	0.09	bd	bd	bd	1.0	1.0	0.06	54.62
10B							bd	bd	bd	0.4	0.4	0.04	bd	bd	bd	0.7	0.7	0.15	47.47
11D							bd	bd	bd	0.9	0.9	0.12	bd	0.07	bd	1.0	1.07	0.15	52.41
15D	bd	bd	bd	1.1	1.1	0.13	bd	bd	bd	0.6	0.6	0.04	bd	0.08	bd	1.0	1.08	0.07	53.08
15E													bd	0.08	bd	0.9	0.98	0.03	52.29
16E	bd	bd	bd	1.0	1.0	0.04	bd	bd	bd	0.8	0.8	0.04	bd	0.08	bd	0.9	0.98	0.03	58.06
16G	bd	bd	bd	1.0	1.0	bd	bd	bd	bd	0.8	0.8	0.06	bd	bd	bd	0.9	0.9	0.04	57.83
17B	bd	bd	bd	0.7	0.7	0.03													55.87
18G	bd	bd	bd	0.7	0.7	0.03	bd	bd	bd	0.8	0.8	0.03							57.35
18H	bd	bd	bd	1.4	1.4	0.03	bd	bd	bd	1.1	1.1	0.03							58.85
19D							bd	bd	bd	0.9	0.9	0.15	bd	0.10	0.1	1.3	1.40	0.10	60.35
21D	bd	bd	bd	0.8	0.8	0.14	bd	bd	bd	0.8	0.8	0.08	bd	0.06	bd	0.9	0.96	bd	56.24
26D	bd	bd	0.1	1.0	1.0	bd	bd	bd	bd	0.9	0.9	0.04	bd	bd	0.2	2.1	2.1	bd	55.08
28D	bd	bd	bd	1.1	1.1	0.04	bd	bd	bd	0.8	0.8	0.02	bd	bd	bd	1.1	1.1	0.06	57.40
30A							bd	bd	bd	0.5	0.5	0.03	bd	bd	bd	0.6	0.6	0.02	44.60
30C	bd	bd	bd	0.9	0.9	bd	bd	bd	bd	0.6	0.6	0.03							49.75
35A	bd	bd	bd	0.8	0.8	0.02							bd	bd	bd	0.5	0.5	0.02	38.56
41A	bd	bd	bd	0.6	0.6	0.01	bd	bd	bd	0.4	0.4	0.01	bd	bd	0	0.6	0.65	0.03	31.68
45D	bd	0.06	bd	0.6	0.6	0.03	bd	bd	bd	0.7	0.7	0.02	bd	bd	bd	0.8	0.8	0.03	52.32
45E	bd	bd	bd	0.7	0.7	0.04													59.90
48A							bd	bd	bd	0.5	0.5	0.01	bd	bd	0.1	0.8	0.8	0.02	30.87
52B	bd	bd	bd	0.6	0.6	0.02	bd	bd	bd	0.6	0.6	0.01	bd	bd	0	0.5	0.5	0.02	40.06
58E	bd	bd	bd	0.9	0.9	0.03							bd	bd	bd	0.8	0.8	0.04	69.88
58F													bd	bd	bd	1.0	1.0	0.02	37.32
58G	bd	bd	bd	0.9	0.9	0.03	bd	bd	bd	1.0	1.0	0.04	bd	bd	bd	0.8	0.8	0.03	50.96
58I	bd	bd	bd	0.8	0.8	0.02	bd	bd	bd	4 1.0	1.0	0.03	bd	bd	bd	0.7	0.7	0.02	43.33

59B	bd	bd	bd	1.0	1.0	0.03	bd	bd	bd	0.8	0.8	0.02	bd	bd	bd	0.6	0.6	0.02	46.32
64B							bd	bd	bd	0.7	0.7	0.07	bd	bd	bd	0.7	0.75	0.09	45.13
64C	bd	bd	bd	0.7	0.7	0.07							bd	0.07	bd	0.6	0.67	0.09	45.71
65B	bd	bd	0.1	1.1	1.1	0.09	bd	bd	bd	1.0	1.0	0.08	bd	bd	bd	0.7	0.7	0.08	63.21
66A	bd	bd	0.2	1.8	1.8	0.03	bd	bd	bd	0.9	0.9	0.02	bd	bd	bd	0.7	0.7	0.03	50.02
70F	bd	bd	bd	0.8	0.8	0.04	bd	bd	bd	0.9	0.9	0.03	bd	bd	bd	0.5	0.5	0.06	46.76
71A	bd	bd	bd	0.7	0.7	0.04	bd	0.20	bd	0.6	0.80	0.02	bd	0.15	bd	0.3	0.45	0.04	45.98
72A	bd	bd	bd	0.8	0.8	bd													48.29
72C	bd	bd	bd	0.9	0.9	0.04	bd	bd	bd	1.0	1.0	0.04	bd	bd	0	0.8	0.8	0.06	55.38
74B	bd	bd	bd	1.0	1.0	0.04	bd	bd	bd	1.3	1.3	0.04	bd	bd	bd	1.1	1.1	bd	53.64
74C	bd	bd	bd	1.0	1.0	0.03	bd	bd	bd	0.9	0.9	0.04	bd	bd	0	0.8	0.8	bd	49.76
74F													bd	bd	bd	0.9	0.9	bd	57.60
80A	bd	bd	bd	0.2	0.2	0.01	bd	bd	bd	1.1	1.1	0.02	bd	bd	0	0.9	0.9	0.02	38.69
81A	bd	bd	bd	5.0	5.0	0.41							bd	0.08	bd	3.6	3.68	0.17	56.71
82A	bd	bd	bd	1.3	1.3	bd							bd	bd	0.1	0.8	0.8	0.02	55.23
83A	bd	bd	bd	1.3	1.3	0.03	bd	bd	bd	0.9	0.9	0.01	bd	bd	bd	0.7	0.7	0.02	45.40
89A	bd	bd	bd	1.1	1.1	0.16	bd	bd	bd	0.8	0.8	0.15	bd	0.08	0.1	0.9	0.98	0.16	58.66
90A	bd	bd	bd	1.7	1.7	0.04	bd	bd	bd	1.4	1.4	0.03	bd	bd	bd	1.2	1.2	0.03	56.81
91A	bd	bd	bd	0.8	0.8	0.01	bd	bd	bd	1.6	1.6	0.02	bd	0.07	bd	0.8	0.87	0.03	39.49
93B	bd	bd	bd	0.8	0.8	0.04	bd	bd	bd	1.0	1.0	0.04	bd	bd	bd	0.8	0.8	0.09	56.35
97A	bd	bd	bd	0.8	0.8	0.01	bd	bd	bd	0.6	0.6	0.01	bd	bd	bd	1.0	1.0	bd	36.22
<b>Median</b>	<b>0.06</b>	<b>0.10</b>	<b>0.90</b>	<b>0.90</b>	<b>0.04</b>		<b>0.20</b>	<b>0.15</b>	<b>0.80</b>	<b>0.80</b>	<b>0.04</b>		<b>0.08</b>	<b>0.05</b>	<b>0.80</b>	<b>0.87</b>	<b>0.04</b>	<b>52.32</b>	
<b>Max</b>	<b>0.06</b>	<b>0.20</b>	<b>5.00</b>	<b>5.00</b>	<b>0.41</b>		<b>0.20</b>	<b>0.20</b>	<b>1.60</b>	<b>1.60</b>	<b>0.15</b>		<b>0.18</b>	<b>0.20</b>	<b>3.60</b>	<b>3.68</b>	<b>0.17</b>	<b>69.88</b>	

NO2 = Nitrite (inorganic)	TKN = Total Kjeldahl Nitrogen (organic + NH4)	High levels of nutrients in our canals can indicate the presence of fertilizer runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.
NO3 = Nitrate (inorganic)	TN = Total Nitrogen (inorganic + organic)	
NH3 = Ammonia (inorganic)	TP04 = Total Phosphate	

All nutrient concentrations shown in mg/L

TSI = Trophic State Index, a quick indicator of canal health. 49 sites this quarter scored as GOOD (<60). 2 sites scored FAIR (60-70), and one was very close to POOR (>70). As the summer comes to an end so does the rainy season. Secchi measurements should improve for many of you and you may find that it is visible on the bottom more often.

## October

5<sup>th</sup> Canalwatch

5<sup>th</sup> Sunset Celebration  
Yacht Club Pier 4-7pm

11<sup>th</sup> Friends of Wildlife  
Meeting at Rotary Park  
7 – 9 PM  
ccfriendsofwildlife.org

15<sup>th</sup> Florida Yards and  
Neighborhoods  
Yard Tours 9 – 12  
Tour begins at Rotary Park  
Info: 549-4606

21<sup>st</sup> Mangrove Gathering  
Environmental Club 7-10pm  
Rotary Park  
Info: 549-4606

## November

2<sup>nd</sup> Canalwatch  
November Social  
At Rotary Park!

2<sup>nd</sup> Sunset Celebration  
Yacht Club Pier 4-7pm

4<sup>th</sup> Florida Yards and  
Neighborhoods Intro Class  
Rotary Park  
1 – 4 pm  
Info: 549-4606

15<sup>th</sup> Friends of Wildlife  
Meeting at Rotary Park  
7 – 9 PM  
ccfriendsofwildlife.org

24<sup>th</sup> / 25<sup>th</sup> Thanksgiving

30<sup>th</sup> Hurricane season ends!

## December

7<sup>th</sup> Canalwatch

7<sup>th</sup> Sunset Celebration  
Yacht Club Pier 4-7pm

13<sup>th</sup> Friends of Wildlife  
Meeting at Rotary Park  
7-9pm info: 980-2593

25<sup>th</sup> Christmas  
Office will be closed on the 26<sup>th</sup> to  
observe the holiday

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City of Cape Coral  
Environmental Resources  
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Cape Coral, FL 33915-0027