

Canalwatch



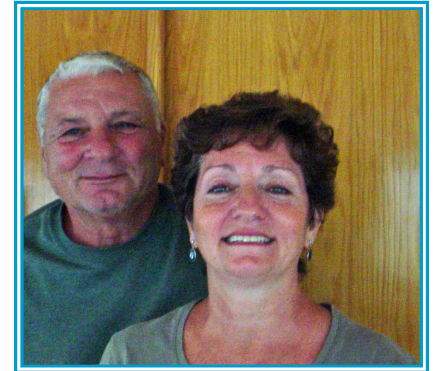
2nd Quarter 2006 Newsletter ~ Environmental Resources Division ~ (239) 574-0745

Please Welcome Our Newest Volunteers!!!

Alec Hart



Thomas McNamera



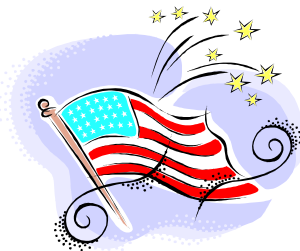
Susan & Tony Porreca

Joan DiBattista



Robert & Anne
McGuire

Happy 4th of July!!!
~ ERD Staff



Linda Redditt
&
Kenton Beal

Newsletters now available by E-mail!

Thanks to Kraig Hankins for creating an electronic newsletter for Canalwatch!!!

Please write fopatry@capecoral.net if you would like to receive the Canalwatch newsletter by E-mail.

Future Volunteers:

- Jay Lagace (55A)
- Richard Jacobia (58G)
- Ray & Connie Wyant (83A)
- Frank & Karen DeLuca (74A)
- Ronald & Janice Place (70D)



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What Else Can I Do To Help Protect The Waterfront?

By volunteering in Canalwatch you have already come to appreciate how fragile and beautiful Cape Coral's Canals can be. If you have ever wondered "What else can I do?" There is good news ahead. Here are some tips that are simple and effective at helping to improve water quality in the aquatic part of your yard:

- 1 Simply by changing what we do in our yards can show great improvements to the aquatic environment! Two of the most important Florida Yards & Neighborhoods Principles for a Canalwatch Volunteers are: Reducing Stormwater Runoff & Protecting the Waterfront.

FACT: One inch of rain on a 1000 SF of roof yields 625 gallons of water! Rain Barrels are a great way to collect some of this water. Not only does this give you free water, but it reduces stormwater runoff.



Rain Barrel Workshop

July 29th at Rotary Park from 9:30-11:30am

To register call: Carol at (239) 461-7526

Cost: \$25.00 (includes a rain barrel and conversion kit)

*class size is limited to 25 students. Future classes

announced at: <http://lee.ifas.ufl.edu/fynmain.htm>

- 2 Re-create a **Natural Ecosystem** in your canal! The seawalls that line our canal system are foreign to nature. To enjoy the wading birds, fish, and other beautiful wildlife that call the canals home ~ give them, and yourself, a gift that will keep on giving ~ native vegetation. Planting in the aquatic part of your yard will create important habitat and food for wildlife while also improving water quality!

If you live on a **Salt water** canal you most likely have rip-rap, this helps to improve water flow and circulation. The red mangrove (*Rhizophora mangle*) typically lives closest to open water and can be planted in the rip-rap. The beauty, wildlife value, and erosion protection make mangroves an asset to salt water canals, not to mention they also help to reduce turbidity (water cloudiness).



FACT: Mangroves may be trimmed by the home owner within 50' of shore of their property when the mangrove height exceeds 6', but is not taller than 10' and the mangrove is not reduced in height below 6'.

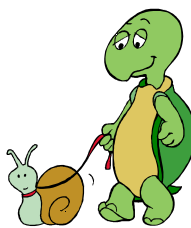
More information & the booklet, Mangrove Trimming Guidelines for Homeowners is available at <http://www.dep.state.fl.us/water/wetlands/mangroves/mangrove.htm>

If you live on a **Fresh water** canal there are numerous littoral plants that attract wildlife and help improve water quality by absorbing nutrients. Littoral plants are those found along a shoreline (not to be confused with submerged aquatic vegetation), and include such beauties as Blue Flag Iris (*Iris virginica*), Lizard's Tail (*Saururus cernuus*), Golden Canna Lily (*Canna flaccida*), and Duck Potato (*Sagittaria lancifolia*). Many pictures and descriptions are available at: <http://plants.ifas.ufl.edu> or please request the booklet Cape Coral Littoral Plant Guide from ERD. **Aquatic plants can be purchased at local nurseries!**

- 3 Join **Adopt-A-Canal:** Another great opportunity to protect & enhance Cape Coral's aquatic environments is by helping to remove trash, debris, & flotsam! If you are interested in helping please contact the Canalwatch Coordinator for more information.

- 4 Reduce Fertilize use. **Slow-Release Fertilizer** is best for coastal communities. These products have less potential to leach or runoff into our waterways than quick-release sources. When shopping

look for the amount of nitrogen that is "slow-release", the higher the percentage of slow-release, the less chance for leaching.



If you would like more information or further assistance on any of the above tips please contact the Canalwatch Coordinator at fopatry@capecoral.net or call 574-0745!

Volunteer Corner

Here's something new ~ If you have any special announcements to share with other Canalwatch Volunteers I will post them here!

Substitute Volunteer Needed – Site 67C for next 6 months. Call (ERD) at 574-0745 to help!

New Resident Environmental Education packets now available. Call ERD at 574-0745.

Adopt-A-Canal needs volunteers! Please contact Janet at 574-0760 for more information!

Canal Watch Data - Second Quarter 2006

STATION	April						May						June					
	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4
1A	<0.050	0.19	<0.10	0.80	0.99	0.060	<0.050	0.20	0.10	0.50	0.70	0.10	<0.050	0.23	0.20	2.6	2.83	0.18
1B	<0.050	0.22	<0.10	1.4	1.62	0.060	<0.050	0.47	0.20	0.50	0.97	0.080	<0.050	0.21	0.20	2.0	2.21	0.090
1C	<0.050	0.31	0.10	1.1	1.41	<0.050	<0.050	0.35	<0.10	0.50	0.85	0.080	<0.050	0.21	0.10	2.6	2.81	0.11
3D							<0.050	0.19	0.20	0.70	0.89	0.050	<0.050	0.23	0.20	2.3	2.53	0.090
3F	<0.050	0.24	0.10	1.2	1.44	<0.050	<0.050	0.21	0.10	1.1	1.31	<0.050	<0.050	0.26	0.20	2.2	2.46	0.090
4D	<0.050	0.27	0.10	0.80	1.07	<0.050	<0.050	0.23	0.30	1.0	1.23	0.080						
6D	<0.050	0.26	0.20	0.90	1.16	0.060	<0.050	0.20	0.10	1.1	1.30	0.080	<0.050	0.26	0.10	2.3	2.56	0.14
6F	<0.050	0.22	0.10	1.6	1.82	<0.050	<0.050	0.20	0.10	1.1	1.30	0.090	<0.050	0.18	0.10	2.0	2.18	0.13
9A							<0.050	0.20	0.20	0.90	1.10	0.10	<0.050	0.22	0.20	2.2	2.42	0.14
10B	<0.050	0.26	0.10	1.7	1.96	<0.050	<0.050	0.18	0.10	0.80	0.98	<0.050	<0.050	0.20	0.20	1.5	1.70	0.070
11C							<i>New Volunteer!!!..... Welcome!!!</i>						<0.050	0.17	0.20	1.4	1.57	0.16
12E	<0.050	0.26	0.10	1.3	1.56	0.050	<0.050	0.16	0.20	0.70	0.86	0.080	Retired Volunteer					
12F	<0.050	0.15	<0.10	0.90	1.05	<0.050	<0.050	0.22	0.20	1.0	1.22	0.080	<0.050	0.17	0.10	2.1	2.27	0.15
16B	<0.050	0.21	<0.10	0.50	0.71	<0.050	<0.050	0.24	0.10	0.70	0.94	<0.050	<0.050	0.19	0.10	2.2	2.39	<0.050
18C	<0.050	0.25	<0.10	1.3	1.55	0.070	<0.050	0.18	<0.10	1.8	1.98	0.12						
19D	<0.050	0.25	<0.10	1.0	1.25	0.060	<0.050	0.18	0.20	1.0	1.18	0.070	<0.050	0.19	0.20	1.8	1.99	0.18
19E	<0.050	0.22	0.10	1.1	1.32	0.050	<0.050	0.18	0.10	0.80	0.98	0.12	<0.050	0.24	0.10	1.8	2.04	0.17
20C	<0.050	0.25	0.10	1.7	1.95	0.060	<0.050	0.20	0.10	0.80	1.00	0.080	<0.050	0.21	0.20	2.9	3.11	0.15
21B	<0.050	0.26	<0.10	1.5	1.76	<0.050							<0.050	0.18	0.10	1.6	1.78	0.10
21C	<0.050	0.25	0.10	0.70	0.95	0.050	<0.050	0.23	<0.10	0.8	1.03	0.080	<0.050	0.20	0.10	2.1	2.30	0.23
21D	<0.050	0.24	<0.10	0.80	1.04	<0.050	<0.050	0.19	0.20	1.3	1.49	0.090	<0.050	0.19	0.10	1.2	1.39	0.13
22B	<0.050	0.26	0.10	1.7	1.96	<0.050	<0.050	0.18	0.10	1.0	1.18	<0.050	<0.050	0.21	0.10	1.5	1.71	0.070
22C	<0.050	0.17	<0.10	0.80	0.97	<0.050	<0.050	0.24	0.10	0.90	1.14	0.060	<0.050	0.14	0.10	0.9	1.04	0.090
22D	<0.050	0.28	<0.10	2.1	2.38	<0.050	<0.050	0.20	0.20	0.70	0.90	<0.050	<0.050	0.19	0.10	1.8	1.99	0.060
22F	<0.050	0.21	<0.10	0.90	1.11	<0.050	<0.050	0.16	<0.10	0.90	1.06	<0.050	<0.050	0.19	0.10	1.7	1.89	0.080
24C	<0.050	0.29	<0.10	0.70	0.99	<0.050	<0.050	0.19	<0.10	0.70	0.89	<0.050						
25A							<i>New Volunteer!!!..... Welcome!!!</i>						<0.050	0.21	0.10	0.9	1.11	0.060
26A							<0.050	0.19	<0.10	0.70	0.89	0.060						
26C	<0.050	0.26	<0.10	2.0	2.26	<0.050	<0.050	0.24	<0.10	0.70	0.94	<0.050	<0.050	0.20	<0.10	1.3	1.50	<0.050
26D	<0.050	0.24	0.10	1.4	1.64	0.060							<0.050	0.23	0.10	3.1	3.33	0.050
28C							<0.050	0.19	<0.10	0.50	0.69	<0.050						
28D	<0.050	0.24	<0.10	1.6	1.84	<0.050	<0.050	0.20	<0.10	0.50	0.70	<0.050	<0.050	0.16	0.40	1.7	1.86	<0.050
34A	<0.050	0.24	0.10	1.8	2.04	<0.050												
35A	<0.050	0.22	<0.10	0.60	0.82	<0.050	<0.050	0.16	<0.10	0.40	0.56	<0.050						
39A							<0.050	0.22	<0.10	0.40	0.62	<0.050	<0.050	0.16	0.10	1.3	1.46	<0.050u
41A	<0.050	0.21	<0.10	0.80	1.01	<0.050	<0.050	0.21	<0.10	0.70	0.91	<0.050	<0.050	0.19	0.10	1.9	2.09	<0.050u
42A							<i>New Volunteer!!!..... Welcome!!!</i>						<0.050	0.21	0.10	0.7	0.91	<0.050u
43A	<0.050	0.11	<0.10	0.70	0.81	<0.050	<0.050	0.22	<0.10	1.1	1.32	0.12	<0.050	0.19	0.10	1.4	1.59	<0.050
48A	<0.050	0.21	<0.10	0.40	0.61	<0.050	<0.050	0.20	<0.10	0.50	0.70	<0.050	<0.050	0.20	<0.10	1.0	1.20	<0.050u
49A	<0.050	0.25	<0.10	0.50	0.75	<0.050	<0.050	0.19	<0.10	0.70	0.89	<0.050	<0.050	0.21	0.20	0.60	0.81	<0.050
52B	<0.050	0.24	<0.10	0.80	1.04	<0.050	<0.050	0.19	<0.10	0.50	0.69	<0.050	<0.050	0.19	0.10	1.7	1.89	<0.050
58E							<0.050	0.17	0.40	1.0	1.17	<0.050	<0.050	0.20	0.10	2.3	2.50	<0.050
58F							<i>New Volunteer!!!..... Welcome!!!</i>						<0.050	0.24	0.10	2.5	2.74	0.070
60A	<0.050	0.24	0.10	1.3	1.54	<0.050	<0.050	0.20	0.20	0.90	1.10	0.050	<0.050	0.23	0.10	2.0	2.23	0.070
62C	<0.050	0.21	<0.10	1.1	1.31	<0.050	<0.050	0.18	<0.10	0.70	0.88	<0.050	<0.050	0.22	<0.10	1.2	1.42	<0.050
64B	<0.050	0.22	0.10	1.2	1.42	<0.050	<0.050	0.16	<0.10	0.70	0.86	0.060	<0.050	0.22	0.30	0.40	0.62	0.070
64C							<i>New Volunteer!!!..... Welcome!!!</i>						<0.050	0.27	0.30	3.5	3.77	0.10
64D							<i>New Volunteer!!!..... Welcome!!!</i>						<0.050	0.16	0.10	0.90	1.06	0.060
66A	<0.050	0.23	<0.10	0.90	1.13	<0.050	<0.050	0.18	<0.10	0.90	1.08	<0.050	<0.050	0.20	<0.10	1.9	2.10	<0.050
66C	<0.050	0.28	<0.10	1.4	1.68	<0.050	<0.050	0.23	<0.10	0.90	1.13	<0.050	<0.050	0.19	<0.10	1.8	1.99	<0.050
67A	<0.050	0.25	<0.10	0.90	1.15	<0.050							<0.050	0.21	0.10	1.4	1.61	0.073
67C	<0.050	0.17	<0.10	0.60	0.77	<0.050	<0.050	0.20	<0.10	0.70	0.90	<0.050	<0.050	0.21	0.10	0.60	0.81	0.060
69A	<0.050	0.25	<0.10	1.2	1.45	0.050	<0.050	0.20	0.10	0.80	1.00	<0.050	<0.050	0.24	0.10	1.1	1.34	<0.050
69B							<0.050	0.18	<0.10	0.70	0.88	0.050						
70C	<0.050	0.22	<0.10	1.1	1.32	<0.050	<0.050	0.20	<0.10	0.70	0.90	<0.050	<0.050	0.22	<0.10	1.3	1.52	<0.050
72A	<0.050	0.21	<0.10	1.0	1.21	<0.050							<0.050	0.21	<0.10	1.3	1.51	<0.050
74B	<0.050	0.19	<0.10	0.9	1.09	<0.050	<0.050	0.18	<0.10	0.70	0.88	<0.050	<0.050	0.21	<0.10	1.2	1.41	<0.050
85C	<0.050	0.23	<0.10	0.50	0.73	<0.050	<0.050	0.20	<0.10	0.40	0.60	<0.050	<0.050	0.22	<0.10	1.1	1.32	0.070
88B	<0.050	0.19	<0.10	0.50	0.69	<0.050	<0.050	0.19	<0.10	0.50	0.69	<0.050	<0.050	0.19	<0.10	0.60	0.79	<0.050
90A	<0.050	0.18	<0.10	0.90	1.08	<0.050	<0.050	0.18	<0.10	0.60	0.78	<0.050	<0.050	0.19	<0.10	1.3	1.49	<0.050
WQ	1.0	1.0	~	~	2.0	0.46	1.0	1.0	~	~	2.0	0.46	1.0	1.0	~	~	2.0	0.46

Laboratory Analysis	FL Storm Water Quality Standard
NO2 = Nitrites	< 1.0 mg/L
NO3 = Nitrates	< 1.0 mg/L
NH3 = Ammonia	= No limit set
TKN = Total Kjeldahl Nitrogen	= No limit set
TN = Total Nitrogen	< 2.0 mg/L
T-PO4 = Total Phosphorus	< 0.46 mg/L

WQ = Florida State Storm Water Quality Standard
 Cape Coral's freshwater canal system is our secondary line of stormwater treatment; therefore, your samples are compared to the Florida State Storm Water Quality Standards.

- = No Sample Supplied.
- = No Water Quality Standard set for this limit.

All Units: mg/L = milligrams/liter

Events

July

- 4th Happy 4th of July!
- 5th Canalwatch & Secchi Dip-In!
- 19th FYN Intro (FM) 9am- 12pm
- 19th CHNEP CAC Meeting
- 29th Native Plant Sale (CC) 9am-2pm
- Rain Barrel Workshop (CC)
9:30 -11:30am

August

- 2nd Canalwatch!
- 12th FYN Intro (FM)
9am-12pm

We look forward to
seeing you there!

ERD Staff.....

Connie, Kraig, Faith, & Harry

September

- 4th Happy Labor Day!
- 6th Canalwatch!
- 12th Friends of Wildlife 7pm
- 16th FYN Intro (FM) 9am-12pm
- 20th CHNEP CAC Meeting
- 23rd FYN University (CC)
9am-3pm (Yard Tours!)
- 30th National Estuaries Day!!!

More Information Available At:

FYN: <http://lee.ifas.ufl.edu> For (CC = Cape Coral) Call Rotary Park at: 549-4606

For (FM = Fort Myers) Call Tom Becker at: 461-7515

CHNEP: <http://www.chnep.org>

Cape Coral: <http://www.ccfriendsofwildlife.org>

City of Cape Coral
Public Works Department
Environmental Resources Division
P.O. Box 150027
Cape Coral, FL 33915-0027