



APPLICATION FOR POLLUTION RECOVERY FUND ASSISTANCE

DATE OF APPLICATION: 5/1/2007

A. BASIC ASSISTANCE

1. Applicant: The legal name of the applicant/organization, the organizational unit and the complete mailing address of the applicant.

Name: Keep Hillsborough County Beautiful
Organization: Non-profit: 501 (C) 3
Address: 10014 N Dale Mabry Hwy
Tampa, FL 33618

2. Project Manager Information: Give name and title of the representative of the applicant who will be the Environmental Protection Commission's principle contact concerning this application

Name: Josh McCart
Title: Program Coordinator
Address: Same as above

Phone Number: (813) 960-5121

Email: Khcb2@yahoo.com

Project Title Keep Our Waters Beautiful

Project Time Start: Upon grant receipt End: One year from date of grant receipt

Total Cost of Project \$ 353,646.35

Total EPC share requested \$ 129,424.35

3. Assistance Type: **New or Renewal** (check one)

New - Award of funds for initial request within the project period.

Renewal - Award of additional funds for a project beyond the current project period.

4. Project Location: The specific location(s) of the project. (Attach Site Map)

Please see supplement information and attached map.

5. Is the Project for:

Restoration of a polluted area

Mitigation of the effects of pollution

Pollution Control Activity to prevent or minimize pollution

Education (Environmental Stewardship and/or Pollution Prevention)

6. Is the Project directed toward restoring an identified "polluted area" (a geographic area destroyed or altered by dredging or filling or contaminated by an emission or discharge), or toward terminating an identified pollution source? Identify and explain:

This project is designed to terminate identified point source pollution.

Please see attached supplement information.

7. Is the harm or potential harm to health, safety or welfare of the public or wildlife actual or potential? Does the project seek to alleviate actual or potential harm and what is the severity of the harm and the causal relationship between the "pollution" and the harm?

Identify and explain:

Please see attached supplemental information.

8. How long has the pollution existed or how long before any harm will be evident?

Please see attached supplemental information.

9. Identify and describe how the project proposes to alleviate the pollution (addressing technical, practical, and cost effectiveness issues):

Please see attached supplemental information.

10. Is the polluted area one which has previously been subject to commission enforcement and, if so, when and what was the result?

Please see attached supplemental information.

11. If no actual pollution exists and no prior commission enforcement action has occurred, does the project otherwise enhance pollution control activities within the County?

Please see attached supplemental information.

12. Can this Project be divided into separate and independent parts, and if so,

a) What are they? Pollution prevention, hands-on pollution remediation and
pollution education.

b) How would the costs be allocated between them? _____

Funding is requested for only one aspect of total project.

c) Would the applicant be willing to accept only partial funding? _____

Funding is requested for only one aspect of total project

13. Are other funding sources committed to the project? Yes

If so, how much and for what? _____

Please see attached supplemental information.

14. Why do you believe that this Project is of sufficient importance to justify the expenditure of Pollution Recovery Funds?

Please see attached supplemental information.

15. Will the project enhance the value of private property, and if so, whose?

Any pollution recovery has the potential to enhance waterfront properties, however the project focus is on benefit to the public.

Supplemental Answers to pollution Recovery Fund Application for Keep Hillsborough County Beautiful (KHCB)

A. BASIC ASSISTANCE

1-3. Completed on the application.

4. Specific site location will be on Bray Rd coordinates (28 °59'08.30" N, 82 °33'24.10" W). Please also see attached map for general site location.

5. Completed on the application

6. The Keep Our Waters Beautiful is directed toward both restoring an identified "polluted area" (Lower Sweetwater Creek) and toward terminating an identified pollution source (stormwater drainage ditch). Many water areas in Hillsborough County have become clogged with trash and other debris. Most of this debris comes from sources other than boats; nearly 60% of marine debris comes from land sources. Through this project we intend to install a large pollution/litter collection unit (baffle box style) in a strategic location along this drainage ditch to help prevent litter and pollution from spreading through water areas. The unit will collect floatable, sediments, and organic chemicals and other matter, thus helping to terminate a point source pollution location. Additionally, our Florida Coastal Cleanup program, a hands-on trash pick up, will be linked with the Keep Our Waters Beautiful Project to remove debris already in water areas before installation of our filtration device. By including the site of the new collection unit in our coastal clean-up this year, we will also be restoring a polluted area. We also plan to have other organizations, civic groups, students, and volunteers help on a year round basis to remove litter already in this section of water.

7. There are a variety of "actual harms" to the health, safety and welfare of the general public as well as wildlife associated with marine debris and degraded water quality in Hillsborough County water areas. Our project seeks to alleviate such actual harms, first by removing marine debris from the project site, then by installing and maintaining a large filtration unit to prevent future pollution build-up.

Pollution of Hillsborough County waters can prevent use and enjoyment of our natural resources, cause illness, harm habitat and wildlife, and more.

Historically, Hillsborough County has been a water-based community. People make homes here

to enjoy a lifestyle that includes swimming, snorkeling/diving, boating, fishing, and wildlife watching. Clearly, pollution is changing this.

In 2005 and 2006 there were 12 beach advisories warning people not to swim in our waters due to the presence of unacceptable levels of certain bacteria often used as indicators for the presence of sewage contamination of a waterway and the possible presence of other pathogenic organisms. (Florida Healthy Beaches Program Report, The Florida Department of Health: [http://esetappsdoh.doh.state.fl.us/irm00beachwater/default .aspx](http://esetappsdoh.doh.state.fl.us/irm00beachwater/default.aspx)).

Each year, KHCB helps to organize Hillsborough County's participation in the Florida Coastal Cleanup. Incident to this, KHCB collects important information on marine debris that can help track successes or failures in management, enforcement and community stewardship. Last year, KHCB's clean-up addressed 22 sites in Hillsborough County, cleaned 293 miles of coastal area, and collected about 63,766 pounds of trash. (Site Captains' Report, KHCB, 2006). We also noted a variety of dead wildlife, including animals entangled in fishing line and plastic. Clearly, our water areas require more attention.

Today, many waters of Hillsborough County's are not as clean as they once were, as evidenced by the above statistics. Swimming in these areas can be dangerous. Plants and wildlife are being negatively impacted and becoming more notably absent.

Reduction in water clarity caused by an increase in macronutrient and sediment discharge at similar locations as our proposed baffle box site, has had a vast impact on river, bay, and gulf marine habitats. Sea grass reduction in the Tampa Bay estuary has been contributed to the pea green water, total suspended solids, and other factors. The Tampa Bay estuary has seen a major reduction in sea grass, mostly caused by the decrease in water clarity that is caused by runoff which carries macronutrients and suspended solids.

As the County continues to grow and more areas are paved and developed, we will continue to see an increase in the runoff rate and harmful pollutants and litter that it carries with it. Eutrophication zones, a biological process where dissolved nutrients cause oxygen-depleting bacteria and plants to proliferate creating a hypoxic, or oxygen poor, environment that kills plants and marine life will also grow as more and more nutrients are washed into to our rivers and bay. Almost every populated estuary has a dead zone due to eutrophication conditions and our Tampa Bay estuary is no exception.

The Keep Our Waters Beautiful project is designed to alleviate actual current and potential future harm through first promoting immediate cleanup of the selected water areas through a hands-on cleanup effort, then funding and managing the maintenance of a large filtration device to prevent future damages.

8. Unfortunately, water and coastal area pollution has been present for many years in Hillsborough County and seemingly increasing over time. Harm is already evident and escalating: People are concerned about swimming, snorkeling/diving, and even boating in some places. Wildlife, once prevalent, is dwindling. Many water areas smell of decay, sewage and rotting trash. This is not what people want for Hillsborough County waters.

9. KHCB was formed in 1992 by a group of concerned residents who saw that litter was becoming a problem in their community through lack of community pride, limited knowledge of disposal options and urban growth. Now, 15 years later, KHCB is well known for pollution cleanup here in Hillsborough County. We intend to continue an aggressive pollution cleanup and

prevention campaign, with Keep Our Water Beautiful being a new addition under our litter control program, our primary focus. Our litter control program has been very successful for many years and is comprised of various distinct projects:

Adopt-A-Road: Every year, thousands of volunteers join forces to clean the roadways in Hillsborough County. Churches, businesses, civic groups and students are among those who take to the streets on a regular basis to help keep our county clean.

Adopt-A-Shore: Every year, millions of visitors and residents take advantage of Florida's beaches and shorelines. Once pristine and barely touched by human hands, our shorelines offered a bounty of wildlife that took advantage of this treasure. Now, population growth, amplified movement of people to Florida and the ever-increasing interest in living nearby water have wreaked havoc on our shorelines. Erosion, pollution and litter all have taken their toll. The wildlife that once enjoyed clean clear waters and a healthy habitat now often finds themselves entangled in or ingesting marine debris. The Adopt-A-Shore program helps to remedy the marine debris problem in identified local areas. Groups and individuals "adopt" approximately one mile of shoreline and make a commitment to clean it three times a year for two years. This provides an invaluable service to conserving our state's natural environment and to building environmental citizenship amongst Floridians.

Great American Cleanup: High school groups, individuals and families armed with gloves and trash bags were among the volunteers who dedicated their Saturday morning to give Hillsborough County a spring-cleaning. Last year, over 2,500 volunteers collected more than 122,000 pounds of trash, including bottles, cans and cigarette butts. Some of the unusual items found during the cleanup included a refrigerator, washing machine, bathtub, an animal watering trough, carpet, car parts and a freezer with spoiled meat. Following the event, volunteers were rewarded with T-shirts, restaurant coupons and a pizza party at Lowry Park Bandshell. The cleanup is part of a national event through Keep America Beautiful from March through May where volunteers come together to spruce up their communities by removing litter. Keep Hillsborough County Beautiful coordinates the event on a local level.

Florida Coastal Cleanup: More than 3,200 volunteers picked up litter and debris along shorelines, rivers and lakes during the 19th annual Florida Coastal Cleanup on Sept, 16. Volunteers cleaned 22 sites and 155 miles throughout Hillsborough County and collected more than 63,000 pounds of trash. Among the more unusual items volunteers found were a recliner, ping-pong table, vacuum cleaner, power ranger, punching bag, blender, toilet, trampoline, television and a kitten. Volunteers also recovered 17.5 pounds of monofilament line. Lutz boasted the turnout with 492 volunteers who collected 7,408 pounds of trash. Alafia River State Park had the highest volume with 7,604 pounds of trash collected by 142 volunteers. High school students, Boy and Girl Scout Troops, families, divers and more were among the volunteers at the cleanup. Many students took advantage of the volunteer opportunity to earn some community service hours or extra credit. In addition to collecting trash, volunteers marked their finds on data cards, which are used to track the types of debris that are found and their sources to better educate the public. Keep Hillsborough County Beautiful coordinates the cleanup locally and partners with the Ocean Conservancy, Hillsborough County and the City of Tampa for donated items and trash pick-up.

In regularly cleaning Hillsborough County water areas, KHCB noted that better pollution methods could be instituted to reduce the need for continued significant pollution prevention is cost effective and simply rational. Because KHCB is already well versed with pollution remediation, this next step, helping to provide more long term pollution prevention measures, is a logical progression for us.

Means of project implementation include: 1) hands-on clean-up partnered with 2) working with local government and other experienced groups like Save Our Canals, to install and maintain a major filtration device on Bray Rd on the edge of Holly Park.

We are working with experienced contractors (those used for the curb inlet basket filtration devices in Bay Crest) and have developed an implementation plan for this project which is presented in short below:

1. Met with Hillsborough County Stormwater Division to discuss the most effective location
2. Determine flow rates for installation area.
3. Have contractor assess the site for installation and maintenance feasibility.
4. Complete any necessary paperwork for required permits (i.e. Right of Way, Wetland Mitigation)
5. Schedule clean-up of site as a part of this year's Florida Coastal Cleanup: photograph area
6. Schedule installation of filtration device.
7. After several months, collect debris from filtration device and categorize, weigh and examine contents. Photograph area.
8. Repeat #7
9. Repeat #7
10. Generate pollutant collection report and site assessment report. Make findings public.

By combining various methods of filtration throughout the county in a well-planned format (baffle boxes, curb inlet baskets, centrifugal devices, clean-ups, etc) through a cooperative effort among County entities, organizations and others in the community, we ensure effective use of funds and time, resulting in cleaner water areas.

10. The areas targeted for pollution recovery and prevention have been the subject of a number of enforcement actions. Neighbors have called in violations for dumping trash, oil, chemicals and large debris (kitchen cabinets, bicycles, building materials and other).

11. Actual pollution does exist, though only some enforcement has been available, due to insufficient funds and the small number of enforcement personnel committed to patrolling water areas. One notable difference between this year and last is an increase in neighbor awareness regarding dumping in water areas. KHCB and other local community partners like Save Our Canals have been cooperatively encouraging people to participate in enforcement. Several members reported violations to EPC, the County Sheriff and others. Some people even snapped photos and made videos as evidence. People are beginning to understand we all must participate in stewardship of our water resources.

The Keep Our Waters Beautiful project does enhance pollution control activities within the County. In fact, the project works directly with the County Stormwater Division. Devices similar to the one we propose to install and maintain are already being used successfully elsewhere in the County, in Gibsonton and Temple Terrace (though the ones in Temple Terrace are owned by the City not the County). Our hope is to develop a community partnership among County entities, organizations and the people to improve our water areas.

12. Answers are completed on the application form.

13. There are other funds already committed to the Keep Our Waters Clean project: please see

enclosed clean up budget.

14. There are a number of funding sources available to contribute to pollution recovery and prevention projects. We actively pursue funding from: Hillsborough County Solid Waste Department (main funding source), membership fees, Florida Department of Transportation, various corporate and community sponsors including: Lazy Days RV Supercenter, AT&T, Tampa Bay Parrotheads, TECO, Vulcan materials and others.

15. Hillsborough County is a major part of the Tampa Bay area, known for swimming, fishing, boating, wildlife watching and other water-based activities. Locals regularly talk about having, “a life on or by the Bay”. This has become a standard motto for living here. Unfortunately, if pollution continues as it is now without remediation, days of Bay life might disappear. KHCB is already helping to rebuild community pride and inspire a commitment to environmental stewardship, health and safety in Hillsborough County through coordinated cleanup and outreach efforts. This work would continue by now also initiating a program to prevent future pollution. KHCB’s work will help rehabilitate our waterways and maintain them for the use and enjoyment of all.

B. ATTACHMENTS

1. Please provide a detailed map of the project site, if applicable.

Please see the attached map.

2. Principal Investigator and Key Personnel:

Principle Investigator: Kevin kremkau
Gahagan & Bryant Associates Inc.
3802 West Bay to Bay Boulevard
Tampa, FL 33629-6826
(813) 831-4408

Kevin Kremkau is a Project Engineer with Gahagan & Bryant Associates (GBA), a firm that provides an array of services, including hydrographic surveying, coastal engineering, channel design, dredged material handling and coastal and environmental restoration. GBA is the largest company in the U.S. specializing in hydrographic surveys, dredging engineering and subsurface investigations. Mr. Kremkau has ten years experience in hydrographic surveying and coastal engineering and is involved in all aspects of shore protection projects and navigation projects including surveying, permitting, design, construction monitoring, and project management. Current examples of projects include the Town of Jupiter Island Beach Rehabilitation Project, and the St. Lucie Inlet Federal navigation Project. In 2002-2003, he oversaw a 6 mile restoration project on Jupiter Island beaches to rehabilitate critically eroded shoreline. He focuses on environmental monitoring to ensure only positive impacts and no water quality violations. He is currently preparing plans and specifications for a project to repair damage caused by hurricanes Francis and Jeanne. As an agent of Martin County, the local sponsor of the St. Lucie Inlet Federal navigation Project, he is involved in the design and monitoring of periodic inlet maintenance events. Mr. Kremkau works with County, State and Federal agencies to help ensure their projects are developed in an environmentally responsible manner. Other clients that he has performed work for at

GBA include numerous U.S. Army Corps of Engineers districts, the U.S. Navy, and various municipalities and private organizations. Kevin Kremkau graduated from the Florida Institute of Technology with a B.S. in Ocean Engineering in 1996, and resides in Hillsborough County.

3. Project Narrative:

KHCB's primary mission is to create an awareness of litter prevention, recycling and beautification through education programs, community presentations and clean-ups countywide. We are expanding this mission to include long term pollution prevention to reduce the need for repetitive pollution recovery.

The proposed project is the clean up of a significant marine debris area and the installation of a large filtration device to prevent the future accumulation in and spread of pollutants from that area.

a. Objectives:

1. Through trash pick-up and removal of other blockage materials, as permitted and required, restore the Lower Sweetwater Creek area to allow proper drainage and flow of water from and to Tampa Bay for the benefit of the community and wildlife.
2. Fund installation, management and maintenance of a large filtration device in an area of high debris and chemical contribution so that new trash, pollutants, sediment and other marine debris will gather in specific locations for ease of collection (by professional contracted personnel) and will prevent passage back into the canals and other water areas that have been cleared through cleanups.

b. Results/benefits expected:

The hope is to reduce and restore Lower Sweetwater Creek area from pollutants/litter and re-establish natural conditions as soon as possible, for the benefit of the community and wildlife. Please see attached results from Bay Crest (Locally) and several other Florida cities which have used Suntree Technologies.

Specifically we hope to achieve:

1. cleanup of marine debris, sediment, pollutants and other materials

2. prevention of future pollutants
3. community awareness and action on water pollution prevention
4. collaborative efforts with government and community to clean and maintain water areas over time
5. Indication of effective future long term pollution reduction.

c. General project information: criteria to evaluate work:

We will maintain specific records on:

1. The amount of materials collected in debris cleanups
2. The amount of materials collected in the filtration device over the one year project
3. Long term project area appearance

These records will help indicate our success in reducing debris and other pollutant flow into water areas and gauge whether such devices should be a part of a long term management plan for Hillsborough County water areas.

Further, as the hope is for Hillsborough County water areas to be restored to natural conditions and pollution to be minimized as soon as possible, the criteria used to determine whether this goal has been met, lies in the condition of those areas. We anticipate seeing:

1. Cleaner water areas, free from marine debris
2. Clearer waters, with less overgrowth.
3. Odor reduction
4. Return of fish and other wildlife
5. Increased local usage of water areas for fishing, boating and other water activities
6. Community pride and stewardship
7. Decrease in sediment deposition and dredging.

While we recognize that many of the above changes are long-term goals and won't all be readily apparent within a one year time frame, substantial improvement will be deemed progress towards ultimate goals.

4. Scope of work:

1. Based on information attain from Hillsborough County Stormwater Division our primary location for this project will be at Bray Rd, Tampa, located on the edge of Holly Park. Please see map.
2. Contract experienced professionals
3. Have contractor assess the site for installation and maintenance feasibility
4. Schedule cleanup of site as a part of this year's Florida Coastal Cleanup and photograph area for record keeping and comparison with future status
5. Hold cleanup of project site. Result- cleaner water areas, free from marine debris. Immediate remediation of one pollutant source
6. Coordinate with various Hillsborough County entities to obtain necessary permits for proposed work. Result- obtain necessary permits to complete installation and maintenance
7. Install and maintain debris filtration devices in the pilot project areas. Result- reduction of pollutants in Sweetwater Creek and other Hillsborough County water areas.
8. After several months, collect debris from filtration device and categorize, weigh and examine contents. Photograph area. Result- Obtain preliminary information and gauge function and capacity of device for area
9. Repeat # 8
10. Repeat # 8
11. Generate pollutant collection report and site assessment report. Result- Obtain final information on success of project and gauge function and capacity of device for area
12. Determine success or failure of project based on pollutant collection report and site assessment report. Make findings public.

5. Budget Information:

BUDGET CATEGORIES

	PRF Funds	Federal	Applicant	State	Other
a. Personnel	0				
1.					
2.					
b. Administrative	1,274.35				
c. Materials	43,500				
d. Contractual	9,450				
e. Construction	57,000				
f. Other	18,200				
g. Total Direct Charges (Sum of a. to f.)	129,424.35				

C. SUBMITTAL OF APPLICATION

Please submit a total of five (5) applications [Four (4) paper + one (1) in electronic format on a CD] to:

Environmental Protection Commission of Hillsborough County
 Environmental Resources Management Division
 Attn: Tom Ash / Pollution Recovery Fund
 3629 Queen Palm Dr., Tampa, Florida 33619

***Completed applications must be received at the above address by
 5:00 p.m. (EDT), May 1, 2007.***

Late applications and email applications will not be considered.

www.epchc.org

E-Mail: epcinfo@epchc.org

AN AFFIRMATIVE ACTION – EQUAL OPPORTUNITY EMPLOYER

POLLUTION RECOVERY FUND APPLICATION PROCESS
Terms and Conditions

The following terms and conditions govern the use of the Pollution Recovery Fund and will be considered during the application review process and applied to any subsequent award of grant funding:

1. This application is for funds granted through the Environmental Protection Commission's Pollution Recovery Fund as regulated by the EPC Act and Chapter 1-9, Rules of the Environmental Protection Commission. Reimbursement for work performed is contingent upon submittal of valid, original invoices to the EPC Project Manager within the timeframe specified in a fully executed grant agreement by and between the applicant and the Environmental Protection Commission of Hillsborough County. No work associated with the approved project is authorized until such time as the applicant has received a copy of a fully executed grant agreement.
2. Funding for indirect costs (e.g. – overhead) in excess of five percent (5%) of the total direct costs of the project will not be considered.
3. Funding requests for capital equipment will only be considered if such equipment relates directly to the project proposed and is a vital part of the project's success. Any such requests will be considered on a case-by-case basis and any equipment purchased using Pollution Recovery Funds may be subject to ownership by the Environmental Protection Commission under the terms of the executed grant agreement.
4. Travel is not reimbursable by the Pollution Recovery Fund unless explicitly allowed under the terms of the executed grant agreement.
5. Repairs and/or routine maintenance of equipment, not purchased by Pollution Recovery Funds and, therefore, not subject to EPC ownership are not reimbursable by the fund.
6. EPC Board approval and subsequent execution of grant agreements may take up to one year from the date of application. Applicants should plan accordingly to allow for this timeframe in their project planning. Every effort will be made to expedite seasonal or otherwise time-sensitive projects however, at no time will the process take less than six (6) months from the application deadline.



I have read and accept the terms and conditions presented here and choose to submit my application for Pollution Recovery Funds in accordance with these terms and conditions.

Applicant's Signature:

Date:

POLLUTION RECOVERY FUND APPLICATION PROCESS

Instructions

The Hillsborough County Environmental Protection Act (Chapter 84-446, Laws of Florida) and Chapter 1-9, Rules of the EPC establish a pollution recovery fund which is to be supervised and used by the Commission to restore polluted areas of the county, as defined by the Commission, to the condition they were in before pollution occurred, to mitigate the effects of pollution, or to otherwise enhance pollution control activities within Hillsborough County. The application and review process is generally as follows:

Application Forms must be submitted on or before the May 1, 2007, 5:00 p.m. deadline. *Late applications and email applications will not be considered.*

- There will be a newspaper advertisement, and possibly press releases, specifying the deadline for submitting applications.
- Application forms and instructions can be obtained from Tom Ash, phone 813-627-2600 Ext. 1011 or from our website at: www.epchc.org
- Except under special circumstances, applications submitted earlier than the deadline will be held until the next processing period, and then processed with the others.

Following the deadline, applications will be distributed to the EPC General Counsel's office, EPC Staff, and Citizen's Environmental Advisory Committee (CEAC).

- Both the applicant and/or reviewer may request a meeting to discuss details of the project at any time during the review process.
- Applicants will be invited to attend a regularly scheduled CEAC public meeting to make a brief (15 minute) presentation in support of their project and answer any questions that may arise. EPC technical staff will be in attendance.
- EPC staff will meet with the Executive Director to discuss all applications in the group and to prioritize and determine recommendations for CEAC and the EPC's Commissioners to consider.

A summary of the EPC Staff recommendations will be presented to CEAC.

- Staff will present recommendations to CEAC, then CEAC will discuss the applications and its recommendations to the EPC Board.

Staff and CEAC recommendations will be presented to the EPC Board for final decision.

- The EPC Board meeting will likely be the first or second EPC Board meeting following the CEAC meeting so that the information can be properly placed on the agenda (typically the EPC Board meeting will be one of those in the September – November time frame) .
- Applicants may choose to attend the EPC Board meeting and may request to speak.

If the project is approved, the applicant must sign an agreement before monies will be available.

- EPC Legal will draft the agreement with standard terms and conditions. The EPC's Project Manager will then provide it to the applicant for review and execution.
- EPC Legal will arrange for execution of the agreement by the EPC Chair after it is executed by the applicant, and will then forward final copies to the Applicant's Project Manager and the EPC Project Manager.
- The EPC Project Manager will be responsible for ensuring the applicant's compliance with the agreement.



Rockpointe Dr

Stick Cir

W Chelsea St

Exter Way

Baffle box site

Dimarco Rd

Canal Blvd

Oakdell Dr

Winchester Dr

Olympia Ave

Sweetwater Dr

Devonshire Rd

Golfwood Blvd

USGS
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Phone (321) 637-7552

Fax (321) 637-7554

For
Save Our Canals

Bay Crest - Tampa, FL
Reports 1 & 2

Report Service Dates:
Aug. 24th & Dec. 21st 2006

Report Release Date:
December 22, 2006

Since 1993

Infrastructure
Stormwater Filtration Systems

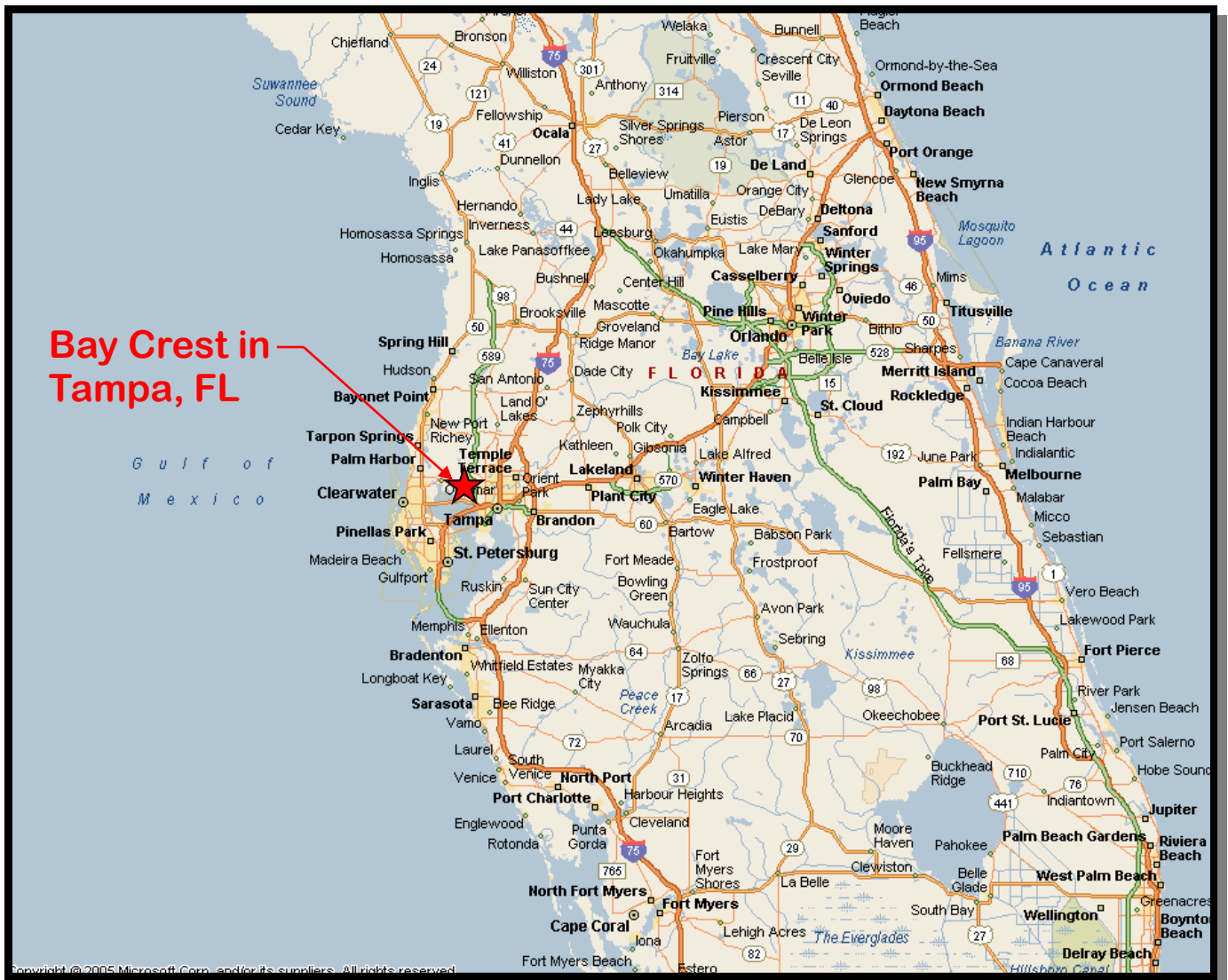


798 Clearlake RD, Cocoa, FL 32922, Ph: 321-637-7552 FAX: 321-637-7554, www.suntreetech.com

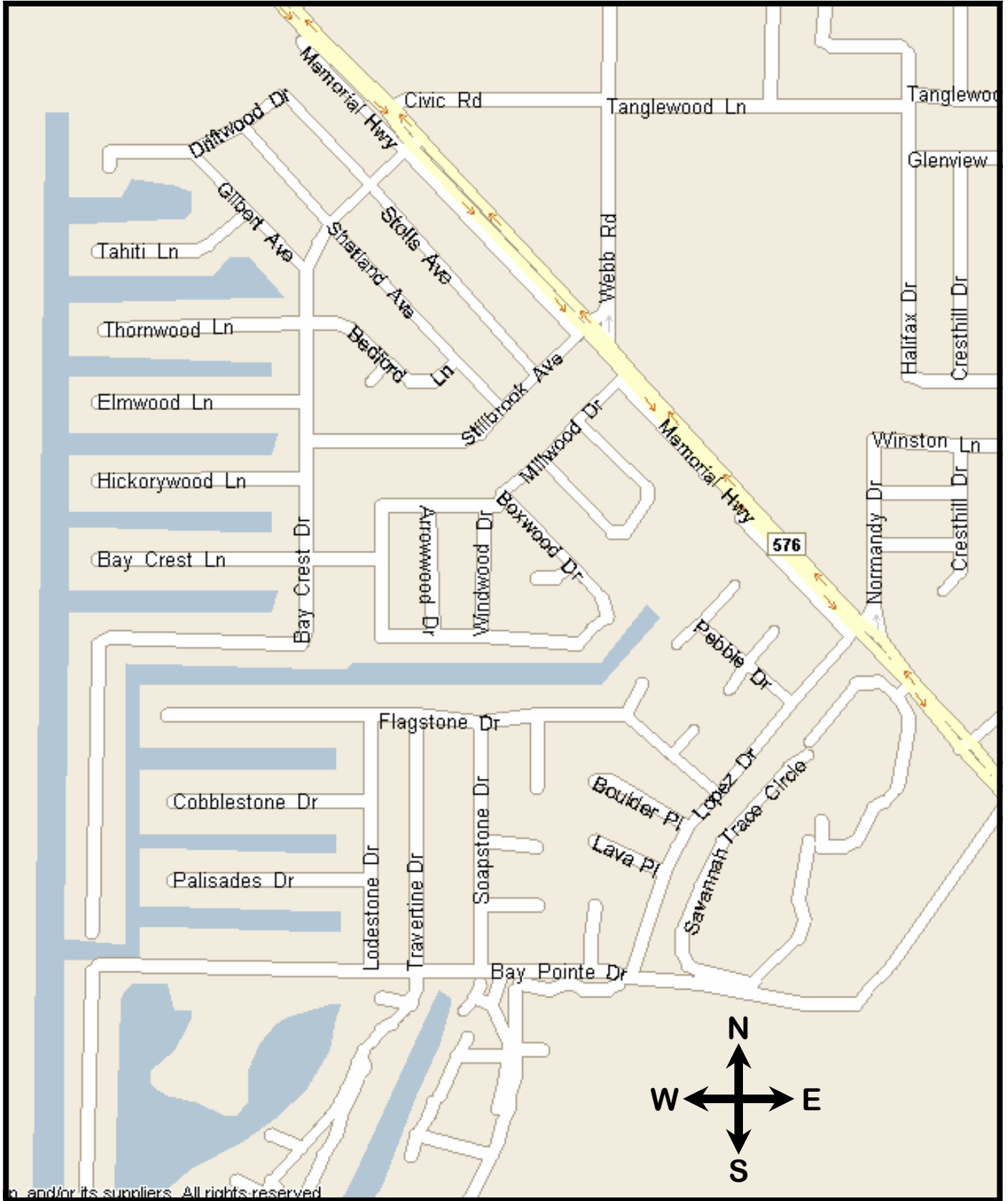
Bay Crest - Tampa, FL Reports 1 & 2

Service Dates: Aug. 24, 2006 & Dec. 21, 2006
Report Release Date: December 22, 2006

In 2006 *Suntree Technologies* contracted with *Save Our Canals* to install 39 stormwater inlet filters in the *Bay Crest* area in Tampa, FL. The purpose of the filtration units is to prevent pollutants conveyed by stormwater runoff from entering canals that drain into Tampa Bay.



Map of Bay Crest Area



and/or its suppliers. All rights reserved.

This report centers around the servicing of all 39 stormwater filtration devices, and the objectives for the planned service for these units was as follows:

- ◆ Empty the debris collected in the filtration units.
- ◆ Measure the weight of the debris collected in each filtration unit.
- ◆ Make visual observations as to what kind of debris was collected in each unit.
- ◆ Estimate the weight percentage of the sediment, and fililage collected in each filtration unit.
- ◆ Replace Storm Boom
- ◆ Take photos of the inlets, filtration units, and debris.
- ◆ Document any irregularities.
- ◆ Analyze how the filter screens of each unit were performing for possible alterations.

The procedure for emptying the *Curb Inlet Baskets* was as follows:

- Remove the manhole cover
- Inspect the catchbasin and Curb Inlet Basket
- Remove the Curb Inlet Basket from the catchbasin
- Remove the skimmer tray assembly from inside the Curb Inlet Basket.
- Empty the debris in the Curb Inlet Basket into a plastic bag and clean the screens with a stiff bristle brush.
- Close and tag the plastic bag with a label that identifies the location of the inlet.
- Replace the Storm Boom with a new one.
- Place the Storm Boom and skimmer tray back into the Curb Inlet Basket.
- Place the Curb Inlet Basket in back into the catchbasin on the collection weir system.
- Close the manhole cover.
- Sweep any debris spilled during the service.
- Servicing the inlet is now complete.

The following table summarize the data collected from the servicing on Aug 24th and Dec. 21st.

Service Data Summary Table	
Total weight of collected debris Aug. 24th	2,688 pounds
Average weight of collected debris per unit Aug 24th	68.9 pounds
Total weight of collected debris Dec. 21st	2,594 pounds
Average weight of collected debris per unit Dec. 21st	66.5 pounds
Total weight of collected debris for both Aug. 24th and Dec. 21st servicing	5,282 pounds

The following photos taken during the servicing of Bay Crest are typical of all the inlets and the Curb Inlet Baskets in the area.

Typical catchbasin with throated inlet and manhole cover on top.



View inside catchbasin before the Curb Inlet Basket was removed.



The Curb Inlet Basket has been removed from catchbasin.



View inside catchbasin before the Curb Inlet Basket was removed.



The Curb Inlet Basket has been serviced and the manhole cover is ready to be replaced.



Data Table For Servicing Performed On August 24, 2006

Date:	24-Aug-06					Location:	Tampa, Baycrest
Inlet #	Sock Size	Leaves %	Soil %	% Full	Weight	Comments	
1	48	30	70	75	80	Roaches everywhere	
2	48	40	60	100	110	lots of trash	
3						Basket replaced. No cleaning required	
4	48	15	85	90	97	lots of worms	
5	48	50	50	50	40		
6	48	15	85	75	95	wood planks in drainage	
7	48	10	90	100	90		
8	48	40	60	75	85	grass growth	
9	48	5	95	100	200	3/4 full concrete, fixed and cleaned	
10	48	25	75	80	50		
11	48	10	90	85	125	large amount of cable wire inside, grass growing in sock	
12	40	50	50	50	10		
13	40	100	0	5	6		
14	48	25	75	10	10		
15	40	25	75	80	85	grass growth	
16	40	50	50	15	10	grass growth	
17	21	15	85	75	55		
18	48	25	75	80	75		
19	48	28	72	30	10		
20	48	50	50	75	110		
21	48	50	50	80	100		
22	48	0	100	25	15		
23	48	5	95	40	50		
24	48	10	90	25	40		
25	48	5	95	70	85		
26	15	50	50	50	20		
27	42	20	80	45	40	grass growth	
28	48	30	70	50	50		
29	21	10	90	15	12		
30	48	20	80	100	40		
31	48	40	60	100	60	trash, broom stick, trash lid	
32	48	50	50	100	168		
33	48	60	40	100	110	grass growth	
34	48	23	77	90	105	crabs	
35	48	10	90	95	115		
36	48	10	90	80	85		
37	48	10	90	80	100		
38	40	30	70	50	40		
39	48	20	80	90	110		
Total sock "	1691			Total weight	2688		

Data Table For Servicing Performed On December 21, 2006

Date:	23-Dec-06						Location:	Tampa, Baycrest
Inlet #	Sock Size	Leaves %	Soil %	% Full	Weight	Comments		
1	48	40	60	80	79.5			
2	48	60	40	90	81			
3	48	35	65	95	73			
4	48	25	75	65	77.5			
5	48	30	70	98	82.5			
6	48	15	85	35	40.5			
7	48	15	85	100	97	Lots of Trash		
8	48	35	60	70	88			
9	48	0	0	0	0	Damaged by concrete projectile; filter basket was repaired		
10	48	30	70	100	95.5			
11	48	25	75	95	88.5			
12	40	60	40	50	37			
13	40	95	65	50	38			
14	48	40	79	100	81.5			
15	40	35	80	85	74.5			
16	40	25	75	75	68			
17	21	20	80	80	36			
18	48	25	75	75	71.5			
19	48	35	65	75	55			
20	48	50	50	60	87			
21	48	50	50	100	92.5			
22	48	20	80	90	62.5			
23	48	15	85	90	78	Lots of Trash		
24	48	60	40	35	36			
25	48	30	70	65	96.5			
26	15	25	75	70	24.5			
27	42	30	70	100	38.5	grass growth		
28	48	30	70	85	70.5			
29	21	30	70	100	33.5			
30	48	30	70	90	94			
31	48	40	60	95	57.5	trash, broom stick, trash lid		
32	48	60	40	90	76			
33	48	35	65	95	83	Found dead rat		
34	48	40	60	90	68.5			
35	48	30	70	100	61			
36	48	40	60	100	77	Lots of Trash		
37	48	30	70	100	79			
38	40	65	35	60	26			
39	48	35	65	100	88			
Total sock "	1739			Total weight	2594			

All of the Suntree Curb Inlet Baskets were dry and not holding water. Although many of the filters were full to capacity, the flow by-pass was unobstructed in all the filters, and the catchbasins appear to be functioning as designed.

Conclusion:

The Curb Inlet Baskets are functioning as expected and are effectively filtering the stormwater in the Bay Crest area, and are able to capture and keep large quantities of debris between service intervals. Sediment, foliage, and litter are being captured and the hydrocarbon absorption booms have changed to dark in color which indicates that they are capturing contaminants as well.