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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

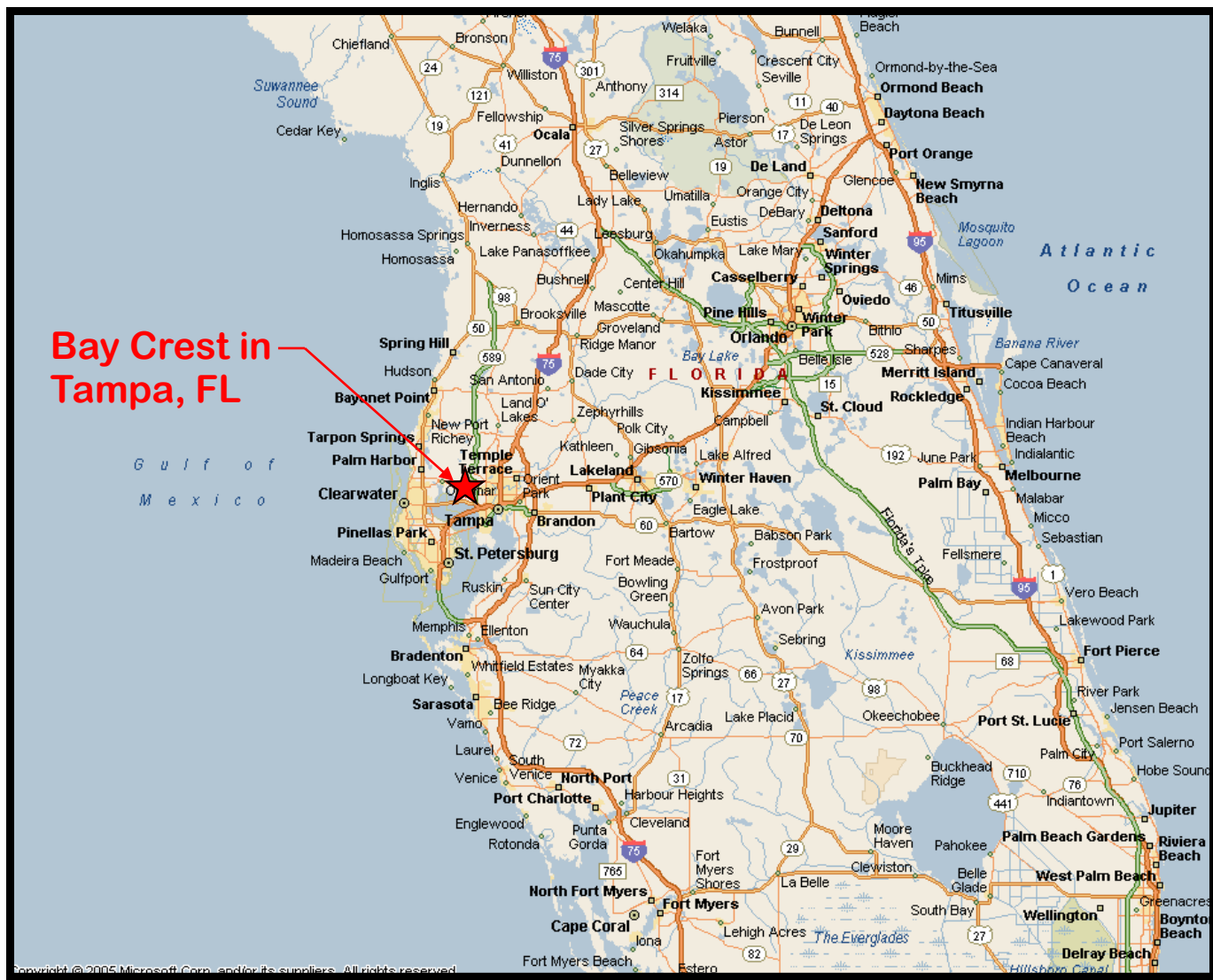


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Bay Crest - Tampa, FL Reports 1 & 2

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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.



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.