

Street Sweeping Program

The City sweeps all public streets, garages and parking lots within its jurisdiction. CRA parking lots are swept as well. Three different sweepers (#695, #696 and #697) are currently in use. Roadways without curb and gutter, and roadways not owned/maintained by subdivisions with privately owned streets, are not included in the program. The frequency of sweeping is daily.

The areas swept most frequently are the priority areas. Documentation of volume of street sweeping collection is kept in a log book by date and is summarized for reporting each year in the PW SW Monthly Report.

An estimate of the total phosphorus and total nitrogen collected by the street sweeping is performed based on the Florida Stormwater Association's determinations of street sweeping removal rates project. For this calculation, the land use of the area swept and the amount of material collected is used.

All street sweeping collection is properly disposed of in accordance with DEP's "Guidance For The Management Of Street Sweepings, Catch Basin Sediments and Stormwater System Sediments."

Schedules for the three sweepers are listed here.

Florida Stormwater Association Street Sweeping Nutrient Removal Rates

Based on the May 31, 2011 Final Report "Quantifying Nutrient Loads Associated with Urban Particulate Matter (PM), and Biogenic/Litter Recovery Through Current MS4 Source Control and Maintenance Practices" and Table 8 in the report (pg.41), the following values may be used to estimate nutrient removal values from street sweeping activity:

Median Value of Nutrient Removal per Unit of Material Collected				
Total Phosphorus Total Nitrogen				
0.000361 0.000563				

Example Calculations:

In fiscal year 2010, Palm Beach County collected 1,915 cubic yards of material with the street sweeping program. Assuming the average density of the street sweeping material is 2,295 pounds per cubic yard,* then 4,394,925 pounds were collected. Using the table above, the total phosphorus removed would be estimated at (4,394,925)(0.000361) = 1,587 pounds. The total nitrogen removed would be estimated at (4,394,925)(0.000563) = 2,474 pounds.

Last year the Town of Jupiter collected 35.8 dry tons (71,600 pounds) of street sweeping material from residential areas. The estimated nutrient removal rates for total phosphorous and total nitrogen would be (71,600 pounds)(0.000361) = 26 pounds, and (71,600)(0.000563) = 40 pounds, respectively.

^{*} This assumption is based on information from the study referenced above.

Clean Safe Sweeping Schedule Mon/Wed/Fri (5:00AM-1:00PM)

MONDAY / WEDNESDAY / FI	RIDAY	MAINTENANCE ISSUES	Date & Time Completed
City Hall / Parking Lot	M/W/F		
Community Center / Parking Lot	M/W/F		
Tennis Center / Parking Lot	M/W/F		
Old School Square / Parking Lot	M/W/F		
Hands / Parking Lot	M/W/F		
NE 2nd Ave. Atlantic to NE 4th St.	M/W/F		
NW 5th Ave./ Parking Lot	M/W/F		
Gladida / Parking Lot	M/W/F		
Veterans / Parking Lot	M/W/F		
DB City Garage (Entrance on NE 1st		·	
#434 South Swinton (Compound)	M/W/F		
Delray Beach Golf Course	(friday)		
Avanable Pursuanel 10 Cover As Ma			
Other Areas Swept Or Requested (No	te Below)		

Revised 3/16/2009 RWH			
LEATER OFFICAD MAIL		1	

Sweeping Schedule Tues. Thurs. (5:00AM-1:00PM)

TUESDAY		Maintenance Issues	Date & Time Completed
Palm Ave.	Tues.		
Bronson Ave.	Tues.		
Salia Ave.	Tues.		
Knowles Parking Lot	Tues.		
Miowies Faiking Lot	100.		
Chamber Of Commerce	Lot Tues.		
Sandoway Parking Lot	Tues.		
	T		
Ingraham Parking Lot	Tues.		
Anchor Parking Lot	Tues.		
Dunes Parking Lot	Tues.		
Bankers Row	Tues.		
Thursday			
Barwick Park / Lot	(Thurs.)		
Daiwick Fark / Lot	(Thats.)		
Pompey Park / E&W Lot	S (Thurs.)		
Delray Beach Golf Cours	se (Thurs.)		
			-
Lakeview Golf Course	(Thurs.)		
Miller Park	(Thurs.)		
milici i dik	(111013.)		
Lakeview Park	(Thurs.)		
Water Treatment / Lot	(Thurs.)		
Donkoro Borr	(Theres)		
Bankers Row	(Thurs.)		
DBPD Lot	(Thurs.)		
	,,		
Other Sweeping Request N	ote Below		
Revised 11/10/2008 RWF	, 		
11011000 1777072000 1897		· · · · · · · · · · · · · · · · · · ·	<u> </u>

For use by #696 \$ 697

MONDAY Sweeping Route

			eeper #		
Odometer Finish:	Routine Maintenance:				
		eased	Washed		
Fotal Miles: Debris Weight:	Tie				
5:00 AM Atlantic Ave. "I	DOWNTOWN" SW	EEPI	VG" Scheduled		
A-1-A (N&S Bound) (Atlantic To Casuarina To N. Beach) Curbside miles	1.75	Completed:		
Ingraham Ave. W/Bound (A-1-A To Gleason)	Curbside miles	.10	Completed:	-	
Vista Del Mar / E&W Bound	Median	.50	Completed:		
(A-1-A To A-1-A)	Valley Gutter	.70	Completed:		
Thomas St. / E&W Bound (Andrews Ave. To Seabreeze Ave.)	Valley Gutter	.20	Completed:		
Seabreeze Ave. / N&S Bound (Atlantic Ave. To Dead End)	Valley Gutter	.50	Completed:		
Basin Dr. / E&N Bound (Seabreeze To Lowery)	Valley Gutter	.20	Completed:		
Cemetery	Street / Curbside miles	4.00	Completed:		
8 th Ave. / S Bound (Outside Cemetery)	Curbside miles	.20	Completed:		
TOTAL CURB MILES CO	MPLETED				
If Not Completed Please Supply	Reason				
OPERATOR SIGNATURE					

#696岁#697

Monday Sweeping Route

Odometer Start:		Sweeper #		
Odometer Finish:			Maintenance:	
Total Miles:			l Washed	
Debris Weight:	Ticket #	£		
5:00 AM Atlantic Ave. "D	own Town" Swe	eping So	cheduled	
SE 2 nd Street (E&W Bound)				
(Swinton Ave. to SE 6 th Ave.)	Curbside miles	0.60	Completed:	
SE 1st Street (E&W Bound)				
(Swinton Ave. to SE 6 th Ave.)	Curbside miles	0.80	Completed:	
S. Swinton Ave. (N&S Bound)	Street/Curb miles	2.00	Completed:	
(South 10th St. To Atlantic Ave.)				
N. Swinton Ave. (N&S Bound)	-			
(Atlantic Ave. to NE 22 nd St.)	Street/Curb miles	3,20	Completed:	
Lake Ida Rd.		<u>.</u>		
(NE 6th Ave. To Military Tr.)	Curbside miles Median miles	6.80 5.40	Completed:	
	Median miles	3.40	Completed.	
NE 1st Street (West Bound)	Curbside miles	0.70	Completed:	
3 rd Ave. (N&S Bound)				
(Atlantic Ave. to SE 2 nd Street)	Curbside miles	0.20	Completed:	
4th Ave. (N&S Bound)				
(SE 2 nd St. to NE 2 nd St.)	Curbside miles	0.40	Completed:	
5 th Ave. (N&S Bound)				
(Atlantic Ave. to NE 2 nd St.)	Curbside miles	0.20	Completed:	
Alley N. Bound (Between 4th & 5th Ave.)				
(Atlantic Ave. to NE 2 nd St.)	Curbside miles	0.20	Completed:	
Alley Between 5th & 6th Ave.		٠.		
(Atlantic Ave. To SE 2 nd St.)	Curbside miles	0.20	Completed:	
Alley Between 6th & 7th Ave.				
(Atlantic Ave. To SE 3rd St.)	Curbside miles	0.30	Completed:	

FOR USE 104 #696 \$#697

Tuesday

Sweeping Route

Odometer Start:			Date:
Odometer Finish:		Routine Maintenance:	Greased:
Total Miles:			Washed:
		4	
U.S. 1 (North & Southbound) Gulfstream Blvd. to Linton Blvd	Curbside & Median		14.4 Completed:
Banyan Tree Ln. (East & Westbound) U.S. 1 to Dead End	Curbside & Median		.15 Completed:
SE 1 st St. (One Way Eastbound) Swinton to SE 6 th Ave	Curb Miles		.80 Completed:
SE 4th St. (North Side) SE 7 th Ave to SE 5 th Ave.	Curb		.10 Completed:
SE 5 th St. (East & Westbound) SE 4 th Ave to Dead End	Median Miles		.30 Completed:
SE 7 th St. (Single Curb) Between SE 5 th & SE 6 th Ave.	Curb		.10 Completed:
SE 8 th St. (Double Curb) Between SE 5 th , SE 6 th , & SE 7 th Ave.	Curb Median		.30 Completed:
SE 9 th St. (Single Curb) Between SE 5 th & SE 6 th Ave.	Curb		.10 Completed:
SE 10 th St. (Double Curb) Between SE 5 th & SE 6 th Ave.	Curb		.20 Completed:
Palm Trail (North & Southbound) From NE 8 th St.	Curb & Median		.30 Completed:
Dixie Hwy. (Southbound) Behind I Hop	Curb		.20 Completed:
NE 8 th St. (East & Westbound) NE 3 rd Ave. To NE 2 nd Ave.	Curb		.30 Completed:
Linton Blvd. (East & Westbound) A1A to Catherine Dr.	Curb & Median		8.00 Completed:
SW 4 th St. (North & Southbound) Linton Blvd. To Miller Park	Curb		.25 Completed:
Lavers Ave. (North & Southbound) Linton Blvd. To Lavers Circle	Median		.25 Completed:
NE 1 st ,2 nd ,4 th ,5 th ,6 th ,7 th ,8 th St. Between NE 5 th & NE 6 th Ave.	Curb		.60 Completed:
Signature :		ТОТА	L ROUTE MILES SWEPT: 26.35

Date:

Wednesday Sweeping Route

Odometer Start: Sweeper # Odometer Finish: Routine Maintenance: Greased ____ Washed ____ Total Miles: Debris Weight Ticket# Completed ____ West Atlantic Ave. /East & West Bound Curbside miles 6.0 (From Swinton Ave. To Military Trail) Completed Median miles 6.0 Barwick Road /North Bound Curbside miles 0.2 Completed (From Atlantic Ave. To End Of Curb) U.S. 1/North & South Bound Completed ____ Curbside miles 2.4 (From Linton Blvd. South To C-15 Canal) Median miles 2.4 SE 10th Street & Dixie Hwy Curbside miles 0.2 Completed (Intersection) Tropic Isle Drive /East & West Bound Median miles 0.3 Completed (From U.S. 1 East Bound To End) Spanish Circle /East & West Bound Median miles 0.4Completed Tropic Blvd. /East & West Bound Median miles Completed 0,25 (From U.S. 1 To Spanish Trail) Lamat Ave. / East & West Bound Curbside miles 0.6 Completed ____ (From U.S. 1 To Florida Blvd.) Median miles SW 4th Ave. & SW 10th Street Curbside miles .25 Completed (Intersection) Completed _____ Curbside miles Lake Ida Road 6.80 (NE 6th Ave to Military Trail) Median miles 5.40 Completed 5th Ave. / North & South Bound Curbside miles 0.5 Completed (From Atlantic Ave. To NW 2nd Street) Completed ____ Lake Ida Road Curbside miles 6,80 (NE 6th Ave. To Military Trail) Completed Median miles 5.40 Total Route Miles Swept 32.60 Incomplete Route (Explain Problem) Additional Sweeping Requested _____

Operators Signature

MONDAY / WEDNESDAY / FRIDAY

Clean & Safe Sweeping Route Mileage & Time

Start Time:	Sweeper#	
Finish Time:	Total Miles	14.6
rmish time.		
NW/SW 12th Ave. / North & South Bound	(Street Miles .4)	Completed
NW/SW 12 th Ave. / North & South Bound	(Street Miles .4)	Completed
NW/SW 10 th Ave. / North & South Bound	(Street Miles .4)	Completed
NW/SW 9th Ave. / North & South Bound	(Street Miles .4)	Completed
NWSW 8 th Ave. / North & South Bound	(Street Miles .4)	Completed
NW/SW 7 th Ave. / North & South Bound	(Street Miles .4)	Completed
NW/SW 6 th Ave. / North & South Bound	(Street Miles .4)	Completed
NW/SW 5 th Ave. / North & South Bound	(Street Miles .4)	Completed
NW/SW 4 th Ave. / North & South Bound	(Street Miles .4)	Completed
NW 3 rd Ave. / North & South Bound	(Street Miles .2)	Completed
SW 2 nd Ave. / North & South Bound	(Street Miles .2)	Completed
NW 1 st Ave. / North & South Bound	(Street Miles .2)	Completed
SW 1st Ave. / North & South Bound	(Street Miles .2)	Completed
SW 1 Ave. / Hortin to South Bound		-
(Atlantic Ave.)Swinton Ave NW 12th Ave.	(Street Miles 1.4)	Completed
(Atlantic Ave.)SW 12 th Ave Swinton Ave.	(Street Miles 1.4)	Completed
(Atlantic Ave.)544 12 12461 Strands	,	-
Andrews Ave. / North & South Bound	(Street Miles .2)	Completed
Seabreeze Ave. / North & South Bound	(Street Miles .2)	Completed
Gleason St. / North & South Bound	(Street Miles .2)	Completed
East Road / North & South Bound	(Street Miles .2)	Completed
Venetian Dr. / North & South Bound	(Street Miles .2)	Completed
Palm Square / North & South Bound	(Street Miles .2)	Completed
NE/SE 7th Ave. / North & South Bound	(Street Miles .4)	Completed
NE 4th Ave. (2Blocks) N&S Bound	(Street Miles .4)	Completed
SE 4th Ave. / North & South Bound	(Street Miles .2)	Completed
SE 3 rd Ave. / North & South Bound	(Street Miles .2)	Completed
Railroad Ave. / North & South Bound	(Street Miles .2)	Completed
NE 2 nd Ave. (4 Blocks) N&S Bound	(Street Miles .8)	Completed
SE 2 nd Ave. / North & South Bound	(Street Miles .2)	Completed
SE 1 st Ave. / North & South Bound	(Street Miles .2)	Completed
DE I WAR! I HOURTH OF DOCUME DOCUME		
(Atlantic Ave.)Swinton Ave Ocean Blvd.	(Street Miles 1.8)	Completed
(Atlantic Ave.)Ocean Blvd Swinton Ave.	(Street Miles 1.8)	Completed
(ZALIMANIC ZATO) COURT DATE OF THE PROPERTY OF	•	,
Route Problems (Specify)		

For use by # 6917

Thursday Sweeping Route

dometer Start:		Sweeper#		
	Routine M	aintenance		
uch March	Washed:	Greased:		
Debris Weight		Ticket #		
Median miles 3.60 Curbside miles 3.60	Completed:			
Curbside miles 1.00	Completed:			
d Curbside miles .50 Median miles 1.50	Completed:			
Curbside miles 3.00 Median miles 3.	Completed:00 Completed:			
Curbside miles 7.30 Median miles 7.30	Completed:			
Curbside miles				
Curbside miles				
Curbside miles 0.35	Completed:			
Route Miles Swept	31.15			
		MANITOR AND TO SERVICE AND TO SERVIC		
	Median miles 3.60 Curbside miles 3.60 Curbside miles 1.00 d Curbside miles 1.50 Median miles 1.50 Curbside miles 3.00 Median miles 3.00 Median miles 7.30 Curbside miles 7.30	Median miles 3.60 Completed: Curbside miles 3.60 Completed: Curbside miles 1.00 Completed: Median miles 1.50 Completed: Median miles 3.00 Completed: Median miles 3.00 Completed: Median miles 3.00 Completed: Curbside miles 7.30 Completed: Median miles 7.30 Completed: Median miles 7.30 Completed: Median miles 7.30 Completed: Curbside miles 7.30 Completed: Median miles 7.30 Completed:		

For use by #696 \$ #697

Friday Sweeping Route

Glometer Start	Sweep	eeper#		
Odometer Finish	Sweeper #Routine Maintenance:			
Total Miles:	Greas	e: Washed:		
Debris Weight	Ticket#			
5:00 AM Atlantic Ave. "De	1924110 Trouses 77 Crase	regrifings Critical sales		
	Nikara zakikara Fikan⊄	thank afasanaas		
Other Notes Of Interest:				
		·		
SE 3rd Ave. / North & South Bound	Cinheide miles	0.2 Completed		
(From SE 1st St. to SE 2st St.) Extension of	off/C&S	AT SOUNDINESS		
CE 4th Asia / Maril C. C. of the				
SE 4th Ave. / North & South Bound (From SE 2nd St. to SE 1st St.) Extension of	Curbside miles	0.2 Completed		
NE 7th Ave. / North & South Bound	Curbside miles	0.2 Completed		
(From NE 1" St. to NE 2 nd St.) Extension	off/C&S			
Ailantic Ave. / East & West Bound	Curbside miles	4.6 Completed		
(From 12th Ave. to Military Tr.) E/C&S	Median miles	4.6 Completed		
Will 5th Acco / Wart & Court Pour	Zanatnita na m	^ ^ ^ · · · · · · · · · · · · · · · · ·		
NW 5 th Ave. / North & South Bound (From NW 1 st St. to NW 2 nd St.)Extension	curbside miles	0.2 Completed		
·				
Congress Ave. / North & South Bound	Curbside miles			
(North City Line to South City Line)	Median miles	8.2 Completed		
	••			
TOTAL ROUTE MIL	ES SWEPT	<u>26.4</u>		
Incomplete Route (Explain Problem)				
raamonai Area Sweeping Request				
Arrantes Sinsanterus	and the state of t	Date		