



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

Residuals Annual Summary

Part I-Facility Information

FACILITY NAME:

PALMETTO WWTP CITY OF

MAILING ADDRESS:

1310 28TH AVENUE WEST

PALMETTO, FL 34221

FACILITY ID: **FL0020401**

MONITORING PERIOD-- From: **1/1/2010** To: **12/31/2010**

Total Quantity of Residuals Applied during the Period: **218.63** dry tons

Total Number of Residuals Land Application Sites Used during Reporting Period: **2**
(application sites used)

(Parts II and III should address all residuals land application sites used)

Update of Residuals Characteristics (arithmetic average of all samples taken pursuant to Rule 62-640.650(1), F.A.C., during the reporting period):

Parameter	Units*	Ceiling Limits For Class A and B	Concentration	Parameter (continued)	Units	Ceiling Limits For Class A and B	Concentration
Total Nitrogen	%	N/A	7.01	Copper	mg/Kg	4300	475.25
Total Phosphorus	%	N/A	4.89	Lead	mg/Kg	840	24.68
Total Potassium	%	N/A	0.69	Mercury	mg/Kg	57	1.10
Total Solids	%	N/A	13.10	Molybdenum	mg/Kg	75	25.08
pH	s.u.	N/A	5.98	Nickel	mg/Kg	420	21.42
Arsenic	mg/Kg	75	9.81	Selenium	mg/Kg	100	9.63
Cadmium	mg/Kg	85	1.35	Zinc	mg/Kg	7500	1,965.00

*All units are in dry weight basis except for total solids and pH. All sampling and analysis shall be conducted pursuant to Title 40 Code of Federal Regulations, Section 503.8 and the POTW Sludge Sampling and Analysis Guidance Document.

N/A=Not Applicable

Pathogen Reduction Class (Rule 62-640.600(1), F.A.C.): ☐ A ☒ B (Rule 62-640.600(1), F.A.C.)

EPA Vector Attraction Reduction Option (Rule 62-640.600(2), F.A.C.):

- ☐ 1 ☐ 2 ☐ 3 ☒ 4 ☐ 5
☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10

Certification

I certify under penalty of law that I have personally examined and am familiar with the information herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	TELEPHONE NO.
Allen R. Tusing, Director of Public Works	941-723-4580
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE (YY/MM/DD)
<i>Allen R. Tusing</i>	11-1-14 11-1-14

Part II. Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used only By This Facility (attach a separate sheet "other solids," if applicable):

Facility Name: PALMETTO WWTP CITY OF

Site Name	Application Zone ID(s)	Crop(s)	Dry Tons Applied per Acre	Basis	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
M J Ranch	10	Bahia	0.0600	annual	15	4.81	3.37	1.06	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.17
				cummulative	N/A	N/A	338.16	57.24	0.14	0.03	4.38	0.28	0.01	0.28	0.05	8.95
M J Ranch	11	Bahia	0.1128	annual	165	18.54	9.92	1.35	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.32
				cummulative	N/A	N/A	846.24	118.46	0.18	0.18	13.68	0.91	0.04	0.76	0.11	19.95
M J Ranch	14	Bahia	0.6203	annual	25	49.75	34.86	10.92	0.02	0.00	0.53	0.03	0.00	0.03	0.00	1.76
				cummulative	N/A	N/A	470.59	115.03	0.33	0.18	8.82	0.62	0.02	0.54	0.07	12.67
M J Ranch	3	Bahia	0.2794	annual	75	40.51	32.63	3.97	0.01	0.00	0.27	0.01	0.00	0.01	0.01	1.69
				cummulative	N/A	N/A	213.11	44.44	0.12	0.02	5.16	0.18	0.01	0.18	0.03	6.51
M J Ranch	4B	Bahia	0.2021	annual	250	33.11	24.34	1.37	0.00	0.00	0.19	0.01	0.00	0.01	0.00	0.61
				cummulative	N/A	N/A	365.36	45.63	0.06	0.03	3.89	0.19	0.01	0.15	0.04	8.83
M J Ranch	6A	Bahia	0.4473	annual	70	48.41	34.77	6.25	0.01	0.00	0.40	0.02	0.00	0.02	0.00	1.29
				cummulative	N/A	N/A	373.76	54.85	0.08	0.02	4.64	0.24	0.02	0.17	0.07	10.32
M J Ranch	7	Bahia	0.3686	annual	95	45.88	26.88	5.40	0.01	0.00	0.32	0.02	0.00	0.01	0.00	1.05
				cummulative	N/A	N/A	541.27	95.02	0.16	0.13	7.92	0.57	0.02	0.44	0.08	13.61
Hart-Albriton	Zone 1	Bahia	0.4366	annual	400	69.43	44.76	5.50	0.01	0.00	0.41	0.02	0.00	0.02	0.00	1.76
				cummulative	N/A	N/A	636.05	58.27	0.15	0.07	10.46	0.37	0.02	0.39	0.12	21.18
Hart-Albriton	Zone 10	Bahia	0.0954	annual	400	13.83	11.14	1.35	0.00	0.00	0.09	0.01	0.00	0.00	0.00	0.58
				cummulative	N/A	N/A	319.44	46.82	0.07	0.02	5.64	0.24	0.01	0.17	0.03	7.45

(Enter all nutrient and trace element quantities in lbs/acre)
 * Based on two (2) growing seasons per year

Part III. Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used By Multiple Facilities (attach a separate sheet "other solids," if applicable):

Site Name: Hart-Albritton

Application Zone ID(s)	Crop(s)	Facility Facility ID	Dry Tons Applied per Acre	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
Zone 1	Bahia	PALMETTO WWTP CITY OF	0.4366	400	69.43	44.7648	5.5037	0.0004	0.0010	0.4076	0.0206	0.0010	0.0180	0.0085	1.7591
		FL0020401													
Zone 1	Bahia	Sun 'n Lake of Sebring Improvement Dist. 4 WWTP	0.0085	400	1.64	0.3434	0.1139	0.0000	0.0000	0.0139	0.0002	0.0000	0.0002	0.0002	0.0111
		FL018288													
Zone 1	Bahia	CITY OF BARTOW MAIN WWTF	0.7756	400	45.51	40.6943	2.2370	0.0001	0.0021	0.4860	0.0460	0.0017	0.0153	0.0087	0.7191
		FLA012976													
Zone 1	Bahia	CHARLOTTE CORRECTIONAL	0.0037	400	0.53	0.1636	0.0631	0.0000	0.0000	0.0053	0.0000	0.0000	0.0001	0.0001	0.0031
		FLA014130													
Zone 1	Bahia	SEBRING CITY OF WWTF	1.1547	400	170.88	37.2129	11.9321	0.0003	0.0018	0.5533	0.0303	0.0058	0.0229	0.0077	1.7821
		FLA014311													
Annual Total		N/A	2.38	400	287.99	123.18	19.84	0.02	0.01	1.47	0.10	0.01	0.06	0.03	4.27
Cumulative Total			1,439.72		N/A	N/A	N/A	0.15	0.07	10.46	0.37	0.02	0.39	0.12	21.18
Zone 10	Bahia	PALMETTO WWTP CITY OF	0.0954	400	13.83	11.1366	1.3542	0.0003	0.0002	0.0919	0.0051	0.0002	0.0044	0.0021	0.5760
		FL0020401													
Zone 10	Bahia	CITY OF BARTOW MAIN WWTF	0.0686	400	4.74	3.4280	0.2468	0.0002	0.0003	0.0646	0.0057	0.0002	0.0019	0.0011	0.0963
		FLA012976													
Zone 10	Bahia	SEBRING CITY OF WWTF	0.0798	400	11.40	2.5380	0.8141	0.0000	0.0001	0.0380	0.0021	0.0004	0.0016	0.0003	0.1239
		FLA014311													
Annual Total		N/A	0.24	400	29.97	17.10	2.42	0.00	0.00	0.19	0.01	0.00	0.01	0.00	0.80
Cumulative Total			923.57		N/A	N/A	N/A	0.07	0.02	5.64	0.24	0.01	0.17	0.03	7.45

Site Name: M.J Ranch

Application Zone ID(s)	Crop(s)	Facility Facility ID	Dry Tons Applied per Acre	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
10	Bahia	PALMETTO WWTP CITY OF	0.0600	400	4.81	3.3736	1.0565	0.0017	0.0002	0.0510	0.0027	0.0001	0.0024	0.0009	0.1705
		FL0020401													
10	Bahia	Appalachian Material Service, Inc.	0.2841	400	35.01	13.6387	2.8812	0.0001	0.0005	0.1227	0.0080	0.0003	0.0044	0.0026	0.2506
		FLA190284													
Annual Total		N/A	0.34	400	39.82	17.01	3.94	0.00	0.00	0.17	0.01	0.00	0.01	0.00	0.42
Cumulative Total			421.84		N/A	N/A	N/A	0.14	0.03	4.38	0.28	0.01	0.28	0.05	8.95
11	Bahia	PALMETTO WWTP CITY OF	0.1128	400	18.54	9.9240	1.3533	0.0011	0.0003	0.0988	0.0046	0.0003	0.0042	0.0020	0.3248
		FL0020401													

(Enter all nutrient and trace element quantities in lbs/acre)

* Based on two (2) growing seasons per year

Part III. Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used By Multiple Facilities (attach a separate sheet "other solids," if applicable):

11	Bahia	City of Oldsmar FL0027651	0.0492	400	3.35	1.2797	0.4922	0.0008	0.0020	0.0443	0.0008	0.0000	0.0051	0.0008	0.0522
11	Bahia	CHARLOTTE CORRECTIONAL FLA014130	0.0399	400	5.64	1.7543	0.5693	0.0001	0.0001	0.0563	0.0005	0.0000	0.0011	0.0015	0.0329
11	Bahia	Appalachian Material Service, Inc. FLA190284	0.3528	400	35.48	13.7578	4.7845	0.0001	0.0005	0.1228	0.0077	0.0004	0.0045	0.0039	0.2548
Annual Total		N/A	0.55	400	63.01	26.72	7.20	0.00	0.00	0.32	0.01	0.00	0.01	0.01	0.66
Cumulative Total			833.81		N/A	N/A	N/A	0.18	0.18	13.68	0.91	0.04	0.78	0.11	19.95
14	Bahia	PALMETTO WWTP CITY OF	0.6203	400	48.75	34.8612	10.9174	0.0010	0.0025	0.5273	0.0274	0.0012	0.0253	0.0096	1.7617
14	Bahia	FL0020401 CHARLOTTE CORRECTIONAL	0.1765	400	23.83	7.8356	2.4718	0.0000	0.0006	0.2477	0.0022	0.0002	0.0047	0.0073	0.1483
14	Bahia	FLA014130 Appalachian Material Service, Inc.	0.5244	400	52.41	25.0433	5.8077	0.0000	0.0021	0.2922	0.0125	0.0005	0.0096	0.0036	0.6299
Annual Total		N/A	1.32	400	126.00	67.74	19.20	0.02	0.01	1.07	0.04	0.00	0.04	0.02	2.54
Cumulative Total			625.67		N/A	N/A	N/A	0.33	0.18	8.82	0.62	0.02	0.54	0.07	12.67
3	Bahia	PALMETTO WWTP CITY OF	0.2794	400	40.51	32.6296	3.9670	0.0052	0.0005	0.2693	0.0149	0.0005	0.0129	0.0060	1.6874
3	Bahia	FL0020401 Appalachian Material Service, Inc.	0.2990	400	18.83	13.5724	2.4335	0.0003	0.0021	0.2386	0.0063	0.0003	0.0064	0.0008	0.1865
Annual Total		N/A	0.58	400	59.34	46.20	6.40	0.01	0.00	0.51	0.02	0.00	0.02	0.01	1.87
Cumulative Total			60.77		N/A	N/A	N/A	0.12	0.02	5.16	0.18	0.01	0.18	0.03	6.51
4B	Bahia	PALMETTO WWTP CITY OF	0.2021	400	33.11	24.3357	1.3744	0.0007	0.0004	0.1928	0.0083	0.0006	0.0086	0.0031	0.6064
4B	Bahia	FL0020401 HARDEE CORRECTIONAL INSTITUTION	0.0129	400	2.19	0.4265	0.0905	0.0001	0.0000	0.0244	0.0003	0.0000	0.0004	0.0005	0.0156
4B	Bahia	FLA012022 CHARLOTTE CORRECTIONAL	0.0174	400	1.74	0.8112	0.2172	0.0000	0.0002	0.0236	0.0002	0.0000	0.0004	0.0010	0.0162
4B	Bahia	FLA014130 Appalachian Material Service, Inc.	0.2509	400	26.84	13.1766	2.5366	0.0000	0.0027	0.1410	0.0079	0.0003	0.0077	0.0011	0.6293
Annual Total		N/A	0.52	400	63.87	38.75	4.22	0.00	0.00	0.38	0.02	0.00	0.02	0.01	1.27
Cumulative Total			510.12		N/A	N/A	N/A	0.06	0.03	3.89	0.19	0.01	0.15	0.04	8.83
6A	Bahia	PALMETTO WWTP CITY OF	0.4473	400	48.41	34.7671	6.2528	0.0010	0.0015	0.3958	0.0201	0.0010	0.0185	0.0069	1.2943
6A	Bahia	FL0020401 HARDEE CORRECTIONAL INSTITUTION	0.0064	400	1.08	0.2110	0.0448	0.0001	0.0000	0.0121	0.0002	0.0000	0.0002	0.0002	0.0077
6A	Bahia	FLA012022													

(Enter all nutrient and trace element quantities in lbs/acre)

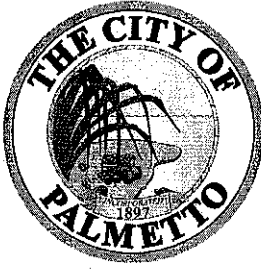
* Based on two (2) growing seasons per year

Part III. Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used By Multiple Facilities (attach a separate sheet "other solids," if applicable):

6A	Bahia	CHARLOTTE CORRECTIONAL FLA014130	0.0258	400	2.58	1.2038	0.3224	0.0000	0.0002	0.0351	0.0004	0.0000	0.0007	0.0016	0.0240
6A	Bahia	Appalachian Material Service, Inc. FLA190284	0.1282	400	13.64	5.3822	1.9582	0.0000	0.0005	0.0615	0.0027	0.0001	0.0028	0.0011	0.2830
Annual Total		N/A	0.161	400	65.71	42.56	8.58	0.01	0.00	0.50	0.02	0.00	0.02	0.01	1.61
Cumulative Total			434.49		N/A	N/A	N/A	0.08	0.02	4.64	0.24	0.02	0.17	0.07	10.32
7	Bahia	PALMETTO WWTP CITY OF	0.3686	400	45.88	26.8783	5.4033	0.0007	0.0012	0.3184	0.0157	0.0008	0.0143	0.0061	1.0547
7	Bahia	FL0020401													
7	Bahia	CHARLOTTE CORRECTIONAL FLA014130	0.0742	400	10.49	3.2646	1.0595	0.0000	0.0002	0.1048	0.0009	0.0001	0.0020	0.0028	0.0611
7	Bahia	Appalachian Material Service, Inc. FLA190284	0.1358	400	11.72	5.3887	2.3987	0.0000	0.0004	0.0513	0.0022	0.0002	0.0024	0.0014	0.2315
Annual Total		N/A	0.58	400	68.09	35.53	8.86	0.01	0.00	0.47	0.02	0.00	0.02	0.01	1.35
Cumulative Total			1,010.16		N/A	N/A	N/A	0.16	0.13	7.92	0.57	0.02	0.44	0.08	13.61

(Enter all nutrient and trace element quantities in lbs/acre)

* Based on two (2) growing seasons per year



Dept. Of Environmental Protection

JAN 18 2011

Southwest District

LETTER OF TRANSMITTAL

CITY OF PALMETTO
Department of Public Works
600 17TH Street West
Palmetto, Florida 34221

Phone: (941) 723-4580 Fax: (941) 723-4539

TO: Florida Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, Florida 33637

DATE: January 13, 2011

SUBJECT: 2010 Residuals Annual Summary

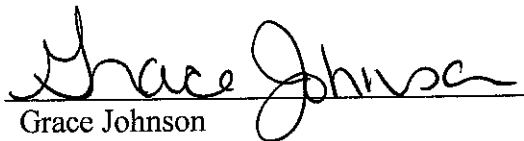
WE ARE SENDING YOU:

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1	01/01-12/31/10	City of Palmetto
		Residuals Annual Summary

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☒	FOR APPROVAL	☒	AS REQUESTED	☐	FOR REVIEW AND COMMENT
☐	FOR YOUR USE	☐	FOR YOUR INFORMATION	☐	OTHER

Signed:



Grace Johnson

Deputy Director of Administration

cc: Ray D'iauto, WWTP Manager
GF:1261

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