



Florida Department of Environmental Protection

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

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Residuals Annual Summary

JAN 31 2011

SOUTHWEST DISTRICT
WATER FACILITIES

Part I-Facility Information

FACILITY NAME:

CITY OF BARTOW MAIN WWTF

MAILING ADDRESS:

2505 EAST WABASH AVE

BARTOW, FL 33830

FACILITY ID: FLA012976

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

AMS

Total Quantity of Residuals Applied during the Period: 258.50 dry tons

Total Number of Residuals Land Application Sites Used during Reporting Period: 3
application sites used)

(Parts II and III should address all residuals land

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	3.73	Copper	mg/Kg	4300	361.38
Total Phosphorus	%	N/A	2.80	Lead	mg/Kg	840	36.59
Total Potassium	%	N/A	0.42	Mercury	mg/Kg	57	1.01
Total Solids	%	N/A	7.25	Molybdenum	mg/Kg	75	21.72
pH	s.u.	N/A	5.67	Nickel	mg/Kg	420	12.23
Arsenic	mg/Kg	75	3.35	Selenium	mg/Kg	100	6.28
Cadmium	mg/Kg	85	1.70	Zinc	mg/Kg	7500	615.25

*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. 863
Connie L. Adcock wastewater supervisor	534-0147
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE (YY/MM/DD)
Connie L. Adcock	11/1/11

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: CITY OF BARTOW MAIN WWTF

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
JMC Ranch	3	Bahia Grass	0.5043	annual	400	62.08	39.18	6.81	0.01	0.00	0.58	0.07	0.00	0.02	0.00	1.05
				cumulative	N/A	N/A	1,018.87	715.17	0.14	0.09	19.67	0.90	0.03	0.64	0.24	27.38
JMC Ranch	6	Bahia Grass	0.3096	annual	400	26.63	26.63	1.36	0.00	0.00	0.31	0.04	0.00	0.01	0.00	0.53
				cumulative	N/A	N/A	682.94	165.89	0.13	0.08	23.69	1.52	0.04	1.54	0.32	31.57
AMS, Inc. Central RMF	N/A		0.0000	annual	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				cumulative	N/A	N/A	204,590.7	14,115.61	2.14	0.31	55.02	2.98	0.23	1.92	0.94	77.54
Hart-Albritton	Zone 1	Bahia	0.7756	annual	400	45.51	40.69	2.24	0.00	0.00	0.49	0.05	0.00	0.02	0.00	0.72
				cumulative	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-Albritton	Zone 10	Bahia	0.0686	annual	400	4.74	3.43	0.25	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.10
				cumulative	N/A	N/A	319.44	46.82	0.07	0.02	5.64	0.24	0.01	0.17	0.03	7.45
Hart-Albritton	Zone 2	Bahia	0.1329	annual	400	10.55	10.65	0.60	0.00	0.00	0.13	0.01	0.00	0.00	0.00	0.21
				cumulative	N/A	N/A	552.68	104.26	0.17	0.05	11.60	0.49	0.02	0.52	0.12	20.81
Hart-Albritton	Zone 7	Bahia	0.3504	annual	400	12.58	14.61	1.83	0.00	0.00	0.21	0.02	0.00	0.01	0.00	0.31
				cumulative	N/A	N/A	421.02	50.09	0.17	0.06	8.89	0.38	0.02	0.48	0.13	18.40

(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	Dry Tons Applied per Acre	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
Zone 1	Bahia Grass	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 Grass	Surf'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
		FL016268													
Zone 1	Bahia Grass	CITY OF BARTOW MAIN WWTP	0.7756	400	46.51	40.6943	2.2370	0.0001	0.0021	0.4860	0.0460	0.0017	0.0153	0.0087	0.7191
		FLA012976													
Zone 1	Bahia Grass	CHARLOTTE CORRECTIONAL	0.0037	400	0.53	0.1636	0.0531	0.0000	0.0000	0.0053	0.0000	0.0000	0.0001	0.0001	0.0031
		FLA014130													
Zone 1	Bahia Grass	SEBRING CITY OF WWTP	1.1547	400	170.88	37.2729	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	11.1386	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 WWTP	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 WWTP	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
Zone 2	Bahia	MANATEE COUNTY SOUTHWEST REGIONAL	0.1125	400	14.56	6.0985	0.4276	0.0016	0.0003	0.1125	0.0036	0.0001	0.0050	0.0000	0.3151
		FLA012619													
Zone 2	Bahia	CITY OF BARTOW MAIN WWTP	0.1329	400	10.55	10.6529	0.6050	0.0002	0.0007	0.1268	0.0146	0.0007	0.0035	0.0020	0.2135
		FLA012976													
Zone 2	Bahia	SEBRING CITY OF WWTP	0.4309	400	78.26	15.0823	4.8263	0.0001	0.0006	0.2155	0.0121	0.0005	0.0082	0.0103	0.6412
		FLA014311													
Zone 2	Bahia	SUNN LAKE OF SEBRING UNIT 23 WWTP	0.0470	400	10.24	2.1513	0.4979	0.0001	0.0001	0.0411	0.0004	0.0001	0.0008	0.0019	0.0406
		FLA014389													
Annual Total		N/A	0.72	400	113.60	33.99	6.36	0.01	0.00	0.50	0.03	0.00	0.02	0.01	1.21
Cumulative Total			2,889.70		N/A	N/A	N/A	0.17	0.05	11.60	0.49	0.02	0.52	0.12	20.81
Zone 7	Bahia	WAUCHULA WWTP CITY OF	0.0345	400	3.04	1.9238	0.2620	0.0001	0.0003	0.0542	0.0072	0.0001	0.0014	0.0001	0.0779
		FL0023949													

(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):

Zone	Crop(s)	Facility	Dry Tons Applied per Acre	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
Zone 7	Bahia	Surf'n Lake of Sebring Improvement Dist. 4 WWTP FL016258	0.0026	400	0.43	0.0933	0.0423	0.0001	0.0000	0.0028	0.0001	0.0000	0.0001	0.0002	0.0026
Zone 7	Bahia	CITY OF BARTOW MAIN WWTF FL012976	0.3504	400	12.58	14.6054	1.8277	0.0001	0.0011	0.2123	0.0214	0.0016	0.0063	0.0038	0.3144
Zone 7	Bahia	SEBRING CITY OF WWTF FL014311	0.6070	400	110.23	21.2446	6.7983	0.0001	0.0008	0.3035	0.0170	0.0007	0.0115	0.0146	0.9032
Zone 7	Bahia	SUNW LAKE OF SEBRING UNIT 23 WWTP FL014389	0.0873	400	19.03	3.9988	0.9255	0.0002	0.0002	0.0763	0.0008	0.0002	0.0015	0.0035	0.0754
Annual Total		N/A	1.08	400	145.31	41.87	9.86	0.01	0.00	0.65	0.05	0.00	0.02	0.02	1.37
Cumulative Total			1,669.21		N/A	N/A	N/A	0.17	0.06	8.89	0.38	0.02	0.48	0.13	18.40

Site Name: JMC Ranch

Application Zone ID(s)	Crop(s)	Facility	Dry Tons Applied per Acre	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
3	Bahia	HARDEE CORRECTIONAL INSTITUTION FL012022	0.0732	400	12.39	2.4140	0.5121	0.0002	0.0001	0.1383	0.0019	0.0002	0.0020	0.0026	0.0884
3	Bahia	CITY OF BARTOW MAIN WWTF FL012976	0.5043	400	62.08	39.1817	6.8069	0.0001	0.0031	0.5835	0.0668	0.0026	0.0179	0.0093	1.0484
3	Bahia	HAINES CITY WWTP FL012977	1.0420	400	185.04	53.8602	554.3279	0.0002	0.0016	1.0840	0.0378	0.0013	0.0292	0.0157	1.5784
3	Bahia	BOWLING GREEN STP FL011991	0.0415	400	5.11	2.1928	0.5017	0.0000	0.0004	0.0440	0.0042	0.0001	0.0016	0.0006	0.0825
3	Bahia	AMS, Inc. Central RMF FL0167049	1.1381	400	111.54	46.2075	8.2627	0.0001	0.0023	0.6464	0.0323	0.0013	0.0211	0.0132	1.0198
Annual Total		N/A	2.80	400	376.16	143.86	570.41	0.01	0.01	2.50	0.14	0.01	0.07	0.04	3.83
Cumulative Total			1,547.56		N/A	N/A	N/A	0.14	0.09	19.67	0.90	0.03	0.64	0.24	27.38
6	Bahia Grass	HARDEE CORRECTIONAL INSTITUTION FL012022	0.0257	400	4.36	0.8490	0.1801	0.0002	0.0000	0.0486	0.0007	0.0001	0.0007	0.0009	0.0311
6	Bahia Grass	CITY OF BARTOW MAIN WWTF FL012976	0.3096	400	26.63	26.6264	1.3623	0.0030	0.0018	0.3090	0.0359	0.0017	0.0085	0.0047	0.5257
6	Bahia Grass	AMS, Inc. Central RMF FL0167049	1.2497	400	129.56	38.8531	6.0298	0.0001	0.0036	0.7720	0.0513	0.0007	0.0247	0.0137	1.0893
Annual Total		N/A	1.59	400	180.55	65.33	7.57	0.01	0.01	1.13	0.09	0.00	0.03	0.02	1.65
Cumulative Total			1,035.43		N/A	N/A	N/A	0.13	0.08	23.69	1.52	0.04	1.54	0.32	31.57

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

* Based on two (2) growing seasons per year

Hauling Records Summary For Calendar Year From 1/1/2010 to 12/31/2010 (For Product hauled from plant to plant, plant to landfill or plant to Residuals Management Facility only)

Facility ID	Facility Name	Quantity of Residual Hauled (gallons/cy)	Comments Hauled to
FLA012976	CITY OF BARTOW MAIN WWTF	50,000.00	AMS, Inc. Central RMF:AMS, Inc. Central RMF