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:
LAKE SUZY UTILITIES
MAILING ADDRESS:
12408 S.W. SHERI STREET
LAKE SUZY, FL 33821

FACILITY ID: ***FLA011964***

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

Total Quantity of Residuals Applied during the Period: ***2.59*** dry tons
Total Number of Residuals Land Application Sites Used during Reporting Period: 2 (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	*6.33*	Copper	mg/Kg	4300	*234.00*
Total Phosphorus	%	N/A	*1.56*	Lead	mg/Kg	840	*16.30*
Total Potassium	%	N/A	*0.53*	Mercury	mg/Kg	57	*0.13*
Total Solids	%	N/A	*1.41*	Molybdenum	mg/Kg	75	*15.60*
pH	s.u.	N/A	*7.45*	Nickel	mg/Kg	420	*13.50*
Arsenic	mg/Kg	75	*4.82*	Selenium	mg/Kg	100	*9.22*
Cadmium	mg/Kg	85	*1.70*	Zinc	mg/Kg	7500	*1,130.00*

*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.
Patricia R Williams	352-266-0608
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE (YY/MM/DD)
	3-9-11

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: *LAKE SUZY UTILITIES*

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
Flint Ranch/ Manatee	4	Bahia	0.1029	annual	400	11.95	4.13	1.16	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.29
				cummulative	N/A	N/A	489.77	19,659.15	0.11	0.09	38.80	0.59	0.03	0.40	0.17	27.53
Blue Septic Tank Service RMF	N/A		0.0000	annual	400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				cummulative	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

* Based on two (2) growing seasons per year

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

Site Name: Flint Ranch/ Manatee

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
4	Bahia	SUNRISE MHP WWTP FLA011953	0.0115	400	2.57	0.5023	0.1009	0.0001	0.0001	0.0062	0.0005	0.0000	0.0004	0.0001	0.0429
4	Bahia	OAK VIEW MHP WWTP FLA011955	0.0235	400	3.40	0.8688	0.2160	0.0001	0.0001	0.0085	0.0010	0.0000	0.0006	0.0002	0.0702
4	Bahia	CROSS CREEK CC/RV RESORT WWTP FLA011959	0.0555	400	11.89	2.5035	0.7524	0.0001	0.0001	0.0147	0.0005	0.0001	0.0008	0.0013	0.0805
4	Bahia	DESOTO VILLAGE WWTP FLA011960	0.0089	400	1.70	0.3843	0.0907	0.0001	0.0000	0.0029	0.0002	0.0000	0.0002	0.0002	0.0139
4	Bahia	BIG TREE OF ARCADIA FLA011961	0.0267	400	5.13	0.9277	0.2826	0.0002	0.0001	0.0091	0.0006	0.0000	0.0006	0.0009	0.0542
4	Bahia	LITTLE WILLIES RV PARK FLA011962	0.0097	400	2.01	0.3833	0.0678	0.0001	0.0000	0.0033	0.0001	0.0000	0.0002	0.0004	0.0227
4	Bahia	ARCADIA VILLAGE PHASE I WWTP FLA011963	0.0887	400	14.21	3.4871	0.6331	0.0001	0.0002	0.0171	0.0011	0.0001	0.0015	0.0087	0.1590
4	Bahia	LAKE SUZY UTILITIES FLA011964	0.1029	400	11.95	4.1277	1.1559	0.0000	0.0005	0.0564	0.0041	0.0000	0.0036	0.0020	0.2934
4	Bahia	LIVE OAK R.V. RESORT FLA011969	0.0600	400	12.61	2.6894	0.6724	0.0001	0.0001	0.0134	0.0006	0.0001	0.0012	0.0017	0.1077
4	Bahia	Peace River Youth Academy FLA011985	0.0149	400	1.11	0.7975	0.4062	0.0002	0.0002	0.0105	0.0003	0.0000	0.0009	0.0004	0.0173
4	Bahia	HOLIDAY PALMS RVP FLA012143	0.0053	400	0.65	0.1555	0.0949	0.0000	0.0000	0.0042	0.0002	0.0000	0.0002	0.0001	0.0033
4	Bahia	MANATEE RVP FLA012144	0.0053	400	0.57	0.1109	0.0836	0.0000	0.0000	0.0020	0.0002	0.0000	0.0001	0.0002	0.0076
4	Bahia	HILLSBOROUGH CORRECTIONAL FLA012608	0.0704	400	7.37	1.6965	0.5280	0.0001	0.0001	0.0143	0.0012	0.0002	0.0013	0.0008	0.0643
4	Bahia	BURNT STORE COLONY MOBILE HOME PARK FLA014086	0.0526	400	2.00	1.7253	0.1757	0.0002	0.0001	0.0109	0.0009	0.0002	0.0010	0.0006	0.0845
4	Bahia	Sun N Shade Campground WWTP FLA014120	0.0248	400	2.83	1.1914	0.1986	0.0003	0.0001	0.0079	0.0007	0.0000	0.0008	0.0007	0.0408

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

* Based on two (2) growing seasons per year

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

4	Bahia	REFLECTIONS ON SILVER LAKE, INC. FLA014332	0.0270	400	4.04	1.3677	0.4109	0.0003	0.0001	0.0120	0.0056	0.0000	0.0058	0.0008	0.0639
4	Bahia	DAMON UTILITIES INC AKA: CASA DEL LAGO FLA014334	0.0163	400	2.16	0.8568	0.2179	0.0001	0.0000	0.0189	0.0004	0.0001	0.0026	0.0004	0.0283
4	Bahia	BUTTONWOOD BAY UTILITIES, INC. FLA014348	0.0571	400	9.57	2.3061	1.1074	0.0001	0.0002	0.0169	0.0011	0.0001	0.0007	0.0013	0.0855
4	Bahia	Adelaide Shores FLA014358	0.0280	400	5.89	0.7929	0.1798	0.0002	0.0001	0.0078	0.0026	0.0000	0.0004	0.0006	0.0522
4	Bahia	TROPICAL HARBOR MHP WWTF FLA014371	0.0203	400	3.17	0.9722	0.3848	0.0001	0.0001	0.0052	0.0006	0.0000	0.0003	0.0005	0.0301
4	Bahia	Blue Septic Tank Service RMF FLA016189	3.8308	400	246.12	86.5121	32.9104	0.0000	0.0110	3.6544	0.1206	0.0152	0.0829	0.0557	8.0485
4	Bahia	LAKE PLACID NORTH FLA281484	0.2168	400	48.57	9.4976	1.6046	0.0006	0.0006	0.1609	0.0100	0.0015	0.0074	0.0056	0.7277
Annual Total		N/A	4.76	400	399.52	123.86	42.27	0.02	0.01	4.09	0.15	0.02	0.11	0.08	8.10
Cummulative Total			315.26		N/A	N/A	N/A	0.11	0.09	38.80	0.59	0.03	0.40	0.17	27.53

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

' Based on two (2) growing seasons per year

Florida Department of Environmental Protection

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

Agricultural Use Plan

1. Facility Name: *LAKE SUZY UTILITIES*

Facility Classification (check one from each column as appropriate)

- ☐ Domestic Wastewater Treatment Facility ☐ Type I ☐ New
- ☐ Residuals Management Facility ☐ Type II ☑ Existing
- ☐ Septage Management Facility ☑ Type III

FDEP Identification No *FLA011964*

Contact Person _____ Title _____

Phone *941629-2439* Fax _____

2. Quantity of Residuals Generated Yearly *2.36* dry tons (1 ton = 2000 lb) ☑ Actual (yearly data) ☐ Estimated

3. Residuals Characteristics (annual arithmetic average):

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	*6.33*	Copper	mg/Kg	4300	*234.00*
Total Phosphorus	%	N/A	*1.56*	Lead	mg/Kg	840	*16.30*
Total Potassium	%	N/A	*0.53*	Mercury	mg/Kg	57	*0.13*
Total Solids	%	N/A	*1.41*	Molybdenum	mg/Kg	75	*15.60*
pH	s.u.	N/A	*7.45*	Nickel	mg/Kg	420	*13.50*
Arsenic	mg/Kg	75	*4.82*	Selenium	mg/Kg	100	*9.22*
Cadmium	mg/Kg	85	*1.70*	Zinc	mg/Kg	7500	*1,130.00*

*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.

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

Describe the pathogen reduction method used: *Lime Stabilization*

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

☐ 1	☐ 3	☐ 5	☐ 7	☐ 9
☐ 2	☐ 4	☑ 6	☐ 8	☐ 10

Part II-Residuals Site Information.

1. Site Name: *Flint Ranch/ Manatee*

   Site Classification: *Agricultural*

   Site Address: *2634 North West Flint Road*

   City: *Arcadia* State: *FL* Zip Code: *34266*

   Site Coordinates Latitude *27* ° *12* ' *30* " **N** Longitude *82* ° *3* ' *30* " **W**

   Section(s): *36* Township *37S* Range: *22E* County: *Manatee*

   Road Directions to site: *I-75 to Clark Rd. Exit. East on Clark Rd. (also SR 72) 23 miles. Take left at NW Flint Road after DeSoto Co. line. Site is approx. 1/4 mile North of SR 72.*

   Site Owner: *Jerome Robert Flint*

   Site Manager (if different from owner): *Same*

   Owner/manager Address: *2634 NW Flint Road*

   City: *Arcadia* State: *FL* Zip Code: *34266*

   Phone: *(863)990-0935* Fax: *(863)990-0935*

2. Total Acreage of Site: *540* acres; Total Acreage to be applied *259.4* acres; (sum of application zones)

   Enter individual application zone acreages in the table in part III, item 2.

3. Site's pH *6.3*

4. Attach a County Section Aerial Map, indicating the boundaries of the site and delineating the boundary of each residuals application zone. The following information should be indicated on the map:

   The identification number for each application zone;

   Residuals storage facilities, if any on the site;

   Water supply wells on the site or within 500 feet of the site;

   Surface waters on the site or within 1000 feet of the site;and,

   Occupied buildings on the site or within 300 feet of the site.

   The boundary of each application zone shall be shown to conform to the following requirements:

   300 feet from buildings occupied by the general public (may be reduced to 100 feet if residuals are injected into the soil);

   1000 feet (setback area vegetated) from Class I water bodies, Outstanding Florida Waters, or Outstanding National Resource Waters;

   200 feet (setback area vegetated) from other surface waters, including wetlands, except canals or bodies or water used for irrigation, that are located completely within the site and will not discharge from the site (this distance may be reduced to 100 feet if the requirements of Rule 62-640.700(5)(a), F.A.C. are met);

   300 feet from any private potable water supply well or 500 feet from any public potable water supply well; and,

   200 feet from any visible evidence of subsurface fractures, solution cavities, sink holes, excavation core holes, abandoned wells or other natural or man-made conduits that could allow direct contamination of ground water.

   Site slopes shall not exceed 8%.

5. Describe how site use restrictions will be met in accordance with Rule 62-640.600(3), F.A.C.

   Class B residuals will be applied to this site with restricted public access. All live stock will be restricted from grazing for 30 days after last application

6. Attach Natural Resources Conservation Service maps demonstrating that the seasonal high ground water level is not within 2 feet of the ground surface for each application zone. Enter the seasonal high ground water level for each application zone in the table in Part III, Item 2. If the seasonal high ground water level will be within 2 feet of the surface or is undetermined, determine the ground water level in one or more representative locations in each application zone prior to each application of residuals. Indicate these locations on the map. If the seasonal high ground water level will be within 2 feet of the surface or is undetermined, describe what will be done with any residuals that would have been applied to the site (storage, alternate application sites, etc).

   Water table measurements are taken from a 5' long buried pipe. 2' above ground and 3' in the ground. If water level is 4 or more feet from the top of the pipe, the driver proceeds with the application. The pipe is moved from time to time to be closer to the application zone

7. Using an appropriate map such as a USGS topographic map, determine site slope and attach documentation of the slope determination procedure used to demonstrate that land application zone slopes do not exceed 8 percent. If slopes exceed 2 percent in one or more land application zones, attach a Conservation Plan prepared by or approved by the Natural Resources Conservation Service or a stormwater management plan prepared in accordance with Chapter 62-25, F.A.C., by an engineer registered in Florida. The plan shall demonstrate that suitable soil infiltration rates and stormwater control measures exist at the site to retain runoff generated by the 10-year recurrence interval 01-hour duration storm event. Berms shall be placed for this purpose if necessary.

   Site Slope: *0* %

8. If residuals will be stored temporarily (30 days or less) at the application site, describe the provisions for storage:

   62-640.700(3) Storage of cake residuals may exceed 30 days to accomodate agricultural operations.

   If residuals will be stored for longer than 30 days (but not more than 2 years), attach documentation demonstrating that: a) the storage facilities at the site are adequate for the rates of residuals generation by permitted wastewater facilities sending residuals to the site; b) all of the residuals stored at the site, up to the capacity of the on-site storage facilities, can be land applied without resulting in an exceedence of cumulative loading limits or agronomic rates; and c) a longer storage period is needed because of agricultural operations or climatic factors

9. Describe the incorporation method and application technique to be used: *Spreading*

   Surface land application. The equipment used is a tanker trailer with and open valve, draining in the approved application zones

10 If "other solids" as defined in Rule 62-640.200, F.A.C., will be applied to the residuals application site, describe the intended beneficial use and method of application:

11 Is this site located in an area identified by statute or by rule of the Department of Environmental Protection as being subject to restrictions on phosphorus loadings? ☑ Yes ☐ No

   If yes, attach: a) documentation of the characterization of soil phosphorus as determined by site-specific soil testing including results of initial soil testing performed before the first application of residuals to the site and a description of how subsequent soil testing will be accomplished after the completion of each crop cycles or growing seasons but before residuals are applied for the next crop cycle or growing season; b) a description of how the phosphorus content of all sources of phosphorus applied to the site will be accounted for in establishing residuals application rates at the site; c) a determination of the agricultural phosphorus needs of crops grown at the site; d) a description of the adequacy of measures that will be used to minimize or prevent water quality impacts that could result from sediment transport from residuals application areas to surface waters; and e) a description of the capacity of the soil to hold phosphorus.

Part III-Agricultural Site Information

1. Describe how the use of residuals on this site is part of planned agricultural operations.

   All residuals applied to this site will be part of sites agricultural operations Land owner will have scheduled hay cutting

2. Determine the maximum allowable residuals nitrogen application rate using the nitrogen demand of the site vegetation.

   a Mark the following as appropriate:

   Basis for determination of nitrogen demand:

   ☐ Nitrogen loading table in Rule 62-640.750(2)(a), F.A.C.
   ☑ Recommendations of Natural Resources Conservation Service or Institute of Food and Agricultural Sciences (attach documentation)
   ☐ Other; identify (attach documentation)

   Method used to determine maximum residuals nitrogen application rate:

   ☐ Rule 62-640.750(2)(b)1., F.A.C. - The calculation method in Chapter 7, Environmental Protection Agency, Process Design Manual for Land Application of Sewage Sludge and Domestic Septage.
   ☑ Rule 62-640.750(2)(b)2., F.A.C. - NRCS Calculation Required BY Manatee County

   Enter the maximum residuals nitrogen application rate in the table in part b. Attach a sheet(s) showing the calculations performed for the rate as well as the other information entered in the table. Clearly indicate how the nitrogen assimilation rates are weighted for different crops grown on the same zones at the same time or consecutively. Also indicate how contributions of nitrogen from other applied sources are accounted for in the calculations.

b. Application Zone

Application Zone ID #	1a	1b	1c	2
Acreage of Application Zone	47.3	63.9	17.3	44.7
Crop(s) grown in application zone	Bahia	Bahia	Bahia	Bahia
Nitrogen Demand in lbs/ac/yr	100	100	100	100
Max Residuals N appl. rate (lbs/ac/yr)*	0.00	260.00	0.00	50.00
Max Residuals P appl. rate (lbs/ac/yr)				
Other facilities land applying residuals	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963
Date of initial application				
Cumulative metals loadings to date				
Arsenic	0.12	0.04	0.11	0.08
Cadmium	0.12	0.05	0.09	0.37
Copper	27.59	14.69	27.68	9.45
Lead	0.70	0.40	0.71	0.76
Mercury	0.01	0.04	0.02	0.02
Nickel	0.41	0.30	0.51	0.63
Selenium	0.11	0.10	0.22	0.16
Zinc	24.56	11.70	24.42	18.14
Estimated remaining life (yrs)	48.00	91.00	48.00	92.00

** Two growing seasons per year*

b. Application Zone

Application Zone ID #	3	4	5	6
Acreage of Application Zone	14	25.2	20.4	26.6
Crop(s) grown in application zone	Bahia	Bahia	Bahia	Bahia
Nitrogen Demand in lbs/ac/yr	147.5	147.5	100	147.5
Max Residuals N appl. rate (lbs/ac/yr)*	260.00	260.00	165.00	255.00
Max Residuals P appl. rate (lbs/ac/yr)				
Other facilities land applying residuals	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963	FLA014348 FLA014321 FLA188174 FLA017028 FLA014607 FL0027511 FLA011953 FLA011954 FLA011955 FLA011956 FLA011957 FLA011959 FLA011960 FLA011961 FLA011962 FLA011963
Date of initial application	5/6/2009		1/5/2005	2/14/2005
Cumulative metals loadings to date				
Arsenic	0.00	0.10	0.13	0.11
Cadmium	0.00	0.09	0.33	0.05
Copper	0.28	37.41	22.28	12.80
Lead	0.02	0.52	0.82	0.44
Mercury	0.00	0.03	0.02	0.01
Nickel	0.01	0.35	0.56	0.24
Selenium	0.01	0.12	0.19	0.14
Zinc	0.76	24.43	27.05	14.53
Estimated remaining life (yrs)	3,305.00	35.00	60.00	104.00

** Two growing seasons per year*

Part IV - Reclamation Site Information (if applicable)

1. Describe the circumstances that have caused damage to the land and resulted in the need to perform land reclamation:

2. Describe the existing condition of the land:

3. Describe how the use of residuals on this site will be part of planned land reclamation activities.

4. Describe grading to be performed: (All site grading shall be completed before residuals application begins.)

5. Describe the method of incorporation into the soil that will be used: (The applied material shall be incorporated into the soil the same day as application, except for Class A residuals.)

6. Describe the type of vegetation to be established and the schedule for planting: (Seed or turf-forming grass shall be planted as soon as possible, but in no case later than three months after the last application of residuals.)

7. Describe the anticipated application quantity (dry tons/acre): (The maximum allowable application quantity is 50 dry tons/acre with such application to be accomplished one time within a one-year period on any acre of the site.)

Part V - Certifications

Permittee

The permittee certifies that he/she is familiar with and shall comply with the applicable requirements of Chapter 62-640, F.A.C.; shall allow land application of his/her residuals only on a site for which an Agricultural Use Plan has been approved by the Department; and that the residuals to be land applied shall meet the general criteria in Rule 62-640.700(1), F.A.C. and shall be treated to the standards as identified in this plan. The permittee also certifies that he/she shall maintain a record of the total quantity of residuals land applied at this site and will file with the Department an annual summary of the residuals applied on this site, and that the residuals hauler and application site owner or manager have been made aware of the provisions of this rule.

Signature of Permittee Title Date

Site Owner

The site owner certifies that he/she has been provided a copy of Chapter 62-640, F.A.C., and that the site information provided in this plan is accurate to the best of his/her knowledge.

Signature of Site Owner Title Date

NRCS Natural Resources Conservation Service
USDA UNITED STATES DEPARTMENT OF AGRICULTURE
6942 Professional Parkway East • Sarasota, FL 34240 • phone (941) 907-0011 • fax 941-907-0015

February 4, 2010

Mr. Jerry Flint
Flint Ranch (Manatee County)

Ref: New landspreading tables

Mr. Flint:

The Conservation Plan for the landspreading of residuals at Flint Ranch should be amended to reflect the attached application rates table dated 2/4/2010. This table replaces any previous tables and should be included in your copy of the Conservation Plan. These new rates will be in effect for a period of one (1) year beginning on April 9, 2010 and continuing to April 8, 2011 unless otherwise specified by EMD.

These new rates are based on the Phosphorus Index (P Index) determinations to evaluate the potential for phosphorus movement off site. **New rates must be calculated each year prior to the renewal of the landspreading permit and will reflect current soil tests.**

You may contact John Noll or our office at (941) 907-0011 if you have any questions.

Sincerely,

John F. Creighton
District Conservationist
Natural Resources and Conservation Service

JFC/jmn

cc: John Noll, NRCS
Mike Tucker, Blue Environmental
Scott Browning, EMD

FLINT APPLICATION RATES TABLE

Manatee County

2/4/2010

FIELD #	Net Acreage	N Rate (lbs N/ac/Yr)	Total N (lbs N/yr)
1A	47.3	0	**0**
1B	63.9	260	**16,614**
1C	17.3	0	**0**
2	44.7	50	**2,235**
3	14.0	260	**3,640**
4	25.2	260	**6,552**
5	20.4	165	**3,366**
6	26.6	255	**6,783**

Total N = 39,190 lbs/yr

Due to high P loss potential, additional application of biosolids should be temporarily withheld from field 1A pending further soil tests, 1C should be temporarily withheld due to a lack of data.