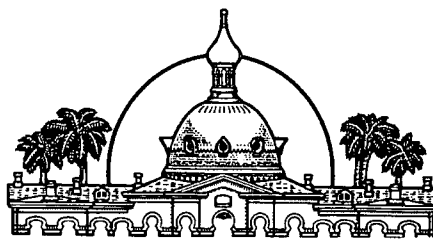


41143



Hillsborough County
Florida

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Patricia G. Bean

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APR 08 2010

Southwest District

April 6, 2010

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Solid Waste Section
13051 Telecom Parkway
Temple Terrace, FL 33637

Re: **Southeast County Landfill
Leachate Treatment Plant
Effluent Analytical Data – First Quarter (January - March, 2010)**

Dear Ms. Pelz:

In accordance with the Operation Permit No. 35435-014-SO/01, the Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for the first quarter effluent sampling of the leachate treatment plant at the Southeast County Landfill (SCLF).

The referenced permit requires the SWMD to sample the leachate effluent and record the pH value on a weekly basis. Daily effluent pH readings from the leachate plant during the three month period ranged from 7.6– 8.3 pH units. The permit also requires that a monthly sample of the effluent be collected and analyzed for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), and Nitrate.

On January 6, February 3, and March 3, 2010, the SWMD collected the required effluent samples from the dedicated effluent sampling port at the treatment plant. The monthly samples were analyzed by our contracted laboratory, Test America, Inc. for the parameters listed above. The complete analytical data report sheets are provided within this letter report for your technical review.

Nitrate values were below detection limits (BDL) during each month of this monitoring period. In addition, TDS values were observed at concentrations of 6,300 mg/l, 6,100 mg/l, and 5,800

Ms. Susan Pelz
April 6, 2010
Page 2

mg/l and COD values were observed at 750 mg/l, 530 mg/l and 460 mg/l, respectively.

Should you have any questions or comments concerning the information provided in this submittal, please feel free to contact me at (813) 276-2908 or David Adams at (813) 276-2944.

Sincerely,



Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

PVB/mdt
Enclosures

xc: Larry Ruiz, SWMD
David Adams, P.G., SWMD
Ron Cope, EPC

G:enviro/projects/self/leachate plant/ntp-effluent-1stqtr2010.doc

Mr. David S Adams
Hillsborough County
Solid Waste Management Department
601 East Kennedy Blvd
24th Floor County Center
Tampa, FL 33601

Job Number: 660-33241-2

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-33241-3

Date Sampled: 01/06/2010 1105
Date Received: 01/06/2010 1500
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	01/06/2010 1105	
Field pH	8.07	SU			1.0
Field Temperature	12.93	Degrees C			1.0
Oxygen, Dissolved	7.59	mg/L			1.0
Specific Conductance	8461	umhos/cm			1.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33241-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-33241-3

Date Sampled: 01/06/2010 1105
 Date Received: 01/06/2010 1500
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: SM 5210B Biochemical Oxygen Demand	170	mg/L	15	20	10
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	750	mg/L	10	20	1.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33241-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-33241-3

Date Sampled: 01/06/2010 1105
 Date Received: 01/06/2010 1500
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	6300	mg/L	50	50	1.0
Method: SM 2540D Total Suspended Solids	34	mg/L	1.0	1.0	1.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33241-1

Client Sample ID: Leachate Effluent Equipment Blank
 Lab Sample ID: 660-33241-4

Date Sampled: 01/06/2010 1100
 Date Received: 01/06/2010 1500
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: SM 5210B Biochemical Oxygen Demand	1.5 U	mg/L	1.5	2.0	1.0
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33241-1

Client Sample ID: Leachate Effluent Equipment Blank
Lab Sample ID: 660-33241-4

Date Sampled: 01/06/2010 1100
 Date Received: 01/06/2010 1500
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-33241-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC/MS Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-33241-1

Lab Section	Qualifier	Description
General Chemistry	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33654-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-33654-1

Date Sampled: 02/03/2010 1250
 Date Received: 02/03/2010 1440
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: SM 5210B Biochemical Oxygen Demand	15 U	mg/L	15	20	10
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	530	mg/L	20	40	2.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33654-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-33654-1

Date Sampled: 02/03/2010 1250
 Date Received: 02/03/2010 1440
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	02/03/2010 1250	
Field pH	7.86	SU			1.0
Field Temperature	21.40	Degrees C			1.0
Oxygen, Dissolved	7.53	mg/L			1.0
Specific Conductance	10570	umhos/cm			1.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
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 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33654-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-33654-1

Date Sampled: 02/03/2010 1250
 Date Received: 02/03/2010 1440
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	6100	mg/L	50	50	1.0
Method: SM 2540D Total Suspended Solids	22	mg/L	1.0	1.0	1.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33654-1

Client Sample ID: Equipment Blank 33654
Lab Sample ID: 660-33654-2

Date Sampled: 02/03/2010 1240
 Date Received: 02/03/2010 1440
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: SM 5210B Biochemical Oxygen Demand	1.5 U	mg/L	1.5	2.0	1.0
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-33654-1

Client Sample ID: Equipment Blank 33654
 Lab Sample ID: 660-33654-2

Date Sampled: 02/03/2010 1240
 Date Received: 02/03/2010 1440
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C			Date Analyzed: 02/09/2010 1104		
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
Method: SM 2540D			Date Analyzed: 02/08/2010 1241		
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-33654-1

Lab Section	Qualifier	Description
General Chemistry	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.

Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
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 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-34151-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-34151-1

Date Sampled: 03/03/2010 1130
 Date Received: 03/03/2010 1455
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: SM 5210B Biochemical Oxygen Demand	1.5 U	mg/L	1.5	2.0	1.0
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	460	mg/L	10	20	1.0

Mr. David S Adams
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Solid Waste Management Department
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Tampa, FL 33601

Job Number: 660-34151-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-34151-1

Date Sampled: 03/03/2010 1130
Date Received: 03/03/2010 1455
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	03/03/2010 1130	
Field pH	8.04	SU			1.0
Field Temperature	16.80	Degrees C			1.0
Oxygen, Dissolved	6.00	mg/L			1.0
Specific Conductance	8484	umhos/cm			1.0

Mr. David S Adams
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24th Floor County Center
Tampa, FL 33601

Job Number: 660-34151-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-34151-1

Date Sampled: 03/03/2010 1130
Date Received: 03/03/2010 1455
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5800	mg/L	25	25	1.0
Method: SM 2540D Total Suspended Solids	11	mg/L	1.0	1.0	1.0

Mr. David S Adams
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 Solid Waste Management Department
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Job Number: 660-34151-1

Client Sample ID: Equipment Blank
 Lab Sample ID: 660-34151-2

Date Sampled: 03/03/2010 1125
 Date Received: 03/03/2010 1455
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: SM 5210B Biochemical Oxygen Demand	1.5 U	mg/L	1.5	2.0	1.0
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

Mr. David S Adams
Hillsborough County
Solid Waste Management Department
601 East Kennedy Blvd
24th Floor County Center
Tampa, FL 33601

Job Number: 660-34151-1

Client Sample ID: Equipment Blank
Lab Sample ID: 660-34151-2

Date Sampled: 03/03/2010 1125
Date Received: 03/03/2010 1455
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-34151-1

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
General Chemistry	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.