

Hillsborough County  
Florida

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Patricia G. Bean

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October 10, 2006

Dept. of Environmental  
Protection

OCT 11 2006

Southwest District

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 – Third Quarter (July - September, 2006)**

Dear Ms. Pelz:

In accordance with Specific Condition No. 32(b) of the Operation Permit No. 35435-006-SO, the Hillsborough County Solid Waste Management Department (SWMD) is pleased to provide the analytical data for the third 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 these three months ranged from 8.19 – 8.81 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 July 5, August 2, and September 5, 2006, 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, Severn Trent Laboratories, Inc. for the parameters listed above. Analytical data sheets are provided within this report for your technical review.

Nitrate values observed during this monitoring period were 0.73 milligrams per liter (mg/l) in July, and below detection limits in August and September. TDS values were observed during these months at concentrations of 5,700 mg/l, 5,600 mg/l, and 5,900 mg/l, respectively.

Post Office Box 1110 · Tampa, Florida 33601


Web Site: [www.hillsboroughcounty.org](http://www.hillsboroughcounty.org)

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Ms. Susan Pelz  
October 10, 2006  
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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  
Daniel Orlosky, SWMD  
Ron Cope, EPC

enviro/projects/self/leachate plant/ltp-effluent-3rdqtr2006.doc

Mr. Jim Clayton  
Hillsborough County  
Solid Waste Management Department  
PO BOX 1110  
24th Floor  
Tampa, FL 33601

Job Number: 660-9907-1

Client Sample ID: LEACHATE EFFLUENT Lab Sample ID: 660-9907-1

Date Sampled: 07/05/2006 1215  
Date Received: 07/05/2006 1545  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Prepared:		Date Analyzed: 07/05/2006 1215	
Field pH	8.44	SU		1.0
Field Temperature	34.74	Degrees C		1.0
Oxygen, Dissolved	5.31	mg/L		1.0
Specific Conductance	19986	umhos/cm		1.0

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Job Number: 660-9907-1

**Client Sample ID: LEACHATE EFFLUENT Lab Sample ID: 660-9907-1**

Date Sampled: 07/05/2006 1215  
Date Received: 07/05/2006 1545

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2	Date Prepared:		Date Analyzed: 07/07/2006	0654	
Nitrate Nitrogen	0.73	mg/L	0.10	0.50	1.0

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Job Number: 660-9907-1

**Client Sample ID: LEACHATE EFFLUENT Lab Sample ID: 660-9907-1**

Date Sampled: 07/05/2006 1215  
Date Received: 07/05/2006 1545

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
<b>Method: 160.1</b>	Date Prepared:		Date Analyzed: 07/11/2006	1101	
Total Dissolved Solids	5700	mg/L	25	25	1.0
<b>Method: 160.2</b>	Date Prepared:		Date Analyzed: 07/10/2006	1521	
Total Suspended Solids	27	mg/L	1.0	1.0	1.0
<b>Method: 405.1</b>	Date Prepared:		Date Analyzed: 07/06/2006	1416	
Biochemical Oxygen Demand	5.1	mg/L	2.0	2.0	1.0
<b>Method: 5220C</b>	Date Prepared:		Date Analyzed: 07/13/2006	1800	
Chemical Oxygen Demand	320	mg/L	20	20	1.0

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Hillsborough County  
Solid Waste Management Department  
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24th Floor  
Tampa, FL 33601

Job Number: 660-9907-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 660-9907-2

Date Sampled: 07/05/2006 1205

Date Received: 07/05/2006 1545

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2	Date Prepared:		Date Analyzed: 07/07/2006	0654	
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0

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Job Number: 660-9907-1

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 660-9907-2**

Date Sampled: 07/05/2006 1205

Date Received: 07/05/2006 1545

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
<b>Method: 160.1</b>	Date Prepared:		Date Analyzed: 07/10/2006	1404	
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Prepared:		Date Analyzed: 07/10/2006	1521	
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0
<b>Method: 405.1</b>	Date Prepared:		Date Analyzed: 07/06/2006	1416	
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	1.0
<b>Method: 5220C</b>	Date Prepared:		Date Analyzed: 07/13/2006	1800	
Chemical Oxygen Demand	20 U	mg/L	20	20	1.0

**DATA REPORTING QUALIFIERS**

Client: Hillsborough County

Job Number: 660-9907-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
General Chemistry	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. Jim Clayton  
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Job Number: 660-10482-1

**Client Sample ID: Leachate Eff**  
**Lab Sample ID: 660-10482-1**

Date Sampled: 08/02/2006 1020  
Date Received: 08/02/2006 1535  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Analyzed:	08/02/2006 1020		
Field pH	8.14	SU		1.0
Field Temperature	33.43	Degrees C		1.0
Specific Conductance	10608	umhos/cm		1.0

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Job Number: 660-10482-1

**Client Sample ID: Leachate Eff**  
**Lab Sample ID: 660-10482-1**

Date Sampled: 08/02/2006 1020  
Date Received: 08/02/2006 1535  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2	Date Analyzed:	08/04/2006	0722		
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0

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Job Number: 660-10482-1

**Client Sample ID: Leachate Eff**  
**Lab Sample ID: 660-10482-1**

Date Sampled: 08/02/2006 1020  
Date Received: 08/02/2006 1535  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	08/08/2006	1718		
Total Dissolved Solids	5600	mg/L	25	25	1.0
<b>Method: 160.2</b>	Date Analyzed:	08/03/2006	1650		
Total Suspended Solids	58	mg/L	1.1	1.1	1.0
<b>Method: 405.1</b>	Date Analyzed:	08/04/2006	1000		
Biochemical Oxygen Demand	7.5	mg/L	2.0	2.0	1.0
<b>Method: 5220C</b>	Date Analyzed:	08/15/2006	1100		
Chemical Oxygen Demand	410	mg/L	20	20	1.0

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Job Number: 660-10482-1

Client Sample ID: Equipment Blank  
Lab Sample ID: 660-10482-2

Date Sampled: 08/02/2006 1015  
Date Received: 08/02/2006 1535  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2	Date Analyzed:	08/04/2006	0722		
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0

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Job Number: 660-10482-1

**Client Sample ID: Equipment Blank**  
**Lab Sample ID: 660-10482-2**

Date Sampled: 08/02/2006 1015  
Date Received: 08/02/2006 1535  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	08/03/2006	1545		
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Analyzed:	08/03/2006	1650		
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0
<b>Method: 405.1</b>	Date Analyzed:	08/04/2006	1000		
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	1.0
<b>Method: 5220C</b>	Date Analyzed:	08/15/2006	1100		
Chemical Oxygen Demand	20 U	mg/L	20	20	1.0

**DATA REPORTING QUALIFIERS**

Client: Hillsborough County

Job Number: 660-10482-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
General Chemistry	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.

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Job Number: 660-10989-1

**Client Sample ID: LEACHATE EFF**  
**Lab Sample ID: 660-10989-1**

Date Sampled: 09/05/2006 1200  
Date Received: 09/05/2006 1555  
Client Matrix: Water  
Percent Solids:

Analyte	Result/Qualifier	Unit	NONE	Dilution
Method: Field Sampling	Date Analyzed:	09/05/2006 1200		
Field pH	8.18	SU		1.0
Field Temperature	32.48	Degrees C		1.0
Oxygen, Dissolved	4.74	mg/L		1.0
Specific Conductance	10422	umhos/cm		1.0

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Job Number: 660-10989-1

**Client Sample ID: LEACHATE EFF**  
**Lab Sample ID: 660-10989-1**

Date Sampled: 09/05/2006 1200  
Date Received: 09/05/2006 1555  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2	Date Analyzed:	09/07/2006	0738		
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0



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Job Number: 660-10989-1

**Client Sample ID: LEACHATE EFF**  
**Lab Sample ID: 660-10989-1**

Date Sampled: 09/05/2006 1200  
Date Received: 09/05/2006 1555  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	09/07/2006	1911		
Total Dissolved Solids	5900	mg/L	25	25	1.0
<b>Method: 160.2</b>	Date Analyzed:	09/06/2006	1758		
Total Suspended Solids	42	mg/L	1.0	1.0	1.0
<b>Method: 405.1</b>	Date Analyzed:	09/06/2006	1740		
Biochemical Oxygen Demand	3.0	mg/L	2.0	2.0	1.0
<b>Method: 5220C</b>	Date Analyzed:	09/07/2006	1515		
Chemical Oxygen Demand	240	mg/L	20	20	1.0

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Job Number: 660-10989-1

**Client Sample ID: EQUIPMENT BLANK**  
**Lab Sample ID: 660-10989-2**

Date Sampled: 09/05/2006 1155  
Date Received: 09/05/2006 1555  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2	Date Analyzed:	09/07/2006	0738		
Nitrate Nitrogen	0.10 U	mg/L	0.10	0.50	1.0

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Job Number: 660-10989-1

**Client Sample ID: EQUIPMENT BLANK**  
**Lab Sample ID: 660-10989-2**

Date Sampled: 09/05/2006 1155  
Date Received: 09/05/2006 1555  
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
<b>Method: 160.1</b>	Date Analyzed:	09/06/2006	1658		
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
<b>Method: 160.2</b>	Date Analyzed:	09/06/2006	1758		
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0
<b>Method: 405.1</b>	Date Analyzed:	09/06/2006	1740		
Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	1.0
<b>Method: 5220C</b>	Date Analyzed:	09/07/2006	1515		
Chemical Oxygen Demand	20 U	mg/L	20	20	1.0

**DATA REPORTING QUALIFIERS**

Client: Hillsborough County

Job Number: 660-10989-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
General Chemistry	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.