



**LEE COUNTY**  
SOUTHWEST FLORIDA

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December 15, 2006

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Fort Myers, FL 33902-2549

DEC 20 2006

Donald D. Stilwell  
County Manager

Re: Lee County Resource Recovery Facility, PA 90-30 SA1  
Fourth Quarter, 2006 - Ground Water Monitoring Results

**SOUTH DISTRICT**

David M. Owen  
County Attorney

Diana M. Parker  
County Hearing  
Examiner

Dear Mr. Barbaccia:

Enclosed please find the laboratory results for the ground water sampling conducted at the Lee County Resource Recovery Facility on October 30, 2006. Ground water monitoring wells MW-1D, MW-1S, MW-3D, MW-3S, MW-5D, MW-5S, MW-6S, and MW-6D were sampled and analyzed in accordance with the approved ground water monitoring plan submitted to FDEP in August 1992 and modified on April 3, 1996.

Ground water from all wells except for MW-1D and MW-5D exceeded the secondary drinking water standard for Iron established in Rule 62-550, F.A.C. Ground water from MW-3D, MW-5S, MW-5D and MW-6D exceeded the secondary drinking water standard for total dissolved solids established in Rule 62-550, F.A.C. These levels are consistent with the iron and TDS levels found historically in the shallow aquifer.

Ground water from MW-3D exceeded the secondary drinking water standard for chloride established in Rule 62-550, F.A.C. As explained to the Department in previous ground water monitoring data transmittals, the likely source of chlorides at MW-3D is an old well that was previously free-flowing on the property until the County abandoned the well in June 2003. The well depth, which was measured when the well was plugged, was approximately 500 feet, indicating the well was likely completed in the Lower Hawthorn aquifer. The Lower Hawthorn aquifer in this area generally exhibits elevated concentrations of TDS, sodium, chloride, specific conductance and sulfate.

Ground water from MW-3S exceeded the primary drinking water standard for arsenic established in Rule 62-550, F.A.C. Previous monitoring data revealed that last time the arsenic standard was exceeded at MW-3S was in October 2005 but then fell below the standard in subsequent events until the most recent sampling in October 2006. That the levels of arsenic have varied above and below the standard over time indicates that arsenic may be naturally occurring, leaching into the aquifer at times due to varying oxygen and/or pH levels.

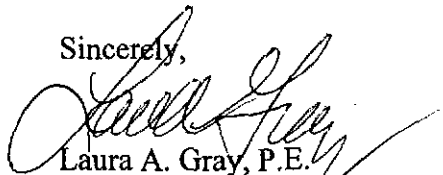
Mr. Philip Barbaccia  
December 15, 2006  
Page 2 of 2

Finally, ground water from MW-5S exceeded the secondary drinking water standard for sulfate established in 62-550, F.A.C. A review of historical data for MW-5S indicates that the sulfate standard was exceeded in 2003 and again in early 2006, however, the sulfate concentration measured between these events was below the standard. Further, sulfate concentrations measured at MW-4S, which is located upgradient of MW-5S and downgradient of the solid waste facility, have consistently been below the standard indicating the source of elevated sulfate at MW-5S is not from the solid waste facility. No other parameters have been measured at MW-5S at levels that would cause concern.

The Solid Waste Division will continue to monitor the ground water at the facility in accordance with the approved ground water monitoring plan and will continue to observe the water quality trends at all wells. The next monitoring event is scheduled for January 2007.

Please call me with any questions you may or to discuss the information provided in this transmittal.

Sincerely,



Laura A. Gray, P.E.  
Engineering Manager  
Solid Waste Division

Attachment

Cc: Lindsey J. Sampson, P.E.  
Keith Howard  
Jody Howard, Coventa  
File II E107

DEC 20 2006  
SOUTH DISTRICT

# Laboratory Results

## Lee County Environmental Laboratory

60-2 Danley Drive  
Fort Myers, FL 33907  
239-278-7070



To: Laura Gray  
Lee County Solid Waste

Report Date: 11/16/2006

Below are the results of samples submitted to this laboratory on: 10/30/2006

Laboratory ID	AC01395	Collection date and time	10/30/2006 10:39 AM
Location Code	WTE-1D	Sample Collector	JOHN REEKIE
Sample Description	Waste to Energy M.W. # 1-D		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	1.0	U	µg/L	1.0	10/31/2006	10:00 AM	SM20 3113 B
CL	Chloride titrimetric Argentometric	96.0		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
CONDF	Specific Conductance, 25°C, Field	930		µmhos/cm	1	10/30/2006	10:39 AM	EPA 120.1
ELEV	Elevation, Water Table	10.06		Feet NGVD		10/30/2006	10:39 AM	FDEP-SOP-001/01
FE	Iron by flame AA	0.04	U	mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.438		mg/L as N	0.014	11/1/2006	10:35 AM	EPA 350.1
PHF	pH, Field (electrometric)	7.11		units	0.1	10/30/2006	10:39 AM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/30/2006	10:39 AM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/16/2006	9:04 AM	SM20 3113 B
SO4_IC	Sulfate	44.3		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	543		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	0.54		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	5.84		mg/L	0.5	10/31/2006	11:05 AM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

SOUTH DISTRICT  
DEC 20 2006



Laboratory ID	AC01396	Collection date and time	10/30/2006 9:55 AM
Location Code	WTE-1S	Sample Collector	JOHN REEKIE
Sample Description	Waste to Energy M.W. # 1-S		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	3.97	I	µg/L	1.0	10/31/2006	10:00 AM	SM20 3113 B
CL	Chloride titrimetric Argentometric	80.0		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
CONDF	Specific Conductance, 25°C, Field	678		µmhos/cm	1	10/30/2006	9:55 AM	EPA 120.1
ELEV	Elevation, Water Table	19.58		Feet NGVD		10/30/2006	9:55 AM	FDEP-SOP-001/01
FE	Iron by flame AA	2.8		mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.365		mg/L as N	0.014	11/1/2006	10:35 AM	EPA 350.1
PHF	pH, Field (electrometric)	6.78		units	0.1	10/30/2006	9:55 AM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/30/2006	9:55 AM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B
SO4_IC	Sulfate	21.5		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	439		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	0.57		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	11.5		mg/L	0.5	10/31/2006	11:05 AM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Laboratory ID	AC01397	Collection date and time	10/31/2006 12:28 PM
Location Code	WTE-3D	Sample Collector	JOHN REEKIE
Sample Description	Waste to Energy M.W. # 3-D		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	1.18	I	µg/L	1.0	10/31/2006	1:15 PM	SM20 3113 B
CL	Chloride titrimetric Argentometric	386		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
CONDF	Specific Conductance, 25°C, Field	1970		µmhos/cm	1	10/31/2006	12:28 PM	EPA 120.1
DIGESTW	Metals digest w/HNO3, water samples	Completed				11/1/2006	8:00 AM	SM 3030 D, E
ELEV	Elevation, Water Table	17.12		Feet NGVD		10/31/2006	12:28 PM	FDEP-SOP-001/01
FE	Iron by flame AA	0.71		mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.552		mg/L as N	0.014	11/2/2006	10:32 AM	EPA 350.1
PHF	pH, Field (electrometric)	7.16		units	0.1	10/31/2006	12:28 PM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/31/2006	12:28 PM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B



Laboratory ID	AC01397	Collection date and time	10/31/2006 12:28 PM
Location Code	WTE-3D	Sample Collector	JOHN REEKIE
Sample Description	Waste to Energy M.W. # 3-D		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
SO4_IC	Sulfate	127		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	1130		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	0.65		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	4.64		mg/L	0.5	10/31/2006	1:15 PM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Laboratory ID	AC01398	Collection date and time	10/31/2006 11:23 AM
Location Code	WTE-3S	Sample Collector	JOHN REEKIE
Sample Description	Waste to Energy M.W. # 3-S		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	16.4		µg/L	1.0	10/31/2006	1:15 PM	SM20 3113 B
CL	Chloride titrimetric Argentometric	27.0		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
CONDF	Specific Conductance, 25°C, Field	634		µmhos/cm	1	10/31/2006	11:23 AM	EPA 120.1
DIGESTW	Metals digest w/HNO3, water samples	Completed				11/1/2006	8:00 AM	SM 3030 D, E
ELEV	Elevation, Water Table	18.48		Feet NGVD		10/31/2006	11:23 AM	FDEP-SOP-001/01
FE	Iron by flame AA	7.46		mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.04	I	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	1.33		mg/L as N	0.014	11/2/2006	10:32 AM	EPA 350.1
PHF	pH, Field (electrometric)	6.87		units	0.1	10/31/2006	11:23 AM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/31/2006	11:23 AM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B
SO4_IC	Sulfate	50.2		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	399		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	1.5		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	8.90		mg/L	0.5	10/31/2006	1:15 PM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B



Laboratory ID	AC01399	Collection date and time	10/31/2006 10:40 AM
Location Code	WTE-5D	Sample Collector	JOHN REEKIE
Sample Description	Waste to Energy M.W. # 5-D		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	1.0	U	µg/L	1.0	10/31/2006	1:15 PM	SM20 3113 B
CL	Chloride titrimetric Argentometric	142		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
CONDf	Specific Conductance, 25°C, Field	1110		µmhos/cm	1	10/31/2006	10:40 AM	EPA 120.1
ELEV	Elevation, Water Table	16.42		Feet NGVD		10/31/2006	10:40 AM	FDEP-SOP-001/01
FE	Iron by flame AA	0.04	U	mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.380		mg/L as N	0.014	11/2/2006	10:32 AM	EPA 350.1
PHF	pH, Field (electrometric)	7.15		units	0.1	10/31/2006	10:40 AM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/31/2006	10:40 AM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B
SO4_IC	Sulfate	57.3		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	657		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	0.49		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	5.04		mg/L	0.5	10/31/2006	1:15 PM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Laboratory ID	AC01400	Collection date and time	10/30/2006 1:49 PM
Location Code	WTE-5S	Sample Collector	YAMILLIE NOA
Sample Description	Waste to Energy M.W. # 5-S		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	1.0	U	µg/L	1.0	10/31/2006	10:00 AM	SM20 3113 B
CL	Chloride titrimetric Argentometric	51.0		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
CONDf	Specific Conductance, 25°C, Field	1440		µmhos/cm	1	10/30/2006	1:49 PM	EPA 120.1
DIGESTW	Metals digest w/HNO3, water samples	Completed				11/1/2006	8:00 AM	SM 3030 D, E
ELEV	Elevation, Water Table	18.39		Feet NGVD		10/30/2006	1:49 PM	FDEP-SOP-001/01
FE	Iron by flame AA	3.28		mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.719		mg/L as N	0.014	11/1/2006	10:35 AM	EPA 350.1
PHF	pH, Field (electrometric)	6.59		units	0.1	10/30/2006	1:49 PM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/30/2006	1:49 PM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B



Laboratory ID	AC01400	Collection date and time	10/30/2006 1:49 PM
Location Code	WTE-5S	Sample Collector	YAMILLIE NOA
Sample Description	Waste to Energy M.W. # 5-S		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
SO4_IC	Sulfate	350		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	776		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	1.7		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	19.9		mg/L	0.5	10/31/2006	11:05 AM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Laboratory ID	AC01401	Collection date and time	10/30/2006 2:26 PM
Location Code	WTE-6D	Sample Collector	YAMILLIE NOA
Sample Description	Waste to Energy M.W. # 6-D		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	1.0	U	µg/L	1.0	10/31/2006	10:00 AM	SM20 3113 B
CL	Chloride titrimetric Argentometric	190		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
CONDF	Specific Conductance, 25°C, Field	1010		µmhos/cm	1	10/30/2006	2:26 PM	EPA 120.1
DIGESTW	Metals digest w/HNO3, water samples	Completed				11/1/2006	8:00 AM	SM 3030 D, E
ELEV	Elevation, Water Table	16.03		Feet NGVD		10/30/2006	2:26 PM	FDEP-SOP-001/01
FE	Iron by flame AA	1.27		mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	1.56		mg/L as N	0.014	11/1/2006	10:35 AM	EPA 350.1
PHF	pH, Field (electrometric)	6.86		units	0.1	10/30/2006	2:26 PM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/30/2006	2:26 PM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B
SO4_IC	Sulfate	37.8		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	669		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	1.7		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	22.1		mg/L	0.5	10/31/2006	11:05 AM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Laboratory ID	AC01402	Collection date and time	10/30/2006 12:40 PM
Location Code	WTE-6S	Sample Collector	YAMILLIE NOA
Sample Description	Waste to Energy M.W. # 6-S		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
ASUGL	Arsenic, AA furnace technique	1.0	U	µg/L	1.0	10/31/2006	10:00 AM	SM20 3113 B
CL	Chloride titrimetric Argentometric	40.5		mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
COND	Specific Conductance, 25°C, Field	702		µmhos/cm	1	10/30/2006	12:40 PM	EPA 120.1
DIGESTW	Metals digest w/HNO3, water samples	Completed				11/1/2006	8:00 AM	SM 3030 D, E
ELEV	Elevation, Water Table	18.48		Feet NGVD		10/30/2006	12:40 PM	FDEP-SOP-001/01
FE	Iron by flame AA	1.70		mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.258		mg/L as N	0.014	11/1/2006	10:35 AM	EPA 350.1
PHF	pH, Field (electrometric)	6.97		units	0.1	10/30/2006	12:40 PM	EPA 150.1
SAMPLEG	Sample Collection Ground Water	Completed				10/30/2006	12:40 PM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B
SO4_IC	Sulfate	54.9		mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	435		mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	0.54		mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	10.1		mg/L	0.5	10/31/2006	11:05 AM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Laboratory ID	AC01403	Collection date and time	10/30/2006 12:55 PM
Location Code	WTE-EQB	Sample Collector	YAMILLIE NOA
Sample Description	Waste / Energy Equipment Blank		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
Sampled at WTE-6.								
ASUGL	Arsenic, AA furnace technique	1.0	U	µg/L	1.0	10/31/2006	10:00 AM	SM20 3113 B
CL	Chloride titrimetric Argentometric	1.2	U	mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
FE	Iron by flame AA	0.04	U	mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.014	U	mg/L as N	0.014	11/1/2006	10:35 AM	EPA 350.1
SAMPLEG	Sample Collection Ground Water	Completed				10/30/2006	12:55 PM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B
SO4_IC	Sulfate	0.05	U	mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	5.5	U	mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C





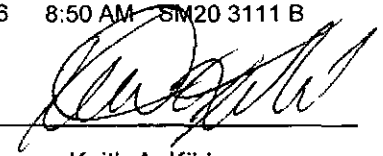
Laboratory ID	AC01403	Collection date and time	10/30/2006 12:55 PM
Location Code	WTE-EQB	Sample Collector	YAMILLIE NOA
Sample Description	Waste / Energy Equipment Blank		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
Sampled at WTE-6.								
TKN	Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	0.5	U	mg/L	0.5	10/31/2006	11:05 AM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Laboratory ID	AC01404	Collection date and time	10/30/2006 12:52 PM
Location Code	WTE-EQB	Sample Collector	YAMILLIE NOA
Sample Description	Waste / Energy Field Blank		

Analysis Code	Analyte Name	Result	Qualifier	Units	MDL	Analysis Date	Analysis Time	Analysis Method
Sampled at WTE-6.								
ASUGL	Arsenic, AA furnace technique	1.0	U	µg/L	1.0	10/31/2006	10:00 AM	SM20 3113 B
CL	Chloride titrimetric Argentometric	1.2	U	mg/L	1.2	11/9/2006	6:00 AM	SM20 4500-CI-B
FE	Iron by flame AA	0.04	U	mg/L	0.04	11/7/2006	8:13 AM	SM3111B
HG	Mercury, AA cold vapor technique	0.2	U	µg/L	0.2	11/9/2006	3:00 PM	EPA 245.1
MN	Manganese by flame AA	0.01	U	mg/L	0.01	11/8/2006	12:30 PM	SM20 3111 B
NH3	Ammonia, Automated Phenate	0.014	U	mg/L as N	0.014	11/1/2006	10:35 AM	EPA 350.1
SAMPLE	Sample Collection	Completed				10/30/2006	12:52 PM	FDEP-SOP-001/01
SEUGL	Selenium, AA furnace technique	1.0	U	µg/L	1.0	11/14/2006	1:40 PM	SM20 3113 B
SO4_IC	Sulfate	0.05	U	mg/L	0.05	11/6/2006	9:39 AM	EPA 300.0
TDS	Total Dissolved Solids/filterable	5.5	U	mg/L	5.5	11/3/2006	9:00 AM	SM20 2540 C
TKN	Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.1	11/2/2006	10:30 AM	EPA 351.2
TOC	Total Organic Carbon	0.682	U	mg/L	0.5	10/31/2006	11:05 AM	SM20 5310 B
ZN	Zinc by flame AA	0.005	U	mg/L	0.005	11/7/2006	8:50 AM	SM20 3111 B

Unless noted otherwise, these test results meet all the requirements of the 2003 NELAC Standards.  
 All questions regarding this report should be directed to Keith A. Kibbey, Laboratory Manager.



Keith A. Kibbey  
 Laboratory Manager



## Lee County Environmental Laboratory's Data Qualifiers

- ! Data deviate from historically established concentration ranges.
- \* Not reported due to interference.
- ? Data rejected and should not be used. Some or all the quality control data for the analyte were outside criteria, and presence or absence cannot be determined.
- A Value reported is the arithmetic mean of two or more determinations.
- AAP Analysis performed by Alta Analytical Perspectives - DOH # E87608
- B Results based upon colony counts outside the acceptable range.
- BC Analysis performed by client not a NELAC certified laboratory.
- D Measurement made in the Field.
- DOHJ Analysis performed by Florida Department of Health, Jacksonville, Lab Accession # IRC 180-2002
- DOHO Analysis performed by Florida Department of Health Bureau of Radiation Control, Orlando, FL, DOH # E13800
- DOHT Analysis performed by Florida Department of Health, Tampa, FL, DOH # E14157
- ELAB Analysis performed by ELAB, Inc. of Ormond Beach, FL, DOH # E83079
- EMSL Analysis performed by EMSL Analytical, Inc., Miami Beach, FL - DOH # E86795
- FRS Analysis performed by Florida Radiochemistry Services Inc., Orlando, FL - DOH # E83033
- GWL Analysis performed by Green Water Laboratories, Palatka, FL
- H Value based on field kit determination; result may not be accurate.
- I The value is equal to or between the laboratory method detection limit and the laboratory practical quantification limit.
- J Estimated value; value may not be accurate.
- J1 Surrogate recovery limits have been exceeded.
- J2 No known quality control criteria exist for the component.
- J3 The reported value failed to meet the established quality control criteria for either precision or accuracy.
- J4 The sample matrix interfered with the ability to meet the accuracy requirement for a matrix spike.
- J5 The data are questionable because of improper laboratory or field protocols.
- J6 The field calibration verification did not meet calibration acceptance criteria.
- J98 Correlation coefficient of calibration curve < 0.995.
- J99 Seeded BOD samples did not exhibit dissolved oxygen drop of at least 2 mg/L.
- K Off scale low. Actual value is known to be less than value given.
- K1 The value is less than the lowest calibration standard and the calibration curve is known to be non-linear.
- KNL Analysis performed by KNL Laboratory Services DOH # E84025
- L Off scale high. Actual value is known to be greater than value given.
- M Presence of material verified, but not quantified; actual value is less than the value given.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis not performed.
- P Although 2 dissimilar GC columns confirmed the presence of the target analyte, relative % difference is >40%.
- Q Sample held beyond the accepted holding time.
- R Significant rain in the last 48 hours.
- SAL Analysis performed by Southern Analytical Laboratories, Inc., Oldsmar, FL - DOH # E84129
- STLT Analysis performed by Severn Trent Laboratories, Tallahassee, FL, DOH # E81005.
- T Value reported is less than the laboratory method detection limit.
- U Indicates that the compound was analyzed for but not detected.
- ULI Analysis performed by Underwriters Laboratories Inc. DOH # E87775
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- V1 Indicates that the analyte was detected in both the sample and associated field blank at a level of <5X the blank value.
- Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
- Z Too many colonies were present (TNTC); the numeric value represents the filtration volume.



# LCEL

Lee County Environmental Laboratory  
 60-2 Danley Dr Ft Myers, FL 33907  
 Phone: (239) 278-7070  
 Fax: (239) 939-4850

## Analysis Request & Chain of Custody Record

Lab Certification: E45049

Report/Result Information				Billing/Invoice Information				Page 2 of 2					
Name: LAURA GRAY L.C. SOLID WASTE				Name: LAURA GRAY L.C. SOLID WASTE				<b>Matrix Codes:</b> DW-Drinking water GW- Ground water WW-Waste water SW-Surface water WWS-Wastewater Sludge S-Sediment O-Other					
Address: 10550 BUCKINGHAM RD				Address: SAME									
Phone/Fax/Cell: 707-1537				Phone/Fax/Cell: ( )									
Sample Collector(s) (please print): JOHN REEKIE				Sample Collector Signature: <i>John Reekie</i>				<b>Analyses Requested</b>					
Relinquished By: (signature) <i>John Reekie</i>		Date 10/31/06	Time 1300	Received By: (signature) <i>John Reekie</i>									
Relinquished By: (signature)		Date	Time	Received By: (signature)									
Relinquished By: (signature)		Date	Time	Received By: (signature)									
Sample(s) on ice <input checked="" type="checkbox"/> Yes or <input type="checkbox"/> No?								Preservatives (see codes)					
								FD   N   S   N   NP   H					
<b>Collection Date/Time</b>		<b>Sample Description &amp; Location</b>				<b>Matrix (see codes)</b>		<b># of Sample Containers Submitted</b>				<b>LCE Lab #</b>	
10/30/06 12:40 AM (PM)		WTE 6-5				GW		x 1 1 1 1 1				AC 01402	
12:55 AM (PM)		WTE - FCER				GW		x 1 1 1 1 1				AC 01403	
12:52 AM (PM)		WTE - FB				GW		x 1 1 1 1 1				AC 01404	