



REPORT OF ANALYSIS

Printed 06/13/10

Thomas Sirna
Palm Beach Solid Waste Authority
7501 N. Jog Rd.
West Palm Beach, FL 33412

Log #: 375500
Report Period 2010/Q2

Client Project ID Central County Transfer Station
Collected By: Client

Laboratory Sample #	Client Sample #
375500-001	CTSSEB-060310
375500-002	CTSW-1

RECEIVED

JUN 14 2010

Respectfully submitted,

Mike Kimmel

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)



13-JUN-10

Project Manager: **Thomas Sirna**
Palm Beach Solid Waste Authority
7501 N. Jog Rd.
West Palm Beach, FL 33412

Reference: XENCO Report No: **375500**
Central County Transfer Station Surface Water
Project Address:

Thomas Sirna:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 375500. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 375500 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Mike Kimmel
Office Manager

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Order #: 375500-001

Client: Palm Beach Solid Waste Authority

Diameter (in): 3

Depth to Water (ft):

Total Depth (ft):

Top of Casing (ft):

Evacuation (gal):

XENCO Laboratories

Report for Analysis for DEP
Central County Transfer

Sheen: NONE

Color:

Odor:

Matrix: Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____

Sampling Date/Time: 06/03/2010 13:11

Test Site ID #: _____

Report Period: 2010/Q2

Well Name: CTSSEB-060310

Well Purge (Y/N): N

Classification of Ground Water: Sample, Analytical Request

Well Type: () Background

G W Elevation (NGVD): _____

() Intermediate

() Compliance

() Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil
							MDL	RL	
Field Parameters									
000664	pH	Peristaltic Pump	N	E150.1	06/03/10 13:11	7.22 SU	1	SU	1
000010	Temperature	Peristaltic Pump	N	E170.1	06/03/10 13:11	29.7 Deg C	1	Deg C	1
000537	Specific conductance	Peristaltic Pump	N	SW9050	06/03/10 13:11	2.70 uS/cm	1	uS/cm	1
082078	Turbidity	Peristaltic Pump	N	E180.1	06/03/10 13:11	0.170 NTU	0.1	NTU	1
Other									
000560	Oil & Grease, HEM	Peristaltic Pump	N	E1664A	06/08/10 17:30	<1.43 mg/L	1.43	4.00 mg/L	1

Order #: 375500-002

Client: Palm Beach Solid Waste Authority

Diameter (in): 3

Depth to Water (ft):

Total Depth (ft):

Top of Casing (ft):

Evacuation (gal):

XENCO Laboratories

Report for Analysis for DEP

Central County Transfer

Sheen: NONE

Color:

Odor:

Matrix: Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: _____ Sampling Date/Time: 06/03/2010 13:20

Test Site ID #: _____ Report Period: 2010/Q2

Well Name: CTSW-1 Well Purge (Y/N): N

Classification of Ground Water: Sample, Analytical Request Well Type: () Background

G W Elevation (NGVD): _____ () Intermediate

() Compliance

() Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil
							MDL	RL	
Field Parameters									
000664	pH	Peristaltic Pump	N	E150.1	06/03/10 13:20	7.35 SU	1	SU	1
000010	Temperature	Peristaltic Pump	N	E170.1	06/03/10 13:20	32.4 Deg C	1	Deg C	1
000537	Specific conductance	Peristaltic Pump	N	SW9050	06/03/10 13:20	283 uS/cm	10	uS/cm	1
082078	Turbidity	Peristaltic Pump	N	E180.1	06/03/10 13:20	1.08 NTU	1	NTU	1
Other									
000560	Oil & Grease, HEM	Peristaltic Pump	N	E1664A	06/09/10 18:30	<1.43 mg/L	1.43	4.00 mg/L	1



Flagging Criteria

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
 - J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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(281) 589-0692	(281) 589-0695
(972) 481-9999	(972) 481-9998
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8550



Flagging Criteria

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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(305) 823-8500	(305) 823-8555



Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present (TNTC); the numeric value represents the filtration volume.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
 - * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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CHAIN OF CUSTODY RECORD

Atlanta: 6017 Financial Dr. Norcross, GA 30071 770-449-8800
 Boca Raton: 3231 NW 7th Ave, Boca Raton, FL 33431 561-447-7373
 Miami: 14100 Palmetto Frontage Rd. Miami Lakes, FL 33018 305-923-8500

Orlando: 5448 Hoffner Av. Ste 408 Orlando, FL 32812 409-429-9022
 Tampa: 2565 North Falkenburg Rd, Tampa, FL 33619 813-620-2000

Company: **PG SWA** PO # _____

Address: **7501 N. 98th Rd** Quote # _____

City: **WRRS** State: **FL** Zip: **33412**

PI/Attn: **Thomas Sims** Phone: **604-0400**

Client: **Central City Surface Water** Fax: **640-3460**

Project Name: **Brenda Davis** Project ID: _____

Sampler: **M Alvarez**

Sample ID: _____

Collect Date: **6/3/0** Collect Time: **1300** Matrix Code: **AFW** Composite: _____

Field # of Containers: **1**

State: **FL** County: **DADE** City: **MIAMI**

Event: **Quarterly** Frequency: **Annual** Monthly: **N/A**

Reg. Program / Clean-up Std: _____

TRRP: **DW** NPDES: **LPST** Dry/Cn: _____

Other: _____

Relinquished by: **Brenda Davis** Date: **6/3/0** Time: **16:10**

Affiliation: **Xenco**

QA/QC Level & Certification: _____

ADAPT SEDD ERPIMS: _____

XLS Other: _____

Received by: **Pyzer** Date: **6-3-0** Time: **16:50**

Affiliation: _____

Match: _____

Incomplete: _____

Absent: _____

Unclear: _____

Received by: _____ Date: _____ Time: _____

Affiliation: _____

Match: _____

Incomplete: _____

Absent: _____

Unclear: _____

Received by: _____ Date: _____ Time: _____

Affiliation: _____

Match: _____

Incomplete: _____

Absent: _____

Unclear: _____

Received by: _____ Date: _____ Time: _____

Affiliation: _____

Match: _____

Incomplete: _____

Absent: _____

Unclear: _____

Received by: _____ Date: _____ Time: _____

Affiliation: _____

*** Container Type Codes**

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VN	Vial Pre-pressured	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear
Other: _____			

Size (L): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
 40ml, 125 ml, 250 ml, 500 ml, 1L Other
 Example: 4ozGC = 4oz glass clear
 40mlVP = 40ml Vial Pre-preserved

**** Preservative Type Codes**

A	None	E	HCL	I	Ice
B	HNO ₃	F	MeOH	J	MCAA
C	H ₂ SO ₄	G	Na ₂ S ₂ O ₃	K	ZnAc&NaOH
D	NaOH	H	NaHSO ₄	L	Asbc Acit&NaOH
C:					

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		
Other: _____			

ANALYSES REQUESTED

Cont Type *	Pres Type **	Hold Sample (CALL)	# Cont	Lab Only
		<input type="checkbox"/>		

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Composite	Field # of Containers	Field	Date	Time	Relinquished by	Affiliation	QA/QC Level & Certification	ADAPT SEDD ERPIMS XLS Other:	COC & Labels	EIDDs	Coolers	Temp °C	Lab Use Only	YES NO N/A	REMARKS		
																					Match	Incomplete
1	CTSS EB-0603 P	6/3/0	1300	AFW		1		6/3/0	16:10	Pyzer	Xenco			1	4	2	3			Sanitized shaker for field parameters		
2	CTS W-1	6/3/0	1300	S		1		6/3/0	16:50		Xenco											
3																						
4																						
5																						
6																						
7																						
8																						
9																						
0																						

Lab W.O. **35500** Page **1** of **1**

Field Billable Hrs: _____

TAT Work Days = D Need results by: _____ Time: _____

Std (5-10D) 6Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____

San Antonio 210-509-3334 Houston 281-240-4200 Dallas 214-902-0300 Corpus Christi 361-864-0371 Odessa 432-563-1800

Property of XENCO - Revision Date: Nov 12, 2009

C.O.C. Serial # **258376**

SOLID WASTE AUTHORITY

DIVISION OF ENVIRONMENTAL PROGRAMS

EQUIPMENT BLANK DATA SHEET

Sample Type: GRAZ COMPOSITE
 Site Identification: N County Transfer Station Surface ^{B/D} Discharge
 Date: 6-3-10
 Sample I.D.: Central AD
NCTSSDEB-060510
AD CTSS EB-
 Time: 13:11

Equipment blanks are collected in the field before sampling begins by filling a precleaned bailer with D.I. Water supplied by the Laboratory and then pouring the water from the bailer into the sampling bottles. This process is repeated until all sampling bottles are filled.

Notes and Comments
Phy sunny, hot
humid
 Cond on scale X 0.5
 PH < 2.0 in preservative

Field Parameters		Units	Sample Appearance
Temperature	<u>29.7</u>	<u>C</u>	<u>Clear</u> <u>no odor</u> <u>no sheen</u>
Cond: X	<u>ATC 2.7</u>	<u>uMHOS/cm</u>	
PH	<u>7.99</u> <u>7.22</u>	<u>Std Units</u>	
DO		<u>Mg/L</u>	
Other <u>Turb</u>	<u>0.17</u>	<u>NTU</u>	

Bucket# —
 Beaker# D

Sample Container Inventory				
Quantity	Size	Type	Preservative	Analysis

Sampled By: Brandi Perry
Morgan Allen
 Method of Shipment: Venoco

XENCO LABORATORIES

Container Receipt Verification Form

Work Order Number: _____

375500

Chain of Custody Number(s): _____

Tests	Pres.	gal GA/	32oz NM GA/	32oz NM GA/	32oz NM GA/	32oz W/M GA/	VOA/	VOA/	VOA/	120mL P w. Pill/	4oz Plastic/	4oz Plastic/	250mL HDPE/	500mL HDPE/	500mL HDPE/	500mL HDPE/	500mL HDPE/	1L HDPE/	1L HDPE/	9oz GC/	9oz GC/	9oz GC/	4oz GC/	4oz GC/	2oz GC/	2oz GC/	Tedar Bag	Ampules/	Other/	Comments						
						32oz W/M GA/ <i>h. 50z</i>																														

Abbreviations:
 Gal GA = One gallon amber
 32oz N/M GA = 32 oz Amberglass
 VOA = 40mL vials
 32oz W/M GA = 32 oz Wide Mouth Amberglass

1L HDPE = 1L (1000mL) Plastic Bottle
 500mL HDPE = 500mL Plastic Bottle
 250mL HDPE = 250mL Plastic Bottle

8oz GC = 8oz Soil Jar
 4oz CC = 4oz Soil Jar
 2oz CC = 2oz soil jar

120mL Plastic w. Pill = BacT
 Zip = Ziplock Bag
 4oz Plastic = 4oz Plastic Bottle

HCl = Hydrochloric Acid
 H2SO4 = Sulfuric Acid
 NaOH = Sodium Hydroxide
 MeOH = Methanol
 HNO3 = Nitric Acid
 ZnAc = Zinc Acetate
 Na2S2O3 = Sodium Thiosulfate

NH4Cl2 = Ammonium Chloride
 DI H2O = DI Water
 MCAA = Monochloroacetic Acid

Reviewed By: _____