

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

Log #: 363390  
Report Period: 2010/Q1

Client Project ID Central County Transfer Station  
Collected By: Client

Laboratory Sample #	Client Sample #
363390-001	CTSSEB-022410
363390-002	CTSW-1
363390-003	Metals Blank

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 (AAL11), 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), Florida(E86349)

04-AUG-10

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

Reference: XENCO Report No: **363390**  
**Central County Transfer Station Surface Water**  
Project Address:

**Thomas Sirna:**

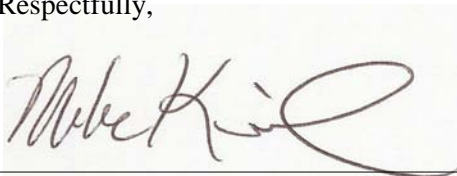
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 363390. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory 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. 363390 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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Diameter (in):  
Depth to Water (ft):  
Total Depth (ft):  
Top of Casing (ft):  
Evacuation (gal):

Sheen: NONE  
Color:  
Odor:  
Matrix: Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: \_\_\_\_\_ Sampling Date/Time: 02/24/2010 09:50

Test Site ID #: \_\_\_\_\_ Report Period: 2010/Q1

Well Name: CTSSEB-022410 Well Purge (Y/N): N

Classification of Ground Water: Equipment Blank Well Type: ( ) Background

G W Elevation (NGVD): \_\_\_\_\_ ( ) Intermediate

( ) Compliance  
( X ) Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil
							MDL	RL	
<b>Field Parameters</b>									
000664	pH	Grab	N	E150.1	02/24/10 09:50	6.87 SU	1	SU	1
000010	Temperature	Grab	N	E170.1	02/24/10 09:50	20.8 Deg C	1	Deg C	1
000537	Specific conductance	Grab	N	SW9050	02/24/10 09:50	12.5 uS/cm	10	uS/cm	1
082078	Turbidity	Grab	N	E180.1	02/24/10 09:50	0.280 NTU	0.1	NTU	1
<b>INORGANICS</b>									
000576	Mercury	Grab	N	SW7470A	03/01/10 17:27	<0.113 ug/L	0.113	0.200 ug/L	1
001002	Arsenic	Grab	N	SW6010B	03/04/10 08:39	<4.60 ug/L	4.60	10.0 ug/L	1
001007	Barium	Grab	N	SW6010B	03/04/10 08:39	<2.00 ug/L	2.00	10.0 ug/L	1
001027	Cadmium	Grab	N	SW6010B	03/04/10 08:39	<0.570 ug/L	0.570	5.00 ug/L	1
001034	Chromium	Grab	N	SW6010B	03/04/10 08:39	<1.10 ug/L	1.10	5.00 ug/L	1
001042	Copper	Grab	N	SW6010B	03/04/10 08:39	<9.60 ug/L	9.60	20.0 ug/L	1
001045	Iron	Grab	N	SW6010B	03/04/10 08:39	<45.0 ug/L	45.0	100 ug/L	1
000572	Lead	Grab	N	SW6010B	03/04/10 08:39	<3.10 ug/L	3.10	10.0 ug/L	1
001147	Selenium	Grab	N	SW6010B	03/04/10 08:39	<5.40 ug/L	5.40	30.0 ug/L	1
000929	Sodium	Grab	N	SW6010B	03/04/10 08:39	0.078 I mg/L	0.074	0.250 mg/L	1
<b>Other</b>									
000560	Oil & Grease, HEM	Grab	N	E1664A	02/26/10 19:00	<1.43 mg/L	1.43	4.00 mg/L	1
000410	Alkalinity, Total (CaCO3)	Grab	N	SM2320B	03/02/10 02:45	<2.17 mg/L	2.17	8.68 mg/L	1
	Surfactants	Grab	N	SM 5540C	02/25/10 11:00	0.088 I mg/L	0.043	0.100 mg/L	1
000599	Nitrogen, Ammonia (as N)	Grab	N	EPA 350.1	03/02/10 15:10	<0.020 mg/L	0.020	0.100 mg/L	1
000601	Nitrogen, Total Kjeldahl	Grab	N	EPA 351.2	03/04/10 13:38	0.095 IJ mg/L	0.087	0.300 mg/L	1
000340	COD - Chemical Oxygen Demand	Grab	N	EPA 410.4	03/03/10 15:00	<6.70 mg/L	6.70	20.0 mg/L	1
000515	Total dissolved solids	Grab	N	SM2540C	02/26/10 16:30	<5.00 mg/L	5.00	5.00 mg/L	1
000593	Chloride	Grab	N	EPA 300	02/25/10 18:25	<0.066 mg/L	0.066	0.500 mg/L	1

Order #: 363390-001

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP

Central County Transfer Station

Diameter (in):

Depth to Water (ft):

Total Depth (ft):

Top of Casing (ft):

Evacuation (gal):

Sheen: NONE

Color:

Odor:

Matrix: Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: \_\_\_\_\_

Sampling Date/Time: 02/24/2010 09:50

Test Site ID #: \_\_\_\_\_

Report Period: 2010/Q1

Well Name: CTSSEB-022410

Well Purge (Y/N): N

Classification of Ground Water: Equipment Blank

Well Type: ( ) Background

G W Elevation (NGVD): \_\_\_\_\_

( ) Intermediate

( ) Compliance

( X ) Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
000945	Sulfate	Grab	N	EPA 300	02/25/10 18:25	0.639 mg/L	0.076	0.500	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300	02/25/10 18:25	<0.007 mg/L	0.007	0.050	mg/L	1
	Total Petroleum Hydrocarbons (TPH)	Grab	N	E1664T	02/26/10 19:00	<1.37 mg/L	1.37	4.00	mg/L	1

Diameter (in): 3

Depth to Water (ft):

Sheen: NONE

Total Depth (ft):

Color:

Top of Casing (ft):

Odor:

Evacuation (gal):

Matrix: Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: \_\_\_\_\_

Sampling Date/Time: 02/24/2010 11:46

Test Site ID #: \_\_\_\_\_

Report Period: 2010/Q1

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

( X ) Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units		Detection Limits/Units		Dil
								MDL	RL	
<b>Field Parameters</b>										
000664	pH	Grab	N	E150.1	02/24/10 11:46	6.68	SU	1	SU	1
000010	Temperature	Grab	N	E170.1	02/24/10 11:46	21.3	Deg C	1	Deg C	1
000537	Specific conductance	Grab	N	SW9050	02/24/10 11:46	315	uS/cm	10	uS/cm	1
082078	Turbidity	Grab	N	E180.1	02/24/10 11:46	2.10	NTU	0.1	NTU	1
<b>INORGANICS</b>										
000576	Mercury	Grab	N	SW7470A	03/01/10 17:29	<0.113	ug/L	0.113	0.200	ug/L 1
001002	Arsenic	Grab	N	SW6010B	03/04/10 08:21	<4.60	ug/L	4.60	10.0	ug/L 1
001007	Barium	Grab	N	SW6010B	03/04/10 08:21	6.82 I	ug/L	2.00	10.0	ug/L 1
001027	Cadmium	Grab	N	SW6010B	03/04/10 08:21	<0.570	ug/L	0.570	5.00	ug/L 1
001034	Chromium	Grab	N	SW6010B	03/04/10 08:21	<1.10	ug/L	1.10	5.00	ug/L 1
001042	Copper	Grab	N	SW6010B	03/04/10 08:21	<9.60	ug/L	9.60	20.0	ug/L 1
001045	Iron	Grab	N	SW6010B	03/04/10 08:21	<45.0	ug/L	45.0	100	ug/L 1
000572	Lead	Grab	N	SW6010B	03/04/10 08:21	<3.10	ug/L	3.10	10.0	ug/L 1
001147	Selenium	Grab	N	SW6010B	03/04/10 08:21	<5.40	ug/L	5.40	30.0	ug/L 1
000929	Sodium	Grab	N	SW6010B	03/04/10 08:21	16.7	mg/L	0.074	0.250	mg/L 1
<b>Other</b>										
000560	Oil & Grease, HEM	Grab	N	E1664A	02/26/10 19:00	<1.43	mg/L	1.43	4.00	mg/L 1
000410	Alkalinity, Total (CaCO3)	Grab	N	SM2320B	03/02/10 02:45	74.0	mg/L	2.17	8.68	mg/L 1
	Surfactants	Grab	N	SM 5540C	02/25/10 11:00	0.067 I	mg/L	0.043	0.100	mg/L 1
000599	Nitrogen, Ammonia (as N)	Grab	N	EPA 350.1	03/02/10 15:12	<0.020	mg/L	0.020	0.100	mg/L 1
000601	Nitrogen, Total Kjeldahl	Grab	N	EPA 351.2	03/04/10 13:41	0.724	mg/L	0.087	0.300	mg/L 1
000340	COD - Chemical Oxygen Demand	Grab	N	EPA 410.4	03/03/10 15:00	28.1	mg/L	6.70	20.0	mg/L 1
000515	Total dissolved solids	Grab	N	SM2540C	02/26/10 16:30	110	mg/L	5.00	5.00	mg/L 1
000593	Chloride	Grab	N	EPA 300	02/25/10 18:46	27.9	mg/L	0.664	5.00	mg/L 10

Order #: 363390-002

Client: Palm Beach Solid Waste Authority

XENCO Laboratories

Report for Analysis for DEP  
Central County Transfer Station

Diameter (in): 3

Depth to Water (ft):

Sheen: NONE

Total Depth (ft):

Color:

Top of Casing (ft):

Odor:

Evacuation (gal):

Matrix: Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: \_\_\_\_\_

Sampling Date/Time: 02/24/2010 11:46

Test Site ID #: \_\_\_\_\_

Report Period: 2010/Q1

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

( X ) Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
000945	Sulfate	Grab	N	EPA 300	02/25/10 18:46	35.3 mg/L	0.755	5.00	mg/L	10
000620	Nitrate as N	Grab	N	EPA 300	02/25/10 18:46	<0.074 mg/L	0.074	0.500	mg/L	10
	Total Petroleum Hydrocarbons (TPH)	Grab	N	E1664T	02/26/10 19:00	<1.37 mg/L	1.37	4.00	mg/L	1

Diameter (in):  
 Depth to Water (ft):  
 Total Depth (ft):  
 Top of Casing (ft):  
 Evacuation (gal):

Sheen: NONE  
 Color:  
 Odor:  
 Matrix: Water, Laboratory Grade T

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: \_\_\_\_\_ Sampling Date/Time: 02/24/2010 00:00

Test Site ID #: \_\_\_\_\_ Report Period: 2010/Q1

Well Name: Metals Blank Well Purge (Y/N): N

Classification of Ground Water: Trip Blank Well Type: ( ) Background

G W Elevation (NGVD): \_\_\_\_\_ ( ) Intermediate

( ) Compliance  
 ( X ) Other

Storet Code	Parameter Name	Samp Meth	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dil	
							MDL	RL		
<b>INORGANICS</b>										
000576	Mercury	Grab	N	SW7470A	03/01/10 17:31	<0.113 ug/L	0.113	0.200	ug/L	1
001002	Arsenic	Grab	N	SW6010B	03/04/10 08:45	<4.60 ug/L	4.60	10.0	ug/L	1
001007	Barium	Grab	N	SW6010B	03/04/10 08:45	<2.00 ug/L	2.00	10.0	ug/L	1
001027	Cadmium	Grab	N	SW6010B	03/04/10 08:45	<0.570 ug/L	0.570	5.00	ug/L	1
001034	Chromium	Grab	N	SW6010B	03/04/10 08:45	<1.10 ug/L	1.10	5.00	ug/L	1
001042	Copper	Grab	N	SW6010B	03/04/10 08:45	<9.60 ug/L	9.60	20.0	ug/L	1
001045	Iron	Grab	N	SW6010B	03/04/10 08:45	<45.0 ug/L	45.0	100	ug/L	1
000572	Lead	Grab	N	SW6010B	03/04/10 08:45	<3.10 ug/L	3.10	10.0	ug/L	1
001147	Selenium	Grab	N	SW6010B	03/04/10 08:45	<5.40 ug/L	5.40	30.0	ug/L	1
000929	Sodium	Grab	N	SW6010B	03/04/10 08:45	<0.074 mg/L	0.074	0.250	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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Phone	Fax
(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) 823-8555

## 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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(813) 620-2000	(813) 620-2033
(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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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



**CENTRAL COUNTY TRANSFER STATION SURFACE WATER**

1 Surface water: CTSW-1

1 Equipment Blank (CTSSEB-)

***Parameters (Matrix Surface Water)***

**A. METALS**

Arsenic	Chromium	Lead	Sodium
Barium	Copper	Mercury	Selenium
Cadmium	Iron		

**B. INDICATOR PARAMETERS**

Ammonia Nitrogen	Nitrate N	Oil & Grease
Total Alkalinity	TKN (Total Kjeldahl Nitrogen)	Sulfate
C.O.D.	TDS (Total Dissolved Solids)	
Chloride	TRPH (Total Recoverable Petroleum Hydrocarbons)	
Foaming Agents (MBAS)		

**C. FIELD PARAMETERS**

Conductivity (field)  
 pH (field)  
 Temperature (field)  
 Turbidity (field)

2 of 2  
 COC # 258276

# SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS SURFACE SITE DATA SHEET

Facility Identification: **Central County Transfer Station**

Sample Type: **Grab**

Sample Name: **CTSW-1**

Date: **2-24-10**

Time: **11:46**

Depth of Sample: **38 ≈ 2-4"**  
Description: Adjacent to Storm water structure in pond

Notes and Comments

Weather: **overcast  
cool  
Breezy**

Conductivity on scale XUS

PH **2.0** in preservative

**staff gauge 8.72  
460525**

Field Parameters	Units	Standard Appearance
Temperature:	<b>21.3</b> C	Color: <b>Very light yellow</b> Odor: <b>no odor no sken</b>
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	<b>315</b> uMHOS/cm	
PH:	<b>6.68</b> Std. Units	
Turb:	<b>2.10</b> NTU	
D.O.	Mg/L	

Bucket# **B**

Beaker# **A**

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

**Each time sampled remember to open and close control structure**

Sampled By: **Brenda Deering  
M Alvarez**

Method of Shipment **None**



