

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

Pace Project Number: 3571964
Report Period: 2012/Q4

Client Project ID: Central Transfer Station SW

Lab Sample ID	Client Sample ID
3571964001	CTSS E BLANK-102312
3571964002	CTSW-1
3571964003	Metals Trip Blank 102312

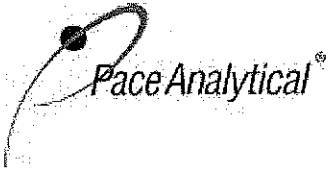
NOV 14 2012
RECEIVED

Sincerely,

A handwritten signature in cursive script that reads 'Martha Montero'.

Martha Montero

Florida Certifications:
E83079 - Ormond Beach
E86240 - South Florida



CASE NARRATIVE SUMMARY

Client Name: Palm Beach Solid Waste Authority
Project Name: Central Transfer Station SW

Pace Project Number: 3571964

Date Received: 10/23/2012

Report Date: 11/14/2012

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Order # : 3571964001

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

Diameter (in) : 0
 Depth to Water (ft) : 0
 Total Depth (ft) : 0
 Top of Casing (ft) : 0
 Evacuation (gal) : 0

Sheen : No sheen
 Color : clear
 Odor : none
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II
 Test Side ID # : NA
 Well Name : CTSS E BLANK-102312
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 10/23/2012 11:00
 Report Period : 2012/Q4
 Well Purge (Y/N) : N
 Well Type : () Background
 () Intermediate
 () Compliance
 (X) Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

FIELD PARAMETERS

000537	Field Specific Conductance	Grab	N		10/23/2012 11:00	2.1 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		10/23/2012 11:00	24.4 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		10/23/2012 11:00	8.15 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		10/23/2012 11:00	0.27 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	10/24/2012 22:05	<2.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	10/24/2012 22:05	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	10/24/2012 22:05	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	10/25/2012 09:28	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	10/26/2012 11:52	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	10/29/2012 10:32	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	10/24/2012 22:35	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	10/25/2012 14:52	<5.0 mg/L	5.0	5.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	10/24/2012 16:31	0.060 l mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	10/24/2012 10:03	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	10/24/2012 10:03	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	10/24/2012 10:03	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	10/24/2012 10:03	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	10/24/2012 10:03	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	10/24/2012 10:03	0.55 l mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	10/24/2012 16:15	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	10/24/2012 16:15	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	10/24/2012 16:15	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	10/24/2012 11:16	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	10/30/2012 16:00	<1.4 mg/L	1.4	5.1	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	10/30/2012 20:45	<1.4J(M1) mg/L	1.4	5.1	mg/L	1

Order # : 3571964002

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

Diameter (in) : 0
 Depth to Water (ft) : 0
 Total Depth (ft) : 8
 Top of Casing (ft) : 0
 Evacuation (gal) : 0

Sheen : No sheen
 Color : very light yellow
 Odor : none
 Matrix : Surface Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II
 Test Side ID # : PBCC09
 Well Name : CTSW-1
 Classification of Ground Water : SW-III F
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 10/23/2012 11:15
 Report Period : 2012/Q4
 Well Purge (Y/N) : N
 Well Type : () Background
 () Intermediate
 () Compliance
 (X) Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

FIELD PARAMETERS

000537	Field Specific Conductance	Grab	N		10/23/2012 11:15	291 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		10/23/2012 11:15	26.1 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		10/23/2012 11:15	6.75 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		10/23/2012 11:15	2.60 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	10/24/2012 07:06	17.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	10/24/2012 07:06	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	10/24/2012 07:06	11.6 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	10/25/2012 09:29	0.084 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	10/26/2012 11:53	0.88 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	10/29/2012 10:32	34.0 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	10/24/2012 22:39	97.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	10/25/2012 14:53	172 mg/L	5.0	5.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	10/24/2012 16:31	0.090 l mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	10/24/2012 10:07	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	10/24/2012 10:07	8.8 l ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	10/24/2012 10:07	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	10/24/2012 10:07	44.9 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	10/24/2012 10:07	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	10/24/2012 10:07	12.0 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	10/24/2012 16:18	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	10/24/2012 16:18	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	10/24/2012 16:18	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	10/24/2012 11:18	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	10/30/2012 16:00	<1.4 mg/L	1.4	5.1	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	10/30/2012 20:46	<1.4 mg/L	1.4	5.1	mg/L	1

Order # : 3571964003

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

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

Sheen :
Color :
Odor :
Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II
Test Side ID # : NA
Well Name : Metals Trip Blank 102312
Classification of Ground Water : Equipment Blank
Groundwater Elevation (NGVD) :

Sampling Date/Time : 10/23/2012 12:00
Report Period : 2012/Q4
Well Purge (Y/N) : N
Well Type :
() Background
() Intermediate
() Compliance
(X) Other

Storet Code	Parameter Monitored	Sampling Method	Field Filter	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		Dilution Factor
							MDL	PQL	

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	10/24/2012 10:20	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	10/24/2012 10:20	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	10/24/2012 10:20	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	10/24/2012 10:20	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	10/24/2012 10:20	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	10/24/2012 10:20	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	10/24/2012 16:21	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	10/24/2012 16:21	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	10/24/2012 16:21	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	10/24/2012 11:56	<0.10 ug/L	0.10	0.20	ug/L	1

NO# 3571964
RD

3571964

Container Type Codes
 AV Amber Vial
 CV Clear Vial
 ES Enigma Sampler
 PPV Prepreserved vial
 P Plastic
 PLJ Plastic Jar
 AL Amber Litter
 CL Clear Litter
 Z Ziploc bag
 AP Amber Plastic
 SG Amber Glass
 G Glass Jar
 C Cell Jar
 TC Tubs-Corr.
 PPV Prepreserved vial
 Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other.
 Example: 4ozP = 4oz Plastic; 8ozGBR = 8oz Glass Jar

Matrix Codes
 SD Solid Waste
 GW Ground Water
 EFF Effluent
 AFW Analyte Free H2O
 DW Drinking Water
 SW Surface Water
 ML Misc. Liquid
 OL Oil
 SL Sludge
 SO Soil Sediment
 AQ Aqueous
 MWC Marine
 PC Petroleum
 O Other (Please specify)

Preservative Type Codes
 A. None
 E. HCL
 F. MeOH
 G. Na2SO4
 H. NaOH
 I. Ice
 J. MCAA
 K. Zn Acetate
 O. Other

REMARKS
see field sheets for field parameters

LAB ANALYSIS

Sample #	Sample ID	Collect Date	Collect Time	Matrix Comp.	Frequency	Parameters		# of Containers	Stripps	Required State Certification	Cooler's #s	Temp °C			
						1	2								
1	STSEBLANK	10/21/12	11:10	AFW	6			1	1	FL GA SC NC NJ PA LA TX IL	1582	3	4	5	
2	CT500-1	10/21/12	11:15	S	6			1	1						
3															
4	Metab Sup Blank	10/23/12			1										
5															
6															
7															
8															
9															
10															

Item	Relinquished by	Date	Time	Affiliation	Received by	Date	Time	Signature	Signature	COO Condition		Required State Certification
										OK	Incomplete	
1	Quarantine	10/23/12	16:00	Pace	MLW	10/23/12	19:00	Pace	MLW	OK		FL GA SC NC NJ PA LA TX IL
2	MLW	10/23/12	15:30	Pace	Edwards	10/23	15:30	Edwards	MLW	OK		FL GA SC NC NJ PA LA TX IL
3												FL GA SC NC NJ PA LA TX IL
4												FL GA SC NC NJ PA LA TX IL

Pace Analytical
 www.pacelabs.com

Company Name: **IBSWA**
 Address: **7501 N. Jog Rd**
 City: **WPG**
 State: **FLA** Zip: **33412**
 Attn: **Thomas Sime**
 Phone: **201-640-4060**
 Fax: **201-640-3340**
 Project Name: **Central County Transfer Station Surface Water**
 Signature: **Thomas Sime**
 Circle One: Daily Weekly Monthly Annual

Page 1 of 2

CENTRAL COUNTY TRANSFER STATION Surface Water

SWA PERMIT # C.O.A. F.5.E. I & II

1 Surface Site CTSW-1

1 Equipment Blank (CTSSE Blank)

Parameters (Matrix: Surface Water)

A. Metals

<input checked="" type="checkbox"/> Arsenic	Chromium	Lead	Sodium
<input type="checkbox"/> Barium	Copper	Mercury	Selenium
<input type="checkbox"/> Cadmium	Iron		

B. Indicator Parameters

<input checked="" type="checkbox"/> Ammonia Nitrogen	<input checked="" type="checkbox"/> Nitrate N	<input checked="" type="checkbox"/> Oil & Grease
<input checked="" type="checkbox"/> Total Alkalinity	<input checked="" type="checkbox"/> TKN (Total Kjeldahl Nitrogen)	<input checked="" type="checkbox"/> Sulfate
<input checked="" type="checkbox"/> C.O.D.	<input checked="" type="checkbox"/> TDS (Total Dissolved Solids)	<input checked="" type="checkbox"/> Chloride
<input checked="" type="checkbox"/> TRPH (Total Recoverable Petroleum Hydrocarbons)		
<input checked="" type="checkbox"/> Foaming Agents (MBAS)		

C. Field Parameters

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

READ STAFF GAUGE

READ METER AT MASTER PUMP STATION

2 of 2 coc #
38638

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS SURFACE SITE DATA SHEET

Facility Identification: Central County Transfer Station Facility GMS#

Sample Type: Grab

Sample Name: **CTSSEBLANK-**
102212

Date: **10-22-12**

Time: **11:00**

Equipment blanks are collected before sampling .

DI water supplied

by the Laboratory is poured into the precleaned equipment.

and then poured into the sample bottles.

This process is repeated until all sampling bottles are filled.

Notes and Comments

Weather: **Sunny**
Windy warm

Conductivity on scale **XUS**

PH < **2.0** in preservative

Field Parameters	Units	Standard Appearance
Temperature:	24.4 C	Color: Clear Odor: no odor no skem
Specific Cond:	2.1 uMHOS/cm	
Redox Potential		
PH:	8.15 Std. Units	
Turb:	0.27 NTU	
D.O.	Mg/L	

Bucket# **A**

Beaker# **M**

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: **Brenda Quigg**
Mark [Signature]

Method of Shipment **Post**

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS SURFACE SITE DATA SHEET

Facility Identification: Central County Transfer Station

Sample Type: Grab

Sample Name: **CTSW-1**
WACS Facility ID: PBCC01
WACS Test Site ID: PBCC09

Date: 10-23-12
Time: 11:15

Depth of Sample: ~6-8"
Description: Adjacent to Storm water structure in pond

staff gauge (S) 12.60
N 12.60

meter reading 893120

Notes and Comments

Weather: sunny
windy warm

Conductivity on scale X 4 S
PH < 2.0 in preservative

Bucket# A
Beaker# M

Field Parameters	Units	Standard Appearance
Temperature:	26.1 C	Color: Very light yellow Odor: No odor No sheen
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	291 uMHOS/cm	
PH:	6.75 Std. Units	
Turb:	2.60 NTU	
D.O.	Mg/L	

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: Brenda Jewery
[Signature]

Method of Shipment: Parcel



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 04

Document Revised:
September 23, 2011
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: PBSWA Project # 3571964

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Date and Initials of person examining contents: PM 10/23

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T108 Type of Ice: Wet Blue None

Cooler Temperature °C 5.7 (Visual) .1 (Correction Factor) 5.8 (Actual) (Temp should be above freezing to 5°C). If below 0°C, then was sample frozen? Yes No

Receipt of samples satisfactory: Yes No Rush TAT requested on COC: _____

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____ Date: _____

Finished Product Information Only	
F.P. Sample ID: _____	<u>Size & Qty of Bottles Received</u>
Production Code: _____	_____ x 5 Gal
Date/Time Opened: _____	_____ x 2.5 Gal
Number of Unopened Bottles Remaining: _____	_____ x 1 Gal
	_____ x 1 Liter
	_____ x 500 mL
	_____ x 250 mL
	_____ x Other: _____
Extra Sample in Shed: Yes No	