



REPORT OF ANALYSIS
Printed 06/13/2013

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

Pace Project Number: 3583135
Report Period: 2013/Q1

Client Project ID: Central City Trans Station SW

Lab Sample ID	Client Sample ID
3583135001	CTSSE BLANK 021313
3583135002	CTSW-1
3583135003	Metals Trip Blank 021313

JUN 13 2013
RECEIVED

Sincerely,

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

Martha Montero

Florida Certifications:
E83079 - Ormond Beach



CASE NARRATIVE SUMMARY

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

Pace Project Number:3583135

Date Received:02/14/2013

Report Date:06/06/2013

V:Indicates that the analyte was detected in both the sample and the associated method blank.

Pace Analytical Services, Inc.

Project Name : Central City Trans Station SW
 Diameter (in) : 0
 Depth to Water (ft) : 0
 Total Depth (ft) : 0
 Top of Casing (ft) : 0
 Evacuation (gal) : 0

Order # : 3583135001
 Sheen : No sheen
 Color : Clear
 Odor : No 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 : CTSSE BLANK 021313
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 02/13/2013 10:30
 Report Period : 2013/Q1
 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		02/13/2013 10:30	9.3 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		02/13/2013 10:30	23.7 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		02/13/2013 10:30	7.37 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		02/13/2013 10:30	0.71 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	02/14/2013 20:02	<2.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	02/14/2013 20:02	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	02/14/2013 20:02	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	02/19/2013 10:02	0.060 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/16/2013 15:59	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	02/19/2013 15:09	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/20/2013 20:54	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/20/2013 15:36	<5.0 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	02/14/2013 17:34	0.080 l mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/20/2013 09:49	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/20/2013 09:49	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/20/2013 09:49	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/20/2013 09:49	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/20/2013 09:49	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/20/2013 09:49	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/22/2013 11:19	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/22/2013 11:19	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/22/2013 11:19	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	03/07/2013 10:42	0.050 lV ug/L	0.028	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	02/18/2013 12:42	<1.5 mg/L	1.5	5.5	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	02/18/2013 14:31	<1.5 mg/L	1.5	5.5	mg/L	1

Pace Analytical Services, Inc.

Project Name : Central City Trans Station SW
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :
 Evacuation (gal) :

Order # : 3583135002
 Sheen : No sheen
 Color : Very light yellow
 Odor : No odor
 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-IIIF
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 02/13/2013 10:30
 Report Period : 2013/Q1
 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		02/13/2013 10:30	320 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		02/13/2013 10:30	23.6 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		02/13/2013 10:30	6.17 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		02/13/2013 10:30	2.26 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	02/14/2013 20:55	22.2 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	02/14/2013 20:55	0.084 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	02/14/2013 20:55	15.8 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	02/19/2013 10:05	0.13 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/22/2013 09:22	0.71 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	02/19/2013 15:09	32.7 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/20/2013 21:00	103 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/20/2013 15:36	204 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	02/14/2013 17:34	0.10 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/20/2013 09:54	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/20/2013 09:54	7.3 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/20/2013 09:54	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/20/2013 09:54	112 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/20/2013 09:54	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/20/2013 09:54	16.0 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/22/2013 11:21	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/22/2013 11:21	37.0 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/22/2013 11:21	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	03/07/2013 10:44	0.050 IV ug/L	0.028	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	02/18/2013 12:42	<1.5 mg/L	1.5	5.3	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	02/18/2013 14:31	<1.5 mg/L	1.5	5.3	mg/L	1

Pace Analytical Services, Inc.

Project Name : Central City Trans Station SW
 Diameter (in) : 0
 Depth to Water (ft) : 0
 Total Depth (ft) : 0
 Top of Casing (ft) : 0
 Evacuation (gal) : 0

Order # : 3583135003
 Sheen : 0
 Color : 0
 Odor : 0
 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 021313
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 02/13/2013 10:30
 Report Period : 2013/Q1
 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	02/20/2013 09:58	<5.0ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/20/2013 09:58	<5.0ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/20/2013 09:58	<2.5ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/20/2013 09:58	<20.0ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/20/2013 09:58	<5.0ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/20/2013 09:58	<0.50mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/22/2013 11:23	<0.050ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/22/2013 11:23	<0.93ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/22/2013 11:23	<0.50ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	03/07/2013 10:47	0.050 IVug/L	0.028	0.20	ug/L	1



NO# 3583135



3583135

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LAB ANALYSIS

Company Name: Bob SWA PO# _____
 Address: 7501 N. Wagon Rd
 City: WPG State: FL Zip: 33412
 Attn: Thomas Sirna Fax# 904-640-3100
 email: _____ Phone: 904-640-4008
 Project Name: CENTRAL CITY TRANSFER STATION
SURFACE WATER
 Sampler: MAWA-2
 Signature: Thomas Sirna
 Circle One: Daily Weekly Monthly
 Quarterly Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Container Type	Volume (L)	Volume (G)
1	CTSSEGLANK-021313	2/13/13	10:30	AFD	7		
2	CTSW-1	2/13/13	10:45	S	7		
3							
4	Metals Trip Blank	021313			1		
5							
6							
7							
8							
9							
10							

See page 4 letter by 12-31-12

Sample #	Matrix Code	Preservative Code	Container Type	Volume (L)	Volume (G)	Remarks
1	Oil	I. Ice				See field sheets for field parameters
2						
3						
4						
5						
6						
7						
8						
9						
10						

Parameters

Dis: Lead 6010

Item	Relinquished by	Shipped/hold	Amplification	Circle 1-4	DA/QC/Report Level	ADAPT SEDD ERP/MS TSV CSV Other	Received by	Amplification	Received Date	GOC Condition	Required Ship Certification	Coolest #s	Temp °C
1	Brandon Jones	Y		1	CLP AFCEE		[Signature]	Pace	2-12-13	OK	FL GA SC NC NJ PA LA TX IL	1	2
2	[Signature]	Y		2	CLP AFCEE		[Signature]	Pace	2-13-13	OK	FL GA SC NC NJ PA LA TX IL	3	4
3	[Signature]	Y		3	CLP AFCEE		[Signature]	Pace	2/13	OK	FL GA SC NC NJ PA LA TX IL	5	

3193

Non-Contaminant Found?
 Samples INTACT upon arrival?
 Received on Wet bar?
 Proper Preservatives Indicated?
 Received within holding time?
 Custody seals intact?
 Vial(s) rec'd without headspace?
 Proper Containers Used?

Lab # 3583135

C.O.C. Serial # 42322

lab 954-582-4300

Revision: FALL-C-007 Rev.00

CENTRAL COUNTY TRANSFER STATION SURFACE WATER

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

1 Surface Water: CTSW-1

1 Equipment Blank CTSSE Blank-

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 2041

42322

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: **2.13.13**
Time: **10:45**

Depth of Sample: 2-4"
Description: Adjacent to Storm water structure in pond
Staff gauge 8.60 (south)
8.60 (North)
meter - 954478

Notes and Comments

Weather: *pt, sunny*
(1. Breeze
warm
Conductivity on scale X US
PH < 2.0 in preservative

Field Parameters	Units	Standard Appearance
Temperature:	23.6 C	Color: <i>Very light yellow</i> Odor: <i>no odor no sheen</i>
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	3.20 uMHOS/cm	
PH:	6.17 Std. Units	
Turb:	2.26 NTU	
D.O.	Mg/L	

Bucket# **B**
Beaker# **E**

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: *Brenda Carey*
Mawds

Method of Shipment *Pace*

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-
021313**

Date: **2-13-13**

Time: **10:30**

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: *Pty cloudy*
lt. Breeze
warm
Conductivity on scale X *US*
PH *< 2.0* in preservative

Field Parameters	Units	Standard Appearance
Temperature:	23.7 C	Color: <i>clear</i> Odor: <i>no odor</i> <i>no sken</i>
Specific Cond:	9.3 uMHOS/cm	
Redox Potential	9.0	
PH:	7.37 Std. Units	
Turb:	0.71 NTU	
D.O.	Mg/L	

Bucket# **B**
Beaker# **E**

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: *Brenda Daune*
Malden

Method of Shipment *Pace*

Sample Condition Upon Receipt Form (SCUR) Table Number: _____

Client Name: PR SWA Project # 398 3135

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: MM 2-14-13

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T-113 Type of Ice: Wet Blue None

Cooler Temperature °C 3.6 (Visual) 0.0 (Correction Factor) 3.6 (Actual) (Temp should be above freezing to 6°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: _____	Size & Qty of Bottles Received
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	