



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

Pace Project Number: 35199467  
Report Period: 2015/Q3

Client Project ID: Central Transfer Station Surfa

RECEIVED

**Lab Sample ID**

**Client Sample ID**

AUG 11 2015

35199467001  
35199467002  
35199467003

CTSSE Blank -072815  
CTSW-1  
Metals Blank -072815

Sincerely,

Martha Montero

**Florida Certifications:**

E83079 - Ormond Beach  
E86240 - South Florida  
E87627 - Charlotte

**Pace Analytical Services, Inc.**

Project Name : Central Transfer Station Surfa

Diameter (in) :

Depth to Water (ft) :

Total Depth (ft) :

Top of Casing (ft) :

Order # : 35199467001

Sheen : No sheen

Color : Clear

Odor : No odor

Matrix : DI Water

**PARAMETER MONITORING REPORT**

**Part III Analytical Results**

Facility WACS ID : PBCC01

Sampling Date/Time : 07/28/2015 11:30

Test Site ID # : NA

Report Period : 2015/Q3

Well Name : CTSSE Blank -072815

Well Purge (Y/N) : NA

Classification of Ground Water : Equipment Blank

Well Type : ( ) Background ( ) Compliance

Groundwater Elevation (NGVD) : \_\_\_\_\_

( ) Intermediat ( 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		07/28/2015 11:30	12.0 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/28/2015 11:30	24.1 deg C			deg C	1
000664	Field pH	Grab	N		07/28/2015 11:30	6.22 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		07/28/2015 11:30	0.16 NTU			NTU	1

**OTHER**

000593	Chloride	Grab	N	EPA 300.0	07/31/2015 01:12	<2.5 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	07/31/2015 01:12	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/30/2015 13:02	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/29/2015 18:27	<0.086 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/29/2015 10:26	0.11 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/04/2015 16:20	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/04/2015 13:04	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/30/2015 16:15	<5.0 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/29/2015 14:09	<0.059 mg/L	0.059	0.20	mg/L	1

**INORGANICS**

001002	Arsenic	Grab	N	EPA 6010	08/01/2015 18:35	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/01/2015 18:35	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/01/2015 18:35	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/01/2015 18:35	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/01/2015 18:35	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/03/2015 20:02	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/03/2015 20:02	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	08/03/2015 20:02	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/03/2015 20:02	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/05/2015 19:15	<0.10 ug/L	0.10	0.20	ug/L	1

**ORGANICS**

	Oil and Grease	Grab	N	EPA 1664B	07/31/2015 08:59	<1.1 mg/L	1.1	5.0	mg/L	1
	Petroleum Range Organics	Grab	N	FL-PRO	07/31/2015 14:57	<0.060 mg/L	0.060	0.10	mg/L	1

**Pace Analytical Services, Inc.**

Project Name : Central Transfer Station Surfa  
 Diameter (in) :  
 Depth to Water (ft) :  
 Total Depth (ft) :  
 Top of Casing (ft) :

Order # : 35199467002  
 Sheen : No sheen  
 Color : Light yellow  
 Odor : No odor  
 Matrix : Surface Water

**PARAMETER MONITORING REPORT**

**Part III Analytical Results**

Facility WACS ID : PBCC01  
 Test Site ID # : PBCC09  
 Well Name : CTSW-1  
 Classification of Ground Water : SW-IIIF  
 Groundwater Elevation (NGVD) : \_\_\_\_\_

Sampling Date/Time : 07/28/2015 11:45  
 Report Period : 2015/Q3  
 Well Purge (Y/N) : N  
 Well Type : ( ) Background ( ) Compliance  
 ( ) Intermediat ( 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		07/28/2015 11:45	281 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		07/28/2015 11:45	31.2 deg C			deg C	1
000664	Field pH	Grab	N		07/28/2015 11:45	7.12 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		07/28/2015 11:45	2.07 NTU			NTU	1

**OTHER**

000593	Chloride	Grab	N	EPA 300.0	07/31/2015 02:10	24.2 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	07/31/2015 02:10	20.1 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	07/30/2015 13:04	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	07/29/2015 18:28	0.51 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	07/29/2015 10:27	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/05/2015 14:26	28.2 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/04/2015 13:19	73.5 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	07/30/2015 16:16	153 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	07/29/2015 14:09	<0.059 mg/L	0.059	0.20	mg/L	1

**INORGANICS**

001002	Arsenic	Grab	N	EPA 6010	08/01/2015 18:39	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/01/2015 18:39	10.4 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/01/2015 18:39	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/01/2015 18:39	24.4 I ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/01/2015 18:39	15.5 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/03/2015 20:06	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/03/2015 20:06	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	08/03/2015 20:06	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/03/2015 20:06	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/05/2015 19:17	<0.10 ug/L	0.10	0.20	ug/L	1

**ORGANICS**

	Oil and Grease	Grab	N	EPA 1664B	07/31/2015 08:59	<1.1 mg/L	1.1	5.0	mg/L	1
	Petroleum Range Organics	Grab	N	FL-PRO	07/31/2015 14:57	<0.062 mg/L	0.062	0.10	mg/L	1

**Pace Analytical Services, Inc.**

Project Name : Central Transfer Station Surfa  
 Diameter (in) :  
 Depth to Water (ft) :  
 Total Depth (ft) :  
 Top of Casing (ft) :

Order # : 35199467003  
 Sheen : No Sheen  
 Color : Clear  
 Odor : No Odor  
 Matrix : DI Water

**PARAMETER MONITORING REPORT**

Part III Analytical Results

Facility WACS ID : PBCC01  
 Test Site ID # : CTSSEB-  
 Well Name : Metals Blank -072815  
 Classification of Ground Water : Equipment Blank  
 Groundwater Elevation (NGVD) : \_\_\_\_\_

Sampling Date/Time : 07/28/2015 00:00  
 Report Period : 2015/Q3  
 Well Purge (Y/N) : N  
 Well Type : ( ) Background ( ) Compliance  
 ( ) Intermediat ( 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	08/01/2015 18:44	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/01/2015 18:44	<5.0 ug/L	5.0	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	08/01/2015 18:44	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/01/2015 18:44	<20.0 ug/L	20.0	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/01/2015 18:44	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/03/2015 20:09	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/03/2015 20:09	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	08/03/2015 20:09	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/03/2015 20:09	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	08/05/2015 19:22	<0.10 ug/L	0.10	0.20	ug/L	1

**WO#: 35199467**  
**REC'D RECORD**  
**35199467**



**Company Name:** PB SWA  
**Address:** 7501 N. Jog Road, WPB, FL 33412  
**Contact:** Thomas Sirna  
**Phone:** 561 640-4000  
**Fax:** 561 640-3400

**City:** Pompano Beach, FL  
**State:** FL  
**Zip:** 33062  
**Phone:** 561 640-3400  
**Fax:** 561 640-3400

**Project Name:** Central County Transfer Station  
**Address:** 10000 NW 11th St, Pompano Beach, FL 33062  
**Phone:** 561 640-3400  
**Fax:** 561 640-3400

**Sampler Name:** Stanly Dwyer  
**Circle One Event:** Daily Weekly Monthly  
**Frequency:** Quarterly Semi-Annual Annual N/A

**Container Type Codes**  
 AV Amber Vial ES Encoro Sampler  
 CV Clear Vial PPV Preprogrammed vial  
 P Plastic PL C Plastic container  
 AL Amber Litr PL J Plastic Jar  
 CL Clear Litr Z Ziploc bag  
 AC Amber Plastic TB Toddler bag  
 CS Amber Glass WP Whip pack  
 SO Soil Jar G Gallon Jug  
 Other T C Terra-core  
 PFW Preprogrammed vial  
 Sizing: 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other  
 40ml, 50ml, 250ml, 125 ml  
 Example: 4ozP = 4oz Plastic, 8ozSJ = 8oz Soil Jar

**Matrix Codes**  
 SD Solid Waste OL Oil  
 GW Ground Water SL Sludge  
 EFF Effluent SO Soil Sediment  
 WW Wastewater AQ Aqueous  
 ANV Analyte Free H2O NA Nonaqueous  
 DW Drinking Water PE Petroleum  
 SW Surface Water O Other (Please specify)  
 ML Misc. Liquid

**Preservative Type Codes**  
 A. None E. HCl I. Ice  
 B. HNO3 F. MeOH J. MCAA  
 C. H2SO4 G. Na2S2O3 K. Zn Acetate  
 D. NaOH H. NaHSO4 O. Other

**LAB ANALYSIS**

**Sample**  
 TRC  
 pH  
 Pres Codes  
 Parameters  
 Letter of: 7-1-15  
 See page: 6  
 Letter of: 6  
 Letter of: 6  
 Letter of: 1

**EXAMPLE**  
 Diss. Lead 6010

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Integrity (OK/Y/N)	Total # of Containers	# of Containers		REMARKS
							Size	Type	
1	STSE BLANK - 072815	7/28/15	11:30	AFW		6	6	1	SEE FIELD SHEETS FOR FIELD PARAMETERS
2	STSW-1	7/28/15	11:45	S		6	6	1	
3									
4	Metals Trip Blanks - 072815					1	1	0	
5									
6									
7									
8									
9									
10									

Item	Relinquished by	Short Hold	Affiliation	Date	Time	Circle QA/QC Report Level		EDD (Fees May Apply)	COC Condition	Required State Certification
						1	2			
1	Stanly Dwyer		Dea	7/28/15	16:00			ADAPT SEDD ERPIMS TSV CSV Other	OK incomplete	FL GA SC NC NJ PA LA TX IL
2	Stanly Dwyer		Dea	7/28/15	15:45				OK	
3										
4										

**393**  
**TRC Coolers #'s - Temp °C**  
 0.8 3 4 5

**Non-Conformance Found?**  
 Samples INTACT upon arrival?  
 Received on Wet Ice?  
 Proper Preservatives Indicated?  
 Received within holding time?  
 Custody seals Intact?  
 Vials/ies used without heads/pans?  
 Proper Containers Used?

CENTRAL COUNTY TRANSFER STATION

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

SURFACE WATER

1 Surface Site CTSW-1

1 Equipment Blank CTSSE Blank-

1 Field Blank CTSSF Blank- \*Optional

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)

Read Staff Gauge and Read Meter at Pump Station

2 of 2 CCH 73924

# SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS EQUIPMENT BLANK DATA SHEET

Facility Identification: Central County Transfer Station Facility GMS#

Sample Type: Grab

Sample Name: **CTSSEBLANK-072815** Date: **7-28-15**

Time: **11:30**

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: **SUNNY +  
No + Breezy**  
Conductivity on scale **XUS**  
PH **< 2.0** in preservative

**Pace DI water Lot #  
Lot # 060915 423  
062215 424**

Field Parameters	Units	Standard Appearance
Temperature:	<b>24.1</b> C	Color: <b>clear</b>  Odor: <b>no odor no sken</b>
Specific Cond:	<b>12.0</b> uMHOS/cm	
Redox Potential	<b>11.30</b>	
PH:	<b>6.22</b> Std. Units	
Turb:	<b>0.16</b> NTU	
D.O.	<b>—</b> Mg/L	

Bucket# **A**

Beaker# **Q**

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: **Brenda Denny**  
**Mur**

Method of Shipment **Pace**

# 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: **7-28-15**  
 Time: **11:45**

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

7.02 - staff gauge (S)  
7.08 - staff gauge (N)

**Notes and Comments**

Weather: **SUNNY & hot breezy**

Conductivity on scale X US  
 PH < 2.0 in preservative

**Meter Reading**

~~7300~~  
**740060**

Bucket# **A**

Beaker# **Q**

Field Parameters	Units	Standard Appearance
Temperature:	<b>31.2</b> C	Color: <b>light yellow</b> Odor: <b>no odor</b> <b>no sheen</b>
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	<b>281</b> uMHOS/cm	
PH:	<b>7.12</b> Std. Units	
Turb:	<b>2.07</b> NTU	
D.O.	Mg/L	

**Sample Container Inventory**

Quantity	Size	Type	Preservation	Analysis

Sampled By: **Blenda Daerney**  
**[Signature]**

Method of Shipment \_\_\_\_\_





Document Name  
 Sample Condition Upon Receipt Form  
 Document No  
 F-P-C-007 rev 06

Revised  
 August 11, 2014  
 Issuing Authority  
 Pace Florida Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Table Number \_\_\_\_\_

Client Name: PBSWA Project # 35199467

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other \_\_\_\_\_

Tracking # \_\_\_\_\_

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used T199 Type of Ice:  Ice  Blue  None

Cooler Temperature °C 0.8 (Visual) +0.1 (Correction Factor) 0.9 (Actual)

Date and Initials of person examining contents: 7/29/15 JH

0000  
 (Temp should be above freezing to 6°C. If below 6°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: _____	<b>Size &amp; Qty of Bottles Received</b> _____ x 5 Gal _____ x 2.5 Gal _____ x 1 Gal _____ x 1 Liter _____ x 500 mL _____ x 250 mL _____ x Other: _____
Production Code: _____	
Date/Time Opened: _____	
Number of Unopened Bottles Remaining: _____	
Extra Sample in Shed: Yes <input type="checkbox"/> No <input type="checkbox"/>	