



REPORT OF ANALYSIS
Printed 08/25/2012

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

Pace Project Number: 3563636
Report Period: 2012/Q3

Client Project ID: Central Transfer Station Surfa

Lab Sample ID	Client Sample ID
3563636001	CTSSE BLANK -073012
3563636002	CTSSF BLANK -073012
3563636003	CTSW-1
3563636004	Metal Trip Blank 073012

AUG 25 2012
RECEIVED

Sincerely,

A handwritten signature in cursive script that reads "Christina Raschke".

Christina Raschke

Florida Certifications:

E83079 - Ormond Beach
E86240 - South Florida

Order #: 3563636001

Pace Analytical Services, Inc.

Client: Palm Beach Solid Waste Authority

Project Name: Central Transfer Station

Diameter (in): 0

Sheen: No sheen

Depth to Water (ft): 0

Color: CLEAR

Total Depth (ft): 0

Odor: NONE

Top of Casing (ft): 0

Matrix: DI Water

Evacuation (gal): 0

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: C.P.A.F.5.E. I & II

Sampling Date/Time: 07/30/2012 10:50

Test Side ID #: NA

Report Period: 2012/Q3

Well Name: CTSSE BLANK -073012

Well Purge (Y/N): N

Classification of Ground Water: Equipment Blank

Well Type: () Background

Groundwater Elevation (NGVD):

() 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		08/01/2012 12:54	7.6 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		08/01/2012 12:54	27.2 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		08/01/2012 12:54	7.21 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		08/01/2012 12:54	0.32 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	07/31/2012 17:17	<2.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	07/31/2012 17:17	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	07/31/2012 17:17	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/01/2012 14:20	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/02/2012 13:17	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/03/2012 15:19	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/03/2012 15:05	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/01/2012 15:36	<5.0 mg/L	5.0	5.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	07/31/2012 14:42	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	08/01/2012 20:31	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/01/2012 20:31	<5.0 ug/L	5.0	10.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/01/2012 20:31	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/01/2012 20:31	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/01/2012 20:31	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/02/2012 18:45	<0.050 ug/L	0.050	0.10	ug/L	1
001034	Chromium	Grab	N	EPA 6020	08/02/2012 18:45	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/02/2012 18:45	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/08/2012 11:54	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2012 12:11	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	08/01/2012 14:27	<1.4 mg/L	1.4	5.1	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	08/01/2012 15:48	<1.4 mg/L	1.4	5.1	mg/L	1

Order # : 3563636002

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

Diameter (in) :

Sheen : No sheen

Depth to Water (ft) :

Color : Clear

Total Depth (ft) :

Odor : No odor

Top of Casing (ft) :

Matrix : DI Water

Evacuation (gal) :

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II

Sampling Date/Time : 07/30/2012 11:00

Test Side ID # : NA

Report Period : 2012/Q3

Well Name : CTSSF BLANK -073012

Well Purge (Y/N) : N

Classification of Ground Water : Field Blank

Well Type : () Background

Groundwater Elevation (NGVD) : _____

() 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		07/30/2012 11:00	1.6 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		07/30/2012 11:00	26.8 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		07/30/2012 11:00	7.24 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		07/30/2012 11:00	0.52 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	07/31/2012 17:29	<2.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	07/31/2012 17:29	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	07/31/2012 17:29	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/01/2012 14:21	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/02/2012 13:19	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/03/2012 15:19	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/03/2012 15:09	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/01/2012 15:37	<5.0 mg/L	5.0	5.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	07/31/2012 14:42	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	08/01/2012 20:51	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/01/2012 20:51	<5.0 ug/L	5.0	10.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/01/2012 20:51	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/01/2012 20:51	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/01/2012 20:51	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/02/2012 18:47	<0.050 ug/L	0.050	0.10	ug/L	1
001034	Chromium	Grab	N	EPA 6020	08/02/2012 18:47	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/02/2012 18:47	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/08/2012 11:57	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2012 12:16	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	08/01/2012 14:28	<1.5 mg/L	1.5	5.2	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	08/01/2012 15:45	<1.5 mg/L	1.5	5.2	mg/L	1

Order # : 3563636003

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

Diameter (in) :

Sheen : No sheen

Depth to Water (ft) :

Color : Very Light Yellow

Total Depth (ft) :

Odor : No odor

Top of Casing (ft) :

Matrix : Surface Water

Evacuation (gal) :

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : C.P.A.F.5.E. I & II

Sampling Date/Time : 07/30/2012 11:10

Test Side ID # : PBCC09

Report Period : 2012/Q3

Well Name : CTSW-1

Well Purge (Y/N) : N

Classification of Ground Water : SW-IIIF

Well Type : () Background

Groundwater Elevation (NGVD) : _____

() 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		07/30/2012 11:10	277 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		07/30/2012 11:10	31.0 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		07/30/2012 11:10	6.75 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		07/30/2012 11:10	1.40 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	07/31/2012 17:41	25.2 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	07/31/2012 17:41	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	07/31/2012 17:41	13.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	08/01/2012 14:22	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	08/02/2012 13:53	0.48 l mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	08/03/2012 15:19	28.3 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	08/03/2012 15:15	72.5 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	08/01/2012 15:38	154 mg/L	5.0	5.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	07/31/2012 14:42	0.060 l mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	08/01/2012 20:55	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/01/2012 20:55	6.7 l ug/L	5.0	10.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/01/2012 20:55	21.6 l ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/01/2012 20:55	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/01/2012 20:55	19.7 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/02/2012 18:59	<0.050 ug/L	0.050	0.10	ug/L	1
001034	Chromium	Grab	N	EPA 6020	08/02/2012 18:59	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/02/2012 18:59	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/08/2012 12:01	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2012 12:18	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664A	08/01/2012 14:28	<1.5 mg/L	1.5	5.2	mg/L	1
	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	08/01/2012 15:46	<1.5 mg/L	1.5	5.2	mg/L	1

Order # : 3563636004

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 :
 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 : Metal Trip Blank 073012
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 07/30/2012 11:10
 Report Period : 2012/Q3
 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	08/01/2012 21:00	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	08/01/2012 21:00	<5.0 ug/L	5.0	10.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	08/01/2012 21:00	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	08/01/2012 21:00	<5.0 ug/L	5.0	10.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	08/01/2012 21:00	<0.50 mg/L	0.50	1.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	08/02/2012 19:02	<0.050 ug/L	0.050	0.10	ug/L	1
001034	Chromium	Grab	N	EPA 6020	08/02/2012 19:02	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6020	08/02/2012 19:02	<0.93 ug/L	0.93	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	08/02/2012 19:02	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	07/31/2012 12:20	<0.10 ug/L	0.10	0.20	ug/L	1

CENTRAL COUNTY TRANSFER STATION

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

SURFACE WATER

1 Surface Site *CTSW-1*

1 Equipment Blank *CTSSSE Blank-*

1 Field Blank *CTSSF 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)

Read Staff Gauge and Read Meter at Pump Station

2 of 2 C.O.C. # 40284

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-073012** Date: **7-30-12**
Time: **10:50**

<p>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.</p>	<p style="text-align: center;">Notes and Comments</p> <p>Weather Sunny + warm</p> <p>Conductivity on scale XUS</p> <p>PH < 2.0 in preservative</p>
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Field Parameters	Units	Standard Appearance	
Temperature:	27.2	C	Color: clear Odor: no odor no sheen Bucket# F Beaker# D
Specific Cond:	7.6	uMHOS/cm	
Redox Potential	←		
PH:	7.21	Std. Units	
Turb:	0.32	NTU	
D.O.		Mg/L	

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: Brenda Davery
Mat C

Method of Shipment: Face

**SOLID WASTE AUTHORITY
DIVISION OF ENVIRONMENTAL PROGRAMS
FIELD BLANK DATA SHEET**

Sample Type: GRAB COMPOSITE
Site Identification: Central County Transfer Station

Date: 7-30-12

Sample I.D. CTSSFBLANK-073012

Time: 11:00

Notes
and Comments

*SUNNY
WARM
PH < 2.0
in preservative*

Field Parameters		Units	Sample Appearance
Temperature	<u>26.8</u>	C	<i>clear no odor no skew</i>
Cond: X	<u>1.16</u> ATC	uMHOS/cm	
PH	<u>7.24</u>	Std Units	
DO		Mg/L	
Turb	<u>0.52</u>	NTU	

Quantity	Size	Type	Preservative	Sample Container Inventory	Analysis

Sampled By: Brenda Cherry
Met Anal

Method of Shipment: Trace

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: **7-30-12**
Time: **11:10**

Depth of Sample: 26-8"
Description: Adjacent to Storm water structure in pond

849789
Staff gauge 10.61 S
Staff gauge 10.66 N

Notes and Comments

Weather: **Sunny**
Warm

Conductivity on scale X **05**
PH **2.0** in preservative

Field Parameters	Units	Standard Appearance
Temperature:	31.0 C	Color: very light yellow Odor: No odor No sheen
Specific Cond:	uMHOS/cm	
Specific Cond: ATC	277 uMHOS/cm	
PH:	6.75 Std. Units	
Turb:	1.40 NTU	
D.O.	Mg/L	

Bucket# **F**
Beaker# **D**

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: Brenda Laury
Maia

Method of Shipment Parcel

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____



Client Name: PBSLOWA Project # 3703634

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: JP 7/30/12

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T108 Type of Ice: Wet Blue None

Cooler Temperature °C 3.6 (Visual) 40.1 (Correction Factor) 3.7 (Actual)

(Temp should be above freezing to 0°-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	