



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

Pace Project Number: 3583918
Report Period: 2013/Q1

Client Project ID: Central County Transfer Sta GW

Lab Sample ID	Client Sample ID
3583918001	CTMW-4S
3583918002	CTMW-4I
3583918003	CTSF BLANK 022013
3583918004	Metals Trip Blank 022013

MAR 20 2013
RECEIVED

Sincerely,

Martha Montero

Florida Certifications:
E83079 - Ormond Beach



CASE NARRATIVE SUMMARY

Client Name:Palm Beach Solid Waste Authority
Project Name:Central County Transfer Sta GW

Pace Project Number:3583918

Date Received:02/21/2013

Report Date:03/19/2013

D3:Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Order #: 3583918001

Pace Analytical Services, Inc.

Client: Palm Beach Solid Waste Authority

Project Name: Central County Transfer

Diameter (in): 2
 Depth to Water (ft): 12.18
 Total Depth (ft): 32.45
 Top of Casing (ft): 20.95
 Evacuation (gal): 12

Sheen: none
 Color: lt golden yellow
 Odor: none
 Matrix: Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: Permit COAF5E I&II
 Test Side ID #: PBCC07
 Well Name: CTMW-4S
 Classification of Ground Water: G-II
 Groundwater Elevation (NGVD): 8.77

Sampling Date/Time: 02/20/2013 10:45
 Report Period: 2013/Q1
 Well Purge (Y/N): Y
 Well Type: () Background
 () Intermediate
 (X) Compliance
 () 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		02/20/2013 10:45	427 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		02/20/2013 10:45	26.0 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		02/20/2013 10:45	6.52 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		02/20/2013 10:45	3.03 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	02/21/2013 23:34	22.0 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	02/21/2013 23:34	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	02/21/2013 23:34	46.7 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	02/22/2013 12:20	0.11 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/26/2013 15:15	0.83 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	02/27/2013 13:30	74.4 mg/L	12.5	20.0	mg/L	1
	True Color	Grab	N	SM 2120B	02/21/2013 07:00	150 units	50.0	50.0	units	10
	Threshold Odor Number	Grab	N	SM 2150B	02/21/2013 09:58	1.0 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/26/2013 00:03	126 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/27/2013 15:38	315 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2E	02/22/2013 15:30	<1.0 mg/L	1.0	1.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	02/21/2013 15:51	0.22 ID3 mg/L	0.12	0.40	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/27/2013 05:24	8.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/27/2013 05:24	39.0 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	02/27/2013 05:24	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6010	02/27/2013 05:24	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/27/2013 05:24	2770 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/27/2013 05:24	<5.0 ug/L	5.0	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	02/27/2013 05:24	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/27/2013 05:24	12.8 mg/L	0.50	1.0	mg/L	1
001034	Chromium	Grab	N	EPA 6020	02/27/2013 20:07	4.6 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/27/2013 11:21	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	03/01/2013 20:08	<1.4 mg/L	1.4	5.2	mg/L	1
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Order #: 3583918002

Pace Analytical Services, Inc.

Client: Palm Beach Solid Waste Authority

Project Name: Central County Transfer

Sheen: none

Color: lt. yellow

Odor: none

Matrix: Ground Water

Diameter (in): 2
Depth to Water (ft): 12.32
Total Depth (ft): 69.42
Top of Casing (ft): 21.07
Evacuation (gal): 30

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS #: Permit COAF5E I&II
Test Side ID #: PBCC08
Well Name: CTMW-4I
Classification of Ground Water: G-II
Groundwater Elevation (NGVD): 8.75

Sampling Date/Time: 02/20/2013 10:57
Report Period: 2013/Q1
Well Purge (Y/N): Y
Well Type: () Background
() Intermediate
(X) Compliance
() 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		02/20/2013 10:57	474 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		02/20/2013 10:57	26.1 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		02/20/2013 10:57	7.12 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		02/20/2013 10:57	0.84 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	02/22/2013 00:26	25.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	02/22/2013 00:26	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	02/22/2013 00:26	15.6 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	02/22/2013 12:21	0.091 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/26/2013 15:17	0.47 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	02/27/2013 13:30	31.1 mg/L	12.5	20.0	mg/L	1
	True Color	Grab	N	SM 2120B	02/21/2013 07:00	70.0 units	5.0	5.0	units	1
	Threshold Odor Number	Grab	N	SM 2150B	02/21/2013 09:58	<1.0 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/26/2013 00:21	181 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/27/2013 15:38	267 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2E	02/22/2013 15:30	<1.0 mg/L	1.0	1.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	02/21/2013 15:51	0.090 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/27/2013 05:28	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/27/2013 05:28	9.2 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	02/27/2013 05:28	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6010	02/27/2013 05:28	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/27/2013 05:28	502 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/27/2013 05:28	<5.0 ug/L	5.0	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	02/27/2013 05:28	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/27/2013 05:28	18.2 mg/L	0.50	1.0	mg/L	1
001034	Chromium	Grab	N	EPA 6020	02/27/2013 13:58	2.8 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/27/2013 11:23	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	03/01/2013 20:09	<1.5 mg/L	1.5	5.3	mg/L	1
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Order # : 3583918003

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central County Transfer

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 # : Permit COAF5E I&II

Sampling Date/Time : 02/20/2013 10:30

Test Side ID # : NA

Report Period : 2013/Q1

Well Name : CTSF BLANK 022013

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		02/20/2013 10:30	6.3 umhos/cm	1.0	1.0	umhos/cm	1
000010	Field Temperature	Grab	N		02/20/2013 10:30	22.1 deg C	0.50	0.50	deg C	1
000664	Field pH	Grab	N		02/20/2013 10:30	6.50 Std. Units	0.10	0.10	Std. Units	1
082078	Turbidity	Grab	N		02/20/2013 10:30	0.56 NTU	1.0	1.0	NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	02/21/2013 21:15	<2.5 mg/L	2.5	5.0	mg/L	1
000620	Nitrate as N	Grab	N	EPA 300.0	02/21/2013 21:15	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	02/21/2013 21:15	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	02/22/2013 12:22	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/26/2013 15:18	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	02/27/2013 13:30	<12.5 mg/L	12.5	20.0	mg/L	1
	True Color	Grab	N	SM 2120B	02/21/2013 07:00	<5.0 units	5.0	5.0	units	1
	Threshold Odor Number	Grab	N	SM 2150B	02/21/2013 09:58	<1.0 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	02/26/2013 00:24	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	02/27/2013 15:38	<5.0 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Grab	N	SM 4500-S2E	02/22/2013 15:30	<1.0 mg/L	1.0	1.0	mg/L	1
	Surfactants	Grab	N	SM 5540C	02/21/2013 15:51	<0.059 mg/L	0.059	0.20	mg/L	1

INORGANICS

001002	Arsenic	Grab	N	EPA 6010	02/27/2013 05:32	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/27/2013 05:32	<5.0 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	02/27/2013 05:32	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6010	02/27/2013 05:32	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/27/2013 05:32	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/27/2013 05:32	<5.0 ug/L	5.0	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	02/27/2013 05:32	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/27/2013 05:32	<0.50 mg/L	0.50	1.0	mg/L	1
001034	Chromium	Grab	N	EPA 6020	02/27/2013 14:00	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/27/2013 11:38	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Total Petroleum Hydrocarbons	Grab	N	EPA 1664A	03/01/2013 20:09	<1.4 mg/L	1.4	5.2	mg/L	1
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Order # : 3583918004

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central County Transfer

Diameter (in) :

Sheen :

Depth to Water (ft) :

Color :

Total Depth (ft) :

Odor :

Top of Casing (ft) :

Matrix : DI Water

Evacuation (gal) :

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : Permit COAF5E I&II

Sampling Date/Time : 02/20/2013 08:00

Test Side ID # : NA

Report Period : 2013/Q1

Well Name : Metals Trip Blank 022013

Well Purge (Y/N) : N

Classification of Ground Water : Trip Blank

Well Type : () Background

Groundwater Elevation (NGVD) :

() Intermediate

(X) Compliance

() 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	02/27/2013 05:35	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/27/2013 05:35	<5.0 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6010	02/27/2013 05:35	<0.50 ug/L	0.50	1.0	ug/L	1
001042	Copper	Grab	N	EPA 6010	02/27/2013 05:35	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/27/2013 05:35	<20.0 ug/L	20.0	40.0	ug/L	1
000572	Lead	Grab	N	EPA 6010	02/27/2013 05:35	<5.0 ug/L	5.0	10.0	ug/L	1
001147	Selenium	Grab	N	EPA 6010	02/27/2013 05:35	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/27/2013 05:35	<0.50 mg/L	0.50	1.0	mg/L	1
001034	Chromium	Grab	N	EPA 6020	02/27/2013 14:03	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	02/27/2013 11:40	<0.10 ug/L	0.10	0.20	ug/L	1



MO#: 3583918

Page 1 of 2

Company Name: **DR SWA** PO#

Address: **7501 N. 50th St** ZIP: **33312**

City: **WDP B** State: **FL** Zip: **33312**

Attn: **THOMAS** Sirna Fax# **60903420**

Phone: **Central County Transfer Station**

Project Name: **Well 15 Proj #**

Signature: **Brandenburg** Circle One Event: **Daily** Weekly Monthly

Sample ID: **1 CTM W-05** Collect Date: **7/20/13** Collect Time: **10:45** Water Code: **CUW**

Sample ID: **2 CTM W-412** Collect Date: **8/20/13** Collect Time: **10:57** Water Code: **CUW**

Sample ID: **3 CTSE BLMC-032013** Collect Date: **4/29/13** Collect Time: **10:30** Water Code: **APFW**

Sample ID: **6 Metals Tripblanks-022013** Collect Date: **022013** Collect Time: **022013** Water Code: **022013**

Sample ID: **10** Collect Date: **10/13** Collect Time: **10:45** Water Code: **CUW**

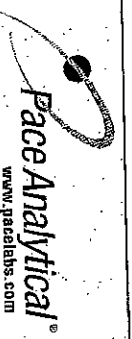
Sample	IRG	pH	Temp	Conductivity	Specific Gravity	Other Parameters
1						
2						
3						
6						
10						

Container Type Codes	Matrix Codes	Preservative Type Codes	Remarks
AV Amber Vial	SD Solid Waste	A None	see field sheet for field parameters
CV Clear Vial	GW Ground Water	E HCL	
P Plastic	EW Effluent	F MeOH	
AL Amber Liar	EF Effluent Free H2O	G Na2S2O3	
AG Amber Glass	AW Analytical Waste	H NaHSO4	
SI Soil Jar	DW Drinking Water	I Ice	
Other	SW Surface Water	J MCAA	
	ML Misc. Liquid	K Zn Acetate	
		O Other	

Item	Relinquished by	Affiliation	Date	Time	Received by	ADAPT SEED CSV Other	EBD (Fees May Apply)	COG CONDITION	Required State Certification	Time	Remarks
1	Brandenburg	POA	8/20/13	16:22	PAK			FL GA SC NC NJ PA LA TX IL	17:25		
2	Brandenburg	POA	8/20/13	17:25	PAK			FL GA SC NC NJ PA LA TX IL	17:25		
3	Brandenburg	POA	8/20/13	17:25	PAK			FL GA SC NC NJ PA LA TX IL	17:25		
4	Brandenburg	POA	8/20/13	17:25	PAK			FL GA SC NC NJ PA LA TX IL	17:25		

T120 TRAMP 2.1

C.O.C. Serial # 423224



CHAIN OF CUSTODY RECORD

LAB W/O # _____ Quote: _____ Page 1 of 2

Company Name: **PR SUIA** BO# _____
 Address: **7501 D. So. Rd**
 City: **W.P.B.** State: **FL** Zip: **33412**
 Attn: **Thomas** Site Fax# **6093400**

Project: **Central County Transfer Station**
 Name: **Monitoring Wells Proj #**
 Signature: **[Signature]** Circle One Event: Daily Weekly Monthly
 Sample Frequency: Quarterly Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Temp (F/C)	Total # of Containers
1	CTM-W-05	10/13	10:45	GW		8
2	CTM-W-06	10/13	10:57	GW		8
3	CTSE-BLANC-032013	11/2/13	10:30	AFW		8
4						
5						
6	Molds Tap Blank 022013					2
7						
8						
9						
10						

Sample	TRIG	DH	Pres	Other	Parameters
					see page 3 letter of 12/31/13

Container Type Codes	Matrix Codes	Preservative Type Codes	REMARKS
AV Amber Vial CV Clear Vial P Plastic Jar PL Plastic Jar CL Clear Lid AP Amber Plastic AG Amber Glass SJ Spill Jar TO Tera-cone	SS Spill Sample SV Spill Vial PC Plastic Container PL Plastic Jar Z Ziploc Bag TB Teracon Bag WP White Pak G Galton Jug Te Tera-cone	DI DI OI Oil SI Sludge SO Soil Sediment AQ Aquatics VA Vase Water NA N/A FE Ferrous O Other (Please specify)	EX See field sheet by field partner

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time	OCOC Condition	Required Chain of Custody	Temp. C
1	[Signature]		10/13	16:12	[Signature]		10/13	14:00	OK	PA LA TX IL	
2	[Signature]		10/13	17:25	[Signature]		10/13	13:05	OK	PA LA TX IL	
3	[Signature]		10/13	18:15	[Signature]		10/13	00:15	OK	PA LA TX IL	
4											

Pompano Lab 954-582-4300 Revision: F-ALL-C-007-Rev.00

CO.C. Serial # **42324**

TI 20 TRAMP 2.1

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC07	DATE: 2-20-13
WELL NO: CTMW-4S	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 20.95	Static Depth To Water (ft): 12.18	Water Table Elevation NGVD (ft): 8.77	Column Height (ft): 20.27	Total Well Depth (ft): 32.45'					
WELL DIAMETER (in): 2" PVC									
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 4 GALLONS									
WELL CAPACITY (gal/ft): 0.16									
= (32.45' - 12.18 - 20.27) X 0.16 = 3.24									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 10:28	PURGE ENDED AT: 10:44	TOTAL VOL. PURGED (gal): 12					
WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	4	4	0.25	12.32	6.45	25.9	436	0.64	4.06
1	4	8	0.75	12.32	6.52	26.1	430	0.70	4.47
1	4	12	0.25	12.32	6.52	26.0	427	0.79	3.03
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.52	26.0	427	—	3.03
Color: 1+ Golden yellow	Odor: None	Sheen: None	Comments: Meter Work - 03802 / Meter South - 058322						
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 10:45	SAMPLING ENDED AT: 10:51	Weather: Sunny, Warm			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH
1	HDPE	1-LITER	HNO3			
2	HDPE		H2SO4	120		
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT): Brenda Downey MA Alvarez			SAMPLER(S) SIGNATURE(S): Brenda Downey MA Alvarez			

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC08	DATE: 2-20-13
WELL NO: CTMW-4I	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 21.07	Static Depth To Water (ft): 12.32	Water Table Elevation NGVD (ft): 8.75	Column Height (ft): 57.1	Total Well Depth (ft): 69.42'					
WELLDIAMETER (in): 2" PVC 1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 10									
WELL CAPACITY (gal/ft): 0.16 = (69.42' - 12.32 = 57.1) X 0.16 = 9.12 GALLONS									
PURGE METHOD: Redi-flo			PURGE INITIATED AT: 10:24	PURGE ENDED AT: 10:54					
			TOTAL VOL. PURGED (gal): 30						
WELL VOL. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	10	10	1.0	12.63	7.01	26.3	471	0.79	2.39
1	10	20	1.0	12.65	7.08	26.2	471	0.86	1.12
1	10	30	1.0	12.70	7.12	26.1	474	1.20	0.84
				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
FINAL FIELD VALUES →					7.12	26.1	474	—	0.84
Color:	Odor:	Sheen:	Comments						
1+ yellow	None	None							
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 10:57	SAMPLING ENDED AT: 11:03	Weather: Sunny warm	
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y <input checked="" type="radio"/> N		
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	
		TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	HDPE	1-LITER	HNO3	Metals
2	HDPE		H2SO4	Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)				
SAMPLED BY (PRINT): Brenda Downy Alvarez			SAMPLER(S) SIGNATURE(S): Brenda Downy Alvarez	

SOLID WASTE AUTHORITY

DIVISION OF ENVIRONMENTAL PROGRAMS

FIELD BLANK DATA SHEET

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

Date: 2.20.13

Sample I.D. CTSFBLANK-022013

Time: 10:30

Notes
and Comments

Sunny
+ warm
PH < 2.0
in preservative

Field Parameters		Units	Sample
Temperature	<u>22.1</u>	C	Appearance <u>clean</u> <u>No odor</u> <u>No sheen</u>
Cond: X	<u>6.3</u>	uMHOS/cm	
	ATC <u>6.3</u>		
PH	<u>6.50</u>	Std Units	
DO		Mg/L	
Turb	<u>0.56</u>	NTU	

Sample Container Inventory

Quantity	Size	Type	Preservative	Analysis

Sampled By:

Brenda Dwyer
Menton

Method of Shipment:

Parcel

CENTRAL COUNTY TRANSFER STATION MONITORING WELLS

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

8 Monitoring Wells: CTMW-1S, CTMW-1I, CTMW-2S, CTMW-2I, CTMW-3S, CTMW-3I,
CTMW-4S, CTMW-4I

1 Field Duplicate CTSFD- ~~OPTIONAL~~

1 Field Blank (CTSFD Blank-)

Parameters (Matrix: Ground Water)

A. Metals

Arsenic	Chromium	Lead	Sodium
Barium	Copper	Mercury	Selenium
Cadmium	Iron		

B. Indicator Parameters

Ammonia Nitrogen	Foaming Agents (MBAS)	Nitrate N
Total Alkalinity	Hydrogen Sulfide	Odor
C.O.D.	TKN (Total Kjeldahl Nitrogen)	Sulfate
Color	TDS (Total Dissolved Solids)	Chloride
TRPH (Total Recoverable Petroleum Hydrocarbons)		

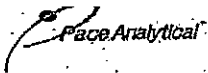
C. Field Parameters

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

D. Well Information (field)

Well Diameter
Well Depth
Well Casing Elevation
Depth to Water
Water Table Elevation
Volume Evacuated

2 of 2 coc # 42324



DOCUMENT NUMBER:
 Sample Condition Upon Receipt Form
 Document No.:
 F-FLC-007 rev. 04

DOCUMENT NUMBER:
 September 23, 2011
 Issuing Authority:
 Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: PB SVA Project # 3583918

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: LS 2/21/13

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used J120 Type of Ice: Wet Blue None

Cooler Temperature °C 2.1 (Visual) -0.6 (Correction Factor) 2.1 (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: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Size & Qty of Bottles Received

- _____ x 5 Gal
- _____ x 2.5 Gal
- _____ x 1 Gal
- _____ x 1 Liter
- _____ x 500 mL
- _____ x 250 mL
- _____ x Other: _____

Extra Sample in Shed: Yes No