




REPORT OF ANALYSIS
Printed 07/16/2012

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

Pace Project Number: 3542637
Report Period: 2011/Q4

Client Project ID: Central Transfer Station Wells

Lab Sample ID	Client Sample ID
3542637001	CTMW-4S
3542637002	CTMW-4I
3542637003	CTS FD-110811
3542637004	CTS FB-110811
3542637005	Metals Trip Blank -110811


JUL 16 2012
RECEIVED

Sincerely,

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 Wells

Pace Project Number: 3542637

Date Received: 11/08/2011

Report Date: 11/21/2011

CU: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

Order # : 3542637001

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

Diameter (in) : 2
 Depth to Water (ft) : 10.61
 Total Depth (ft) : 32.45
 Top of Casing (ft) : 20.95
 Evacuation (gal) : 16

Sheen : None
 Color : Light Yellow
 Odor : None
 Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : N/A
 Test Side ID # : CTMW-4S
 Well Name : CTMW-4S
 Classification of Ground Water : G-II
 Groundwater Elevation (NGVD) : 10.34

Sampling Date/Time : 11/08/2011 11:26
 Report Period : 2011/Q4
 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	Composite	N		11/08/2011 11:26	438 umhos/cm		umhos/cm	1
000010	Field Temperature	Composite	N		11/08/2011 11:26	26.5 deg C		deg C	1
000664	Field pH	Composite	N		11/08/2011 11:26	6.5 Std. Units		Std. Units	1
082078	Turbidity	Composite	N		11/08/2011 11:26	1.96 NTU		NTU	1

OTHER

000593	Chloride	Composite	N	EPA 300.0	11/09/2011 22:24	21.2 mg/L	0.25	0.50	mg/L	1
000620	Nitrate as N	Composite	N	EPA 300.0	11/09/2011 22:24	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Composite	N	EPA 300.0	11/09/2011 22:24	32.8 mg/L	0.25	0.50	mg/L	1
000599	Nitrogen, Ammonia	Composite	N	EPA 350.1	11/10/2011 12:35	0.10 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Composite	N	EPA 351.2	11/16/2011 11:23	0.46 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Composite	N	EPA 410.4	11/10/2011 16:00	45.1 mg/L	12.5	20.0	mg/L	1
	True Color	Composite	N	SM 2120B	11/10/2011 10:00	100 units	25.0	25.0	units	5
	Threshold Odor Number	Composite	N	SM 2150B	11/09/2011 11:00	<1.0 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Composite	N	SM 2320B	11/16/2011 11:28	142 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Composite	N	SM 2540C	11/09/2011 17:47	273 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Composite	N	SM 4500-S2E	11/10/2011 10:30	<1.8 mg/L	1.8	1.8	mg/L	1
	Surfactants	Composite	N	SM 5540C	11/10/2011 09:45	0.10 mg/L	0.059	0.20	mg/L	1

INORGANICS

000572	Lead	Composite	N	EPA 200.8	11/09/2011 18:07	<0.50 ug/L	0.50	1.0	ug/L	1
001002	Arsenic	Composite	N	EPA 6010	11/10/2011 04:52	13.3 ug/L	5.0	10.0	ug/L	1
001007	Barium	Composite	N	EPA 6010	11/10/2011 04:52	29.6 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Composite	N	EPA 6010	11/10/2011 04:52	<0.50 ug/L	0.50	1.0	ug/L	1
001034	Chromium	Composite	N	EPA 6010	11/10/2011 04:52	2.7 ug/L	2.5	5.0	ug/L	1
001042	Copper	Composite	N	EPA 6010	11/10/2011 04:52	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/10/2011 04:52	1980 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Composite	N	EPA 6010	11/10/2011 04:52	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/10/2011 04:52	14.2 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:37	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Total Petroleum Hydrocarbons	Composite	N	EPA 1664A	11/09/2011 22:39	<1.5 mg/L	1.5	5.2	mg/L	1
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Order # : 3542637002

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

Diameter (in) : 2
 Depth to Water (ft) : 10.70
 Total Depth (ft) : 69.42
 Top of Casing (ft) : 21.07
 Evacuation (gal) : 30

Sheen : None
 Color : Light Yellow
 Odor : None
 Matrix : Ground Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : N/A
 Test Side ID # : CTMW-4I
 Well Name : CTMW-4I
 Classification of Ground Water : G-II
 Groundwater Elevation (NGVD) : 10.37

Sampling Date/Time : 11/08/2011 11:13
 Report Period : 2011/Q4
 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	Composite	N		11/08/2011 11:13	486 umhos/cm		umhos/cm	1
000010	Field Temperature	Composite	N		11/08/2011 11:13	26.3 deg C		deg C	1
000664	Field pH	Composite	N		11/08/2011 11:13	6.82 Std. Units		Std. Units	1
082078	Turbidity	Composite	N		11/08/2011 11:13	0.48 NTU		NTU	1

OTHER

000593	Chloride	Composite	N	EPA 300.0	11/09/2011 22:40	30.4 mg/L	0.25	0.50	mg/L	1
000620	Nitrate as N	Composite	N	EPA 300.0	11/09/2011 22:40	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Composite	N	EPA 300.0	11/09/2011 22:40	24.3 mg/L	0.25	0.50	mg/L	1
000599	Nitrogen, Ammonia	Composite	N	EPA 350.1	11/10/2011 12:36	0.14 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Composite	N	EPA 351.2	11/16/2011 11:24	0.48 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Composite	N	EPA 410.4	11/10/2011 16:00	44.0 mg/L	12.5	20.0	mg/L	1
	True Color	Composite	N	SM 2120B	11/10/2011 10:00	80.0 units	10.0	10.0	units	2
	Threshold Odor Number	Composite	N	SM 2150B	11/09/2011 11:00	<1.0 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Composite	N	SM 2320B	11/16/2011 11:28	166 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Composite	N	SM 2540C	11/09/2011 17:47	297 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Composite	N	SM 4500-S2E	11/10/2011 10:30	<1.8 mg/L	1.8	1.8	mg/L	1
	Surfactants	Composite	N	SM 5540C	11/10/2011 09:45	0.11 mg/L	0.059	0.20	mg/L	1

INORGANICS

000572	Lead	Composite	N	EPA 200.8	11/09/2011 18:14	<0.50 ug/L	0.50	1.0	ug/L	1
001002	Arsenic	Composite	N	EPA 6010	11/10/2011 04:56	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Composite	N	EPA 6010	11/10/2011 04:56	8.4 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Composite	N	EPA 6010	11/10/2011 04:56	<0.50 ug/L	0.50	1.0	ug/L	1
001034	Chromium	Composite	N	EPA 6010	11/10/2011 04:56	<2.5 ug/L	2.5	5.0	ug/L	1
001042	Copper	Composite	N	EPA 6010	11/10/2011 04:56	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/10/2011 04:56	511 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Composite	N	EPA 6010	11/10/2011 04:56	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/10/2011 04:56	22.3 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:47	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Total Petroleum Hydrocarbons	Composite	N	EPA 1664A	11/09/2011 22:39	<1.4 mg/L	1.4	5.2	mg/L	1
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Order # : 3542637003

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

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

Project Name : Central Transfer Station
 Sheen :
 Color :
 Odor :
 Matrix :

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : N/A
 Test Side ID # : CTSPD-110811
 Well Name : CTS FD-110811
 Classification of Ground Water : Field Duplicate
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 11/08/2011 11:26
 Report Period : 2011/Q4
 Well Purge (Y/N) : Y
 Well Type : () Background
 () Intermediate
 () 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	Composite	N		11/08/2011 11:26	438 umhos/cm		umhos/cm	1
000010	Field Temperature	Composite	N		11/08/2011 11:26	26.5 deg C		deg C	1
000664	Field pH	Composite	N		11/08/2011 11:26	6.50 Std. Units		Std. Units	1
000299	Oxygen, Dissolved	Composite	N		11/08/2011 11:26	0.70 mg/L		mg/L	1
082078	Turbidity	Composite	N		11/08/2011 11:26	1.96 NTU		NTU	1

OTHER

000593	Chloride	Composite	N	EPA 300.0	11/09/2011 22:56	21.5 mg/L	0.25	0.50	mg/L	1
000620	Nitrate as N	Composite	N	EPA 300.0	11/09/2011 22:56	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Composite	N	EPA 300.0	11/09/2011 22:56	34.3 mg/L	0.25	0.50	mg/L	1
000599	Nitrogen, Ammonia	Composite	N	EPA 350.1	11/10/2011 12:38	0.11 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Composite	N	EPA 351.2	11/16/2011 11:26	0.50 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Composite	N	EPA 410.4	11/10/2011 16:00	47.2 mg/L	12.5	20.0	mg/L	1
	True Color	Composite	N	SM 2120B	11/10/2011 10:00	100 units	10.0	10.0	units	2
	Threshold Odor Number	Composite	N	SM 2150B	11/09/2011 11:00	<1.0 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Composite	N	SM 2320B	11/16/2011 11:28	142 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Composite	N	SM 2540C	11/09/2011 17:47	270 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Composite	N	SM 4500-S2E	11/10/2011 10:30	<1.8 mg/L	1.8	1.8	mg/L	1
	Surfactants	Composite	N	SM 5540C	11/09/2011 18:00	0.091 mg/L	0.059	0.20	mg/L	1

INORGANICS

000572	Lead	Composite	N	EPA 200.8	11/09/2011 18:17	<0.50 ug/L	0.50	1.0	ug/L	1
001002	Arsenic	Composite	N	EPA 6010	11/10/2011 05:08	14.4 ug/L	5.0	10.0	ug/L	1
001007	Barium	Composite	N	EPA 6010	11/10/2011 05:08	29.2 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Composite	N	EPA 6010	11/10/2011 05:08	<0.50 ug/L	0.50	1.0	ug/L	1
001034	Chromium	Composite	N	EPA 6010	11/10/2011 05:08	2.9 ug/L	2.5	5.0	ug/L	1
001042	Copper	Composite	N	EPA 6010	11/10/2011 05:08	<2.5 ug/L	2.5	5.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/10/2011 05:08	2020 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Composite	N	EPA 6010	11/10/2011 05:08	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/10/2011 05:08	14.0 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:50	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Total Petroleum Hydrocarbons	Composite	N	EPA 1664A	11/09/2011 22:39	<1.5 mg/L	1.5	5.3	mg/L	1
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Order # : 3542637004

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

Project Name : Central Transfer Station

Diameter (in) :

Sheen : None

Depth to Water (ft) :

Color : Clear

Total Depth (ft) :

Odor : None

Top of Casing (ft) :

Matrix : Ground Water

Evacuation (gal) :

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : N/A

Sampling Date/Time : 11/08/2011 10:58

Test Side ID # : CTS FB-110811

Report Period : 2011/Q4

Well Name : CTS FB-110811

Well Purge (Y/N) : N

Classification of Ground Water : Field Blank

Well Type : Background

Groundwater Elevation (NGVD) : _____

Intermediate

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	Composite	N		11/08/2011 10:58	8.1 umhos/cm		umhos/cm	1
000010	Field Temperature	Composite	N		11/08/2011 10:58	23.6 deg C		deg C	1
000664	Field pH	Composite	N		11/08/2011 10:58	7.82 Std. Units		Std. Units	1
082078	Turbidity	Composite	N		11/08/2011 10:58	0.17 NTU		NTU	1

OTHER

000593	Chloride	Composite	N	EPA 300.0	11/09/2011 23:44	0.40 lmg/L	0.25	0.50	mg/L	1
000620	Nitrate as N	Composite	N	EPA 300.0	11/09/2011 23:44	<0.025 mg/L	0.025	0.050	mg/L	1
000945	Sulfate	Composite	N	EPA 300.0	11/09/2011 23:44	<0.25 mg/L	0.25	0.50	mg/L	1
000599	Nitrogen, Ammonia	Composite	N	EPA 350.1	11/10/2011 12:39	<0.020 mg/L	0.020	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Composite	N	EPA 351.2	11/16/2011 11:27	<0.086 mg/L	0.086	0.50	mg/L	1
000340	Chemical Oxygen Demand	Composite	N	EPA 410.4	11/10/2011 16:00	<12.5 mg/L	12.5	20.0	mg/L	1
	True Color	Composite	N	SM 2120B	11/10/2011 10:00	<5.0 units	5.0	5.0	units	1
	Threshold Odor Number	Composite	N	SM 2150B	11/09/2011 11:00	<1.0 TON	1.0	1.0	TON	1
000410	Alkalinity, Total as CaCO3	Composite	N	SM 2320B	11/16/2011 11:28	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Composite	N	SM 2540C	11/09/2011 17:48	<5.0 mg/L	5.0	5.0	mg/L	1
000745	Sulfide	Composite	N	SM 4500-S2E	11/10/2011 10:30	<1.8 mg/L	1.8	1.8	mg/L	1
	Surfactants	Composite	N	SM 5540C	11/10/2011 09:45	0.067 lmg/L	0.059	0.20	mg/L	1

INORGANICS

000572	Lead	Composite	N	EPA 200.8	11/09/2011 18:19	<0.50 ug/L	0.50	1.0	ug/L	1
001002	Arsenic	Composite	N	EPA 6010	11/12/2011 17:08	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Composite	N	EPA 6010	11/12/2011 17:08	<5.0 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Composite	N	EPA 6010	11/12/2011 17:08	<0.50 ug/L	0.50	1.0	ug/L	1
001034	Chromium	Composite	N	EPA 6010	11/12/2011 17:08	<2.5 ug/L	2.5	5.0	ug/L	1
001042	Copper	Composite	N	EPA 6010	11/12/2011 17:08	<2.5 CU ug/L	2.5	5.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/12/2011 17:08	<20.0 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Composite	N	EPA 6010	11/12/2011 17:08	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/12/2011 17:08	<0.50 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:52	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Total Petroleum Hydrocarbons	Composite	N	EPA 1664A	11/09/2011 22:40	<1.4 mg/L	1.4	5.2	mg/L	1
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Order # : 3542637005

Pace Analytical Services, Inc.

Client : Palm Beach Solid Waste Authority

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

Project Name : Central Transfer Station
 Sheen : None
 Color : Clear
 Odor : None
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility GMS # : N/A
 Test Side ID # : Metals Trip Blank-110811
 Well Name : Metals Trip Blank -110811
 Classification of Ground Water : Trip Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 11/08/2011 08:00
 Report Period : 2011/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

000572	Lead	Composite	N	EPA 200.8	11/09/2011 18:21	<0.50 ug/L	0.50	1.0	ug/L	1
001002	Arsenic	Composite	N	EPA 6010	11/12/2011 17:20	<5.0 ug/L	5.0	10.0	ug/L	1
001007	Barium	Composite	N	EPA 6010	11/12/2011 17:20	<5.0 ug/L	5.0	10.0	ug/L	1
001027	Cadmium	Composite	N	EPA 6010	11/12/2011 17:20	<0.50 ug/L	0.50	1.0	ug/L	1
001034	Chromium	Composite	N	EPA 6010	11/12/2011 17:20	<2.5 ug/L	2.5	5.0	ug/L	1
001042	Copper	Composite	N	EPA 6010	11/12/2011 17:20	<2.5CU ug/L	2.5	5.0	ug/L	1
001045	Iron	Composite	N	EPA 6010	11/12/2011 17:20	<20.0 ug/L	20.0	40.0	ug/L	1
001147	Selenium	Composite	N	EPA 6010	11/12/2011 17:20	<7.5 ug/L	7.5	15.0	ug/L	1
000929	Sodium	Composite	N	EPA 6010	11/12/2011 17:20	<0.50 mg/L	0.50	1.0	mg/L	1
000576	Mercury	Composite	N	EPA 7470	11/10/2011 01:55	<0.10 ug/L	0.10	0.20	ug/L	1

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-)

1 Field Blank (CTSFB-) Optional*

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

D. Well Information (field)

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

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 1-8-11
WELL NO: CTMW-4S	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE LOCATION: 1810 Lantana Road, Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 20.95	Static Depth To Water (ft): 10.61	Water Table Elevation NGVD (ft): 10.34	Column Height (ft): 21.84	Total Well Depth (ft): 32.45'					
WELLDIAMETER (in): 2" PVC		1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 4							
WELL CAPACITY (gal/ft): 0.16		= (32.45' - 10.61 = 21.84) X 0.16 = 3.49 GALLONS							
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 10:59	PURGE ENDED AT: 11:25	TOTAL VOL. PURGED (gal): 16					
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	.62	10.73	6.15	26.4	409	1.03	8.60
1	4	8	.62	10.73	6.41	26.7	429	.99	5.52
1	4	12	.62	10.73	6.51	26.6	439	.67	2.95
1	4	16	.62	10.73	6.50	26.5	438	.70	1.96
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.50	26.5	438	—	1.96
Color: lt-yellow	Odor: None	Sheen: None	Comments						

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: 11:26	SAMPLING ENDED AT:	Weather: Partly sunny + warm			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: (C) 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		6.0	Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) B. Downey MA Alvarez			SAMPLER(S) SIGNATURE(S) B. Downey MA Alvarez			

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 11-8-11
WELL NO: CTMW-4I	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE LOCATION: 1810 Lantana Road, Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 21.07	Static Depth To Water (ft): 10.70	Water Table Elevation NGVD (ft): 10.37	Column Height (ft): 58.72	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' - 10.70 = 58.72) X 0.16 = 9.39 GALLONS							
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 10:53	PURGE ENDED AT: 11:12	TOTAL VOL. PURGED (gal): 30					
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	10	10	1.4	11.12	6.72	26.4	488	1.33	1.98
1	10	20	1.4	11.12	6.80	26.4	490	1.38	.75
1	10	30	1.4	11.12	6.82	26.3	486	.89	.48
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.82	26.3	486	—	.48
Color: <i>Yellow</i>	Odor: <i>None</i>	Sheen: <i>None</i>	Comments						

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: 11:13	SAMPLING ENDED AT: 11:25	Weather: Partly sunny + warm			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y				
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	2.0		Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) B. Downey M Alvarez				SAMPLER(S) SIGNATURE(S) <i>Brenda Downey</i>		

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS FIELD DUPLICATE DATA SHEET

Sample Type: GRAB COMPOSITE
 Site Identification: Central County Transfer Station
 Date: 1-8-11
 Sample I.D. CTSFD-110811
 Time: —

Notes and Comments
 —
 PH < 2.0
 in preservative

Field Parameters		Units	Sample
Temperature		C	Appearance
Cond: X	_____	uMHOS/cm	
	ATC		
PH		Std Units	
DO		Mg/L	
Other			

Sample Container Inventory				
Quantity	Size	Type	Preservative	Analysis

Sampled By: Brenda Davery
Paul Davery

Method of Shipment: _____

SOLID WASTE AUTHORITY DIVISION OF ENVIRONMENTAL PROGRAMS FIELD BLANK DATA SHEET

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

Date: 1-8-11

Sample I.D. CTSFB- 110811

Time: 10:58

Notes and Comments
pty sunny
+ w arm
 PH < 2.0
 in preservative

Field Parameters		Units	Sample
Temperature	<u>23.6</u>	C	Appearance
Cond: X	<u>8.1</u> ATC	uMHOS/cm	<u>clear</u> <u>no odor</u> <u>no smell</u>
PH	<u>7.82</u>	Std Units	
DO		Mg/L	
Other <u>Turb</u>	<u>0.17</u>	<u>NTU</u>	

Sample Container Inventory				
Quantity	Size	Type	Preservative	Analysis

Sampled By: Brenda Deering

Method of Shipment: Parcel