

RECEIVED

DEC 01 2008

TOM SIRNA
PBSWA
7501 N. JOG RD.
WEST PALM BEACH, FL 33412

Log #: L264781
Report Period: 2008/Q4

Client Project ID: CENTRAL COUNTY TRANSFER STATION-MON WELLS
Collected by: Customer Sampled

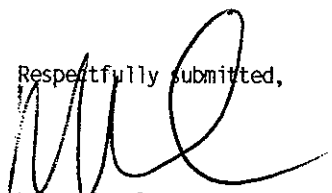
Laboratory Sample #	Client Sample #
L264781-1	CTMW-2S
L264781-2	CTMW-2I
L264781-3	METALS BLANK

FLDOH/NELAC# E86240
GA CERT# 917
IL/NELAC CERT# 200020
VA CERT# 00395

KS/NELAC# E-10360
ADEM ID# 40850
TN CERT# 02985
USDA Soil Permit# S-35240

NC CERT# 444
SC CERT# 96031001

Genapure 3231 NW 7th Avenue Boca Raton, FL 33431 (888) 862-5227

Respectfully submitted,

Mike Kimmel
Project Manager

Order #: L264781-1
 Client: PBSWA-PALM BEACH SOLID WASTE AUT

Genapure
 Report of Analysis for DEP
 CENTRAL COUNTY TRANS

Diameter (inches): 2
 Depth to Water (ft): 12.56
 Total Depth (ft): 37.31
 Top of Casing ('): NA
 Evacuation (gallons) 12

Sheen:
 Color: LT. YELLOW
 Odor: 2.00
 Matrix: Groundwater

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: NA
 Test Site ID #: NA
 Well Name: CTMW-2S
 Classification of Groundwater: G-II
 GW Elevation (NGVD): NA
 or (MSL):

Sampling Date/Time: 10/28/08 01:04 PM
 Report Period: 2008/Q4
 Well Purge Vol (gal) Y
 Well Type: C

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Dilution	Detection Limit/Units
Field Parameters								
00010	TEMPERATURE CENTIGRADE	GRAB	N	170.1	10/28 13:04	24.7 Deg. C	1	0.10 Deg. C
00094	CONDUCTIVITY FIELD	GRAB	N	120.1	10/28 13:04	529 umhos/cm	1	0.10 umhos/cm
00406	PH FIELD	GRAB	N	150.1	10/28 13:04	6.75 units	1	0.10 units
82078	TURBIDITY, FIELD	GRAB	N	180.1	10/28 13:04	9.47 ntu	1	0.10 ntu
Wet Chemistry								
00410	TOTAL ALKALINITY AS CaCO3	GRAB	N	SM2320B	11/03 12:15	193 mg/l	1	5.0 mg/l
00610	AMMONIA	GRAB	N	350.1	11/05 20:00	<0.050 mg/l	1	0.050 mg/l
00340	CHEMICAL OXYGEN DEMAND	GRAB	N	HACH 8000	11/03 06:00	13.0 mg/l	1	10. mg/l
00940	CHLORIDE	GRAB	N	300.0	10/29 18:06	24.0 mg/l	10	5.0 mg/l
00084	COLOR-LAB	GRAB	N	SM2120B	10/29 14:50	100 pcu	2	10. pcu
00745	TOTAL SULFIDE AS S	GRAB	N	SM4500S2-E	11/04 08:17	<1.0 mg/l	1	1.0 mg/l
038260	DETERGENTS MBAS	GRAB	N	SM5540C	10/30 07:45	<0.20 mg/l	1	0.20 mg/l
00620	NITRATE (AS N)	GRAB	N	300.0	10/29 18:06	1.02 mg/l	10	0.50 mg/l
	ODOR	GRAB	N	140.1	10/29 10:40	2.00 TON	1	1.0 TON
NA149	TOTAL PETROLEUM HYDROCARBONS	GRAB	N	1664	11/04 19:00	<4.0 mg/l	1	4.0 mg/l
00945	SULFATE	GRAB	N	300.0	10/29 18:06	27.0 V mg/l	10	5.0 mg/l
70300	TOTAL DISSOLVED SOLIDS	GRAB	N	SM2540C	11/04 15:46	306. V mg/l	1	10. mg/l
00625	KJELDAHL NITROGEN	GRAB	N	351.2	11/04 13:50	<0.40 mg/l	1	0.40 mg/l
Metals Analysis								
1002	ARSENIC	GRAB	N	200.8	11/07 20:08	<0.0040 mg/l	1	0.0040 mg/l
01007	BARIUM	GRAB	N	3010/6010B	11/03 00:18	0.0188 mg/l	1	0.010 mg/l
01027	CADMIUM	GRAB	N	3010/6010B	11/03 00:18	<0.0020 mg/l	1	0.0020 mg/l
01034	CHROMIUM	GRAB	N	3010/6010B	11/03 00:18	<0.0050 mg/l	1	0.0050 mg/l
01042	COPPER	GRAB	N	3010/6010B	11/03 00:18	0.00674 mg/l*	1	0.0050 mg/l
01045	IRON	GRAB	N	3010/6010B	11/03 00:18	2.74 mg/l	1	0.10 mg/l
01051	LEAD	GRAB	N	200.8	11/07 20:08	<0.0040 mg/l	1	0.0040 mg/l
01147	SELENIUM	GRAB	N	3010/6010B	11/03 00:18	<0.010 mg/l	1	0.010 mg/l
00929	SODIUM	GRAB	N	3010/6010B	11/03 00:18	19.9 mg/l	1	0.50 mg/l

71900 MERCURY

GRAB N

245.1

11/05 12:40 <0.00020 mg/l

1

0.00020 mg/l

**** NOTES CONCERNING THE ABOVE SAMPLE ****

COPPER - V

Order #: L264781-2
 Client: PBSWA-PALM BEACH SOLID WASTE AUT

Genapure
 Report of Analysis for DEP
 CENTRAL COUNTY TRANS

Diameter (inches): 2
 Depth to Water (ft): 12.5
 Total Depth (ft): 72.65
 Top of Casing ('): NA
 Evacuation (gallons) 30

Sheen:
 Color: LT. YELLOW
 Odor: ND
 Matrix: Groundwater

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: NA
 Test Site ID #: NA
 Well Name: CTMW-2I
 Classification of Groundwater: G-II
 GW Elevation (NGVD): NA
 or (MSL):

Sampling Date/Time: 10/28/08 01:15 PM
 Report Period: 2008/Q4
 Well Purge Vol (gal) Y
 Well Type: C

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Dilution	Detection Limit/Units
Field Parameters								
00010	TEMPERATURE CENTIGRADE	GRAB	N	170.1	10/28 13:15	24.0 Deg. C	1	0.10 Deg. C
00094	CONDUCTIVITY FIELD	GRAB	N	120.1	10/28 13:15	395 umhos/cm	1	0.10 umhos/cm
00406	PH FIELD	GRAB	N	150.1	10/28 13:15	7.30 units	1	0.10 units
82078	TURBIDITY, FIELD	GRAB	N	180.1	10/28 13:15	0.51 ntu	1	0.10 ntu
Wet Chemistry								
00410	TOTAL ALKALINITY AS CaCO3	GRAB	N	SM2320B	11/03 12:15	154 mg/l	1	5.0 mg/l
00610	AMMONIA	GRAB	N	350.1	11/05 20:00	<0.050 mg/l	1	0.050 mg/l
00340	CHEMICAL OXYGEN DEMAND	GRAB	N	HACH 8000	11/03 06:00	11.0 mg/l	1	10. mg/l
00940	CHLORIDE	GRAB	N	300.0	10/29 18:53	36.8 mg/l	10	5.0 mg/l
00084	COLOR-LAB	GRAB	N	SM2120B	10/29 14:50	40.0 pcu	1	5.0 pcu
00745	TOTAL SULFIDE AS S	GRAB	N	SM4500S2-E	11/04 08:17	<1.0 mg/l	1	1.0 mg/l
038260	DETERGENTS MBAS	GRAB	N	SM5540C	10/30 07:45	<0.20 mg/l	1	0.20 mg/l
00620	NITRATE (AS N)	GRAB	N	300.0	10/29 18:53	1.01 mg/l	10	0.50 mg/l
	ODOR	GRAB	N	140.1	10/29 10:40	<1.0 TON	1	1.0 TON
NA149	TOTAL PETROLEUM HYDROCARBONS	GRAB	N	1664	11/04 19:00	<4.0 mg/l	1	4.0 mg/l
00945	SULFATE	GRAB	N	300.0	10/29 18:53	36.8 V mg/l	10	5.0 mg/l
70300	TOTAL DISSOLVED SOLIDS	GRAB	N	SM2540C	11/04 15:46	271. V mg/l	1	10. mg/l
00625	KJELDAHL NITROGEN	GRAB	N	351.2	11/04 13:50	0.404 mg/l	1	0.40 mg/l
Metals Analysis								
1002	ARSENIC	GRAB	N	200.8	11/07 20:12	<0.0040 mg/l	1	0.0040 mg/l
01007	BARIUM	GRAB	N	3010/6010B	11/03 00:24	<0.010 mg/l	1	0.010 mg/l
01027	CADMIUM	GRAB	N	3010/6010B	11/03 00:24	<0.0020 mg/l	1	0.0020 mg/l
01034	CHROMIUM	GRAB	N	3010/6010B	11/03 00:24	<0.0050 mg/l	1	0.0050 mg/l
01042	COPPER	GRAB	N	3010/6010B	11/03 00:24	<0.0050 mg/l	1	0.0050 mg/l
01045	IRON	GRAB	N	3010/6010B	11/03 00:24	1.02 mg/l	1	0.10 mg/l
01051	LEAD	GRAB	N	200.8	11/07 20:12	<0.0040 mg/l	1	0.0040 mg/l
01147	SELENIUM	GRAB	N	3010/6010B	11/03 00:24	<0.010 mg/l	1	0.010 mg/l
00929	SODIUM	GRAB	N	3010/6010B	11/03 00:24	11.3 mg/l	1	0.50 mg/l

71900 MERCURY

GRAB N 245.1

11/05 12:43 <0.00020 mg/l

1

0.00020 mg/l

Order #: L264781-3
 Client: PBSWA-PALM BEACH SOLID WASTE AUT

Genapure
 Report of Analysis for DEP
 CENTRAL COUNTY TRANS

Diameter (): NA
 Depth to Water (): NA
 Total Depth (): NA
 Top of Casing (): NA
 Evacuation (): NA

Sheen:
 Color:
 Odor:
 Matrix: DI Water

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: NA
 Test Site ID #: NA
 Well Name: METALS BLANK
 Classification of Groundwater: G-N
 GW Elevation (NGVD): NA
 or (MSL):

Sampling Date/Time: 10/28/08 00:00 PM
 Report Period: 2008/Q4
 Well Purge Vol (gal) N
 Well Type: N

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Dilution	Detection Limit/Units
Metals Analysis								
	1002 ARSENIC	GRAB	N	200.8	11/07 20:16	<0.0040 mg/l	1	0.0040 mg/l
	01007 BARIUM	GRAB	N	3010/6010B	11/03 00:30	<0.010 mg/l	1	0.010 mg/l
	01027 CADMIUM	GRAB	N	3010/6010B	11/03 00:30	<0.0020 mg/l	1	0.0020 mg/l
	01034 CHROMIUM	GRAB	N	3010/6010B	11/03 00:30	<0.0050 mg/l	1	0.0050 mg/l
	01042 COPPER	GRAB	N	3010/6010B	11/03 00:30	0.00888 mg/l*	1	0.0050 mg/l
	01045 IRON	GRAB	N	3010/6010B	11/03 00:30	<0.10 mg/l	1	0.10 mg/l
	01051 LEAD	GRAB	N	200.8	11/07 20:16	<0.0040 mg/l	1	0.0040 mg/l
	01147 SELENIUM	GRAB	N	3010/6010B	11/03 00:30	<0.010 mg/l	1	0.010 mg/l
	00929 SODIUM	GRAB	N	3010/6010B	11/03 00:30	<0.50 mg/l	1	0.50 mg/l
	71900 MERCURY	GRAB	N	245.1	11/05 12:46	<0.00020 mg/l	1	0.00020 mg/l

**** NOTES CONCERNING THE ABOVE SAMPLE ****

COPPER - V

CENTRAL COUNTY TRANSFER STATION MONITORING WELLS

8 Monitor Wells:

(CTMW-1S, CTMW-1I) (CTMW-2S, CTW-2I) (CTMW-3S, CTMW-3I) (CTMW-4S, CTMW-4I)

1 Field Duplicate (CTSFD-)

1 Field Blank (CTSFB-)* Optional

Parameters (Matrix Groundwater)

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 Kjehdahl Nitrogen)	Sulfate
Color	TDS (Total Dissolved Solids)	
Chloride	TRPH (Total Recoverable Petroleum Hydrocarbons)	

C. FIELD PARAMETERS

WELL INFORMATION (field)

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

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

2 of 2

COCA

188 300


Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 10-28-08
WELL NO: CTMW-2S	Well Type: Compliance	Well Location: West of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, FL

PVC PURGING DATA

Top of Casing Elevation (ft):	Static Depth To Water (ft): 12.56	Water Table Elevation NGVD (ft):	Column Height (ft): 24.75	Total Well Depth (ft): 37.31'					
WELLDIAMETER (in): 2" PVC		1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 4							
WELL CAPACITY (gal/ft): 0.16		= (37.31 - 12.56 = 24.75) X 0.16 = 3.96 GALLONS							
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 12:47	PURGE ENDED AT: 13:03	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	.80	12.65	6.64	24.6	532	1.88	54.8
1	4	8	.80	12.65	6.67	24.6	530	1.56	24.5
1	4	12	.80	12.65	6.75	24.7	529	1.92	9.47
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					6.75	24.7	529	—	9.47
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: 13:04	SAMPLING ENDED AT: 13:10	Weather: Sunny, windy, cool		
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y R			
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	
1	HDPE	1-LITER	HNO3		Metals
2	HDPE		H2SO4	120	Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)					
SAMPLED BY (PRINT): B Dawney M Tyson				SAMPLER(S) SIGNATURE(S): 	

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 10-28-08
WELL NO: CTMW-2I	Well Type: Compliance	Well Location: West of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, FL

PURGING DATA

Top of Casing Elevation(ft):	Static Depth To Water (ft): 12.5	Water Table Elevation NGVD (ft):	Column Height (ft): 60.08	Total Well Depth (ft): 72.65'						
WELLDIAMETER (in): 2" PVC		$1 \text{ WELL VOLUME (gal)} = (\text{TOTAL WELL DEPTH} - \text{DEPTH TO WATER}) \times \text{WELL CAPACITY} = 10$ $= (72.65 - 12.57) \times 0.16 = 9.61 \text{ GALLONS}$								
WELL CAPACITY (gal/ft): 0.16		30								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 12:48	PURGE ENDED AT: 13:14	TOTAL VOL PURGED (gal):						
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	1.18	12.73	6.80	24.0	396	1.20	10.4	
1	10	20	1.18	12.73	6.91	24.1	394	1.00	1.06	
1	10	30	1.18	12.73	7.00	24.0	395	1.05	1.51	
FINAL FIELD VALUES →					ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
						7.30	24.0	395	—	.51
Color:	Odor:	Sheen:	Comments							
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: 13:15	SAMPLING ENDED AT: 13:20	Weather: Sunny windy cool			
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		2.20	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT): B Downing, N Tyson				SAMPLER(S) SIGNATURE(S): Breck Jones, M.D.		



Genapure
Analytical Services, Inc.

3231 NW 7th Ave., Boca Raton, FL 33431
www.genapure.com

CHAIN OF CUSTODY RECORD

Log# 264781 T#S 3 Quote: D/A Page 1 of 2

Company Name: PR SWA PO#
Address: 7501 N. Jog Rd
City: PB State: PA Zip: 33412
Attn: Thomas Sims Fax# 640-3400
email:
Project Name: Central City Transfer
Site# 101108
Sampler Signature: [Signature] Phone# 640-4200

LAB ANALYSIS

Sample	TRC	pH	Pres Codes	Parameters	# of Containers	Size/Type
					1	16ozP
					6	
					6	

EXAMPLE
DISP. BR/RA 6010

Container Type Codes

AV	Amber Vial
ES	Encore Sampler
CV	Clear Vial
FPV	Prepreserved Vial
PLC	Plastic container
PLJ	Plastic Jar
AL	Amber Litr
CL	Clear Litr
AP	Amber Plastic
AG	Amber Glass
SL	Soil Jar
G	Gallon Jug

Other: _____
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, 400ml other, _____
Example: 4ozP = 4oz Plastic, 10x3.5oz Soil Jar

Matrix Codes*

SD	Solid Waste
WW	Waste Water
APW	Analyte Free Water
DW	Drinking Water
SW	Surface Water
AO	Aqueous
PE	Perchloric
NA	Nonaqueous
SLW	Source Water
ML	Misc Liquid
AW	Air
GW	Ground Water
O	Other (Please Specify)
EFF	Effluent
INF	Influent

Pres/Codes

A	None
E	HCL
F	MeOH
G	Na2S2O3
H	NaHSO4
I	Ice
J	MCAA
K	Zn Acetate
O	Other

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix Code	Field Filtered	Integrity OK(Y/N)	Total # of Containers	Remarks
1	CTMW-2S	6/16/04	11:35	GW	X		1	see field
2	CTMW-2I	10/28/08	13:04	GW			6	Sheet provided
3		10/28/08	13:15	GW			6	same field
4								
5								
6								
7								
8								
9								
10	Mechub Blank						1	Temp Blank

Y/N	Date Required	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time	Required State Certification	Initials	COC OK	Lab Use Only
		<u>[Signature]</u>	<u>PA</u>	<u>10/28/08</u>	<u>16:00</u>	<u>[Signature]</u>	<u>PA</u>	<u>10/28/08</u>	<u>15:30</u>		<u>[Signature]</u>		Sample INTACT upon arrival? <u>Y</u>
		<u>[Signature]</u>	<u>PA</u>	<u>10/28/08</u>	<u>17:25</u>	<u>[Signature]</u>	<u>PA</u>	<u>10/28/08</u>	<u>17:25</u>		<u>[Signature]</u>		Received on Wat Ice? Temp <u>4</u> °C
													Proper Preservation Indicated? <u>Y</u>
													Received within holding time? <u>Y</u>
													Custody seals intact? <u>Y</u>
													Violate record without retestspace? <u>Y</u>
													Proper Containers Used? <u>Y</u>

ORIGINAL