



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

Pace Project Number: 35443970
Report Period: 2019/Q1

Client Project ID: CENTRAL COUNTY TRANSFER STATIO

Lab Sample ID	Client Sample ID
35443970001	CTSW-1
35443970002	CTSSE BLANK 012419
35443970003	METAL TRIP BLANK 012419

Sincerely,

A handwritten signature in black ink that reads "Martha Montero".

Martha Montero

Florida Certifications:
E83079 - Ormond Beach
E86240 - South Florida
E87627 - Charlotte

Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :

Order # : 35443970001
 Sheen : No sheen
 Color : Lt 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-IIIIF
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 01/24/2019 13:35
 Report Period : 2019/Q1
 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		01/24/2019 13:35	401.4 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		01/24/2019 13:35	21.4 deg C			deg C	1
000664	Field pH	Grab	N		01/24/2019 13:35	6.79 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		01/24/2019 13:35	5.04 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	01/25/2019 15:09	20.7 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	01/25/2019 15:09	12.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	01/29/2019 09:44	0.079 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/01/2019 13:44	0.67 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	01/25/2019 07:50	0.062 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	01/28/2019 13:50	26.3 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	01/25/2019 09:16	161 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	01/28/2019 15:21	228 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	01/26/2019 11:32	<0.099 mg/L	0.099	0.20	mg/L	1

INORGANICS

001007	Barium	Grab	N	EPA 6010	02/01/2019 10:03	13.8 ug/L	0.84	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/01/2019 10:03	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/01/2019 10:03	140 ug/L	9.2	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/01/2019 10:03	13.9 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	02/01/2019 11:38	0.77 ug/L	0.50	1.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6020	02/01/2019 11:38	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/01/2019 11:38	9.4 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	02/01/2019 11:38	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/01/2019 11:38	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	01/28/2019 13:33	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	02/01/2019 05:31	<1.1 mg/L	1.1	5.0	mg/L	1
	Petroleum Range Organics	Grab	N	FL-PRO	01/29/2019 01:52	<0.78 mg/L	0.78	0.98	mg/L	1

Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :

Order # : 35443970002
 Sheen : No sheen
 Color : Clean
 Odor : No odor
 Matrix : DI Water

PARAMETER MONITORING REPORT

Part III Analytical Results

Facility WACS ID : PBCC01
 Test Site ID # : NA
 Well Name : CTSSE BLANK 012419
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 01/24/2019 13:30
 Report Period : 2019/Q1
 Well Purge (Y/N) : NA
 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		01/24/2019 13:30	3.9 umhos/cm			umhos/cm	1
000010	Field Temperature	Grab	N		01/24/2019 13:30	21.6 deg C			deg C	1
000664	Field pH	Grab	N		01/24/2019 13:30	6.28 Std. Units			Std. Units	1
082078	Turbidity	Grab	N		01/24/2019 13:30	0.35 NTU			NTU	1

OTHER

000593	Chloride	Grab	N	EPA 300.0	01/25/2019 16:15	<2.5 mg/L	2.5	5.0	mg/L	1
000945	Sulfate	Grab	N	EPA 300.0	01/25/2019 16:15	<2.5 mg/L	2.5	5.0	mg/L	1
000599	Nitrogen, Ammonia	Grab	N	EPA 350.1	01/29/2019 09:49	<0.035 mg/L	0.035	0.050	mg/L	1
000601	Nitrogen, Kjeldahl, Total	Grab	N	EPA 351.2	02/01/2019 13:46	<0.086 mg/L	0.086	0.50	mg/L	1
000620	Nitrogen, Nitrate	Grab	N	EPA 353.2	01/25/2019 07:49	<0.025 mg/L	0.025	0.050	mg/L	1
000340	Chemical Oxygen Demand	Grab	N	EPA 410.4	01/28/2019 13:50	<12.5 mg/L	12.5	20.0	mg/L	1
000410	Alkalinity, Total as CaCO3	Grab	N	SM 2320B	01/25/2019 09:25	<5.0 mg/L	5.0	5.0	mg/L	1
000515	Total Dissolved Solids	Grab	N	SM 2540C	01/28/2019 15:21	<5.0 mg/L	5.0	5.0	mg/L	1
038260	MBAS, Calculated as LAS	Grab	N	SM 5540C	01/26/2019 11:32	<0.099 mg/L	0.099	0.20	mg/L	1

INORGANICS

001007	Barium	Grab	N	EPA 6010	02/01/2019 10:06	<0.84 ug/L	0.84	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/01/2019 10:06	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/01/2019 10:06	<9.2 ug/L	9.2	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/01/2019 10:06	<0.27 mg/L	0.27	2.0	mg/L	1
001027	Cadmium	Grab	N	EPA 6020	02/01/2019 11:40	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/01/2019 11:40	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	02/01/2019 11:40	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/01/2019 11:40	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	01/28/2019 13:39	<0.10 ug/L	0.10	0.20	ug/L	1

ORGANICS

	Oil and Grease	Grab	N	EPA 1664B	02/01/2019 05:31	<1.1 mg/L	1.1	5.0	mg/L	1
	Petroleum Range Organics	Grab	N	FL-PRO	01/29/2019 01:52	<0.76 mg/L	0.76	0.95	mg/L	1

Pace Analytical Services, Inc.

Project Name : CENTRAL COUNTY TRANSFER STATIO
 Diameter (in) :
 Depth to Water (ft) :
 Total Depth (ft) :
 Top of Casing (ft) :

Order # : 35443970003
 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 : METAL TRIP BLANK 012419
 Classification of Ground Water : Equipment Blank
 Groundwater Elevation (NGVD) : _____

Sampling Date/Time : 01/24/2019 13:30
 Report Period : 2019/Q1
 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	02/04/2019 10:46	<7.1 ug/L	7.1	10.0	ug/L	1
001007	Barium	Grab	N	EPA 6010	02/04/2019 10:46	<0.84 ug/L	0.84	10.0	ug/L	1
001034	Chromium	Grab	N	EPA 6010	02/04/2019 10:46	<1.7 ug/L	1.7	5.0	ug/L	1
001045	Iron	Grab	N	EPA 6010	02/04/2019 10:46	<9.2 ug/L	9.2	40.0	ug/L	1
000929	Sodium	Grab	N	EPA 6010	02/04/2019 10:46	<0.27 mg/L	0.27	2.0	mg/L	1
001002	Arsenic	Grab	N	EPA 6020	02/01/2019 11:42	<0.50 ug/L	0.50	1.0	ug/L	1
001027	Cadmium	Grab	N	EPA 6020	02/01/2019 11:42	<0.050 ug/L	0.050	0.10	ug/L	1
001042	Copper	Grab	N	EPA 6020	02/01/2019 11:42	<0.93 ug/L	0.93	1.0	ug/L	1
000572	Lead	Grab	N	EPA 6020	02/01/2019 11:42	<0.50 ug/L	0.50	1.0	ug/L	1
001147	Selenium	Grab	N	EPA 6020	02/01/2019 11:42	<0.50 ug/L	0.50	1.0	ug/L	1
000576	Mercury	Grab	N	EPA 7470	01/28/2019 13:41	<0.10 ug/L	0.10	0.20	ug/L	1

CHAIN OF CUSTODY RECORD

Face Analytical
www.facelabs.com

Container Type **CV**

LAB W.O. # _____

Quote: _____

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W.O.#: 35443970



LAB ANALYSIS

Project Name: <u>Central County Transfer Station Surface Water</u>		PO#												
Address: <u>501 N. Jog Road, WPB, FL 33412</u>		Sample												
Contact: <u>Managing Hydrogeologist</u>		TRC												
Phone: <u>561 640-4000</u>		pH												
Fax: <u>561 640-3400</u>		Pres Codes												
Signature: <u>[Signature]</u>		Parameters												
Project #		Letter of: <u>1/03/19</u>												
Sampler Signature: <u>[Signature]</u>		See page <u>4</u>												
Cycle One Event: <u>Quarterly</u>		# of Containers												
Daily		Size Type												
Weekly		16ozP												
Semi-Annual		1												
Annual		1												
Monthly		1												
N/A		1												
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Filtered	Integrity OK (Y/N)	Total # of containers	Required State Certification	CO#	Condition	Date	Affiliation	Received by	Time
1	CTSIW-1	1-24-19	13:35	SW			7	FL GA SC NC NJ PA LA TX IL	0	incomplete	12/19/19	Flow	[Signature]	1440
2	CTSEBANK-012419	1-24-19	13:30	AFW			7				1/24/19	MW	[Signature]	1710
3														
4	METACTRIPBANK						1							
5														
6														
7														
8														
9														
10														

Matrix Codes	
SD	Solid Matrix
GW	Ground Water
EFF	Effluent
AFW	Analytic-Free H2O
VW	Waste Water
DW	Drinking Water
SW	Surface Water
ML	Misc. Liquid
OL	Sludge
SL	Soil Sediment
SO	Soil
AD	Aqueous
NA	Non-aqueous
PE	Platinum
C	Other

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

PROFILE 3193

SEE FIELD SHEETS FOR FIELD PARAMETERS

Non-Contaminant Found? _____
 Samples INTACT upon arrival? _____
 Received on 'Wet' log? _____
 Proper Preservation Indicated? _____
 Received within holding time? _____
 Custody seals intact? _____
 Vials/containers used without incident? _____
 Proper Containers Used? _____

WO#: 35443970

PM: MIM

Due Date: 02/04/19

CLIENT: 36-PBCSWA

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-012419 Date: 1-24-19

Time: 13:30

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: OVERCAST
CLOUDY, RAINING

Conductivity on scale X US

PH < 2 in preservative

PALE DI WATER

10-24-18

LOT# 102418-466

Bucket# J

Beaker# M

Field Parameters	Units	Standard Appearance
Temperature: 21.6	C	Color: CLEAR NO ODOR Odor: NO SHEW
Specific Cond: 3.9	uMHOS/cm	
Redox Potential		
PH: 6.28	Std. Units	
Turb: 0.35	NTU	
D.O.	Mg/L	

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis

Sampled By: BILL ROGERS

MANNY ALVAREZ

Method of Shipment

PALE

WO#: 35443970

PM: MIM

Due Date: 02/04/19

CLIENT: 36-PBCSWA

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: 1-24-19

Time: 13:35

Depth of Sample: 4"-6"

Description: Adjacent to Storm water structure in pond

Staff gauge north: N/A

Staff gauge south: 6.58

Master Pump station Meter:

Notes and Comments

Weather: OVERCAST,
CLOUDY, RAINING

Conductivity on scale X US

PH < 2 in preservative

Field Parameters	Units	Standard Appearance
Temperature:	21.4 C	Color: LIGHT YELLOW Odor: NO ODOR NO SHEEN
Specific Cond:	— uMHOS/cm	
Specific Cond: ATC	401.4 uMHOS/cm	
PH:	6.79 Std. Units	
Turb:	5.04 NTU	
D.O.	— Mg/L	

Bucket# J

Beaker# M

Sample Container Inventory

Quantity	Size	Type	Preservation	Analysis
METER	546792			

Sampled By: Bill Rogers

MANNY ALVAREZ

Method of Shipment

PACE

WO# : 35443970

PM: MIM

Due Date: 02/05/19

CLIENT: 36-PBCSWA

Pace, Martha Montero

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1st Quarter 2019 Letter dated 1/2/2019

CENTRAL COUNTY TRANSFER STATION SURFACE WATER

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

1 Surface Water: CTSW-1

1 Equipment Blank CTSSE 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)		

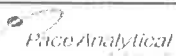
C. Field Parameters

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

READ STAFF GUAGE

READ METER AT MASTER PUMP STATION

2 of 2 coc# 118455



Document Name
Sample Collection Log/Receipt Form
Document No
FIFU-C-007 rev 13

Document Revised
May 30, 2018
Issuing Authority
Pace Florida Quality Office

WO#: 35443970

m(SCUR)

Project **PM: MIM** Due Date: **02/05/19**
Project Manage **CLIENT: 36-PBCSWA**
Client:

Date and Initials of person:
Examining contents: 01/24/19
Label: _____
Deliver: _____
pH: _____

Thermometer Used T-330 Date 01/24/19 Time 1710 Initials R

State of Origin FL For WV projects all containers verified to <6°C

Cooler #1 Temp: °C 2.6 (Visual) 10.0 (Correction Factor) 2.6 (Actual) Samples on ice, cooling process has begun
Cooler #2 Temp: °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #3 Temp: °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #4 Temp: °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #5 Temp: °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
Cooler #6 Temp: °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No 01/24/19 Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other BUBBLE BAGS

Samples shorted to lab (If Yes, complete) Shorted Date _____ Shorted Time _____ Qty _____

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Preservation Information Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____</p>
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Conform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:
Person Contacted _____ Date/Time _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review _____ Date _____