



NELAP Certificate No. E86006



1460 West McNab Road
Fort Lauderdale, FL 33309
1-800-ANALYTE Phone
(954) 978-6400 Phone
(954) 978-2233 Fax

RECEIVED
SEPT 23, 2022

Ground Water Monitoring Report

REV-1

Solid Waste Authority - Palm Beach County
Hydrogeologist
7501 North Jog Road
West Palm Beach, FL 33412

Date Received: 08/08/2022 16:00
Date Reported: 09/14/2022 22:12
Report Period: 2022Q3

Project Name: Central County Transfer Station Surface Water
Lab Work Order (COC): 22H0336

Laboratory Sample #

22H0336-01
22H0336-02
22H0336-03

Client Sample #

CTSSE Blank 080822
CTSW-1
Metal Trip Blank 8822



Central County Transfer Station Surface Water

Lab ID: 22H0336-01
Sheen: No
Color: Clear
Odor: No
Matrix: DI Water

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

Parameter Monitoring Report

WACS Facility ID #: PBCC01 **Sampling Date/Time:** 08/08/22 09:35
WACS Test Site ID#: N/A **Report Period:** 2022Q3
Well Name: CTSSE Blank 080822 **Well Purge (Y/N):**
GW Classification: N/A **Well Type:** Background Compliance
GW Elevation (NGVD): Intermediate Other (X)

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units MDL	PQL	Dil Factor
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Field Parameter (s) (See Notes and Definitions Page)

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	08/08/2022 09:35	1.459 uS/cm @ 25°C	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	08/08/2022 09:35	6.17 S.U.	S.U.		1
	Temperature (field)	GRAB	N	FDEP SOP	08/08/2022 09:35	25.3 °C	°C		1
	Turbidity (Field)	GRAB	N	FDEP SOP	08/08/2022 09:35	0.13 NTU	NTU		1

Classical Chemistry Parameters

	Oil & Grease (HEM)	GRAB	N	EPA 1664	08/30/2022 16:00	<1.30 mg/L	1.30	3.90 mg/L	1
	TRPH	GRAB	N	EPA 1664	08/30/2022 19:30	<1.39 mg/L	1.39	4.18 mg/L	1

Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	08/17/2022 19:12	<2.49 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	08/12/2022 13:27	<0.00620 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	08/09/2022 14:19	<0.126 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	08/15/2022 14:52	<2.54 mg/L	2.54	10.0 mg/L	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	08/09/2022 16:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	08/09/2022 14:19	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	08/09/2022 14:19	<0.0953 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	08/16/2022 18:45	<10.0 mg/L	10.0	30.0 mg/L	1
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	08/19/2022 13:11	<0.184 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01027	Cadmium	GRAB	N	EPA 200.8	08/19/2022 11:04	<0.0251 ug/L	0.0251	0.200 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	08/19/2022 11:04	<1.01 ug/L	1.01	4.00 ug/L	1
01051	Lead	GRAB	N	EPA 200.8	08/19/2022 11:04	<0.0638 ug/L	0.0638	0.500 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	08/11/2022 12:29	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01002	Arsenic	GRAB	N	EPA 6010/3010	08/09/2022 13:15	<3.96 ug/L	3.96	10.0 ug/L	1
01007	Barium	GRAB	N	EPA 6010/3010	08/09/2022 13:15	<0.0962 ug/L	0.0962	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	08/09/2022 13:15	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	08/09/2022 13:15	<1.69 ug/L	1.69	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	08/09/2022 13:15	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	08/09/2022 13:15	<0.521 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station Surface Water

Lab ID: 22H0336-02
Sheen: No
Color: Slight Yellow
Odor: No
Matrix: Surface Water

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

Parameter Monitoring Report

WACS Facility ID #: PBCC01 **Sampling Date/Time:** 08/08/22 09:50
WACS Test Site ID#: PBCC09 **Report Period:** 2022Q3
Well Name: CTSW-1 **Well Purge (Y/N):**
GW Classification: SW-IIIF **Well Type:** Background Compliance
GW Elevation (NGVD): N/A Intermediate Other (X)

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units MDL	PQL	Dil Factor
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Field Parameter (s) (See Notes and Definitions Page)

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	08/08/2022 09:50	336 uS/cm @ 25°C	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	08/08/2022 09:50	8.41 S.U.	S.U.		1
	Temperature (field)	GRAB	N	FDEP SOP	08/08/2022 09:50	30.6 °C	°C		1
	Turbidity (Field)	GRAB	N	FDEP SOP	08/08/2022 09:50	2.24 NTU	NTU		1

Classical Chemistry Parameters

	Oil & Grease (HEM)	GRAB	N	EPA 1664	08/30/2022 16:00	1.80 mg/L I	1.30	3.90 mg/L	1
	TRPH	GRAB	N	EPA 1664	08/30/2022 19:30	<1.39 mg/L	1.39	4.18 mg/L	1

Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	08/17/2022 19:12	57.3 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	08/12/2022 13:27	<0.00620 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	08/09/2022 14:35	41.9 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	08/15/2022 14:52	38.0 mg/L	2.54	10.0 mg/L	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	08/09/2022 16:30	0.0620 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	08/09/2022 14:35	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	08/09/2022 14:35	14.7 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	08/16/2022 18:45	204 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	08/19/2022 13:11	0.679 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01027	Cadmium	GRAB	N	EPA 200.8	08/19/2022 11:09	<0.0251 ug/L	0.0251	0.200 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	08/19/2022 11:09	4.77 ug/L	1.01	4.00 ug/L	1
01051	Lead	GRAB	N	EPA 200.8	08/19/2022 11:09	<0.0638 ug/L	0.0638	0.500 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	08/11/2022 14:09	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01002	Arsenic	GRAB	N	EPA 6010/3010	08/09/2022 13:17	<3.96 ug/L	3.96	10.0 ug/L	1
01007	Barium	GRAB	N	EPA 6010/3010	08/09/2022 13:17	6.80 ug/L	0.0962	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	08/09/2022 13:17	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	08/09/2022 13:17	8.50 ug/L I	1.69	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	08/09/2022 13:17	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	08/09/2022 13:17	22.2 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station Surface Water

Lab ID: 22H0336-03

Diameter (in):

Sheen:

Depth to Water (ft):

Color:

Top of Casing (ft):

Odor:

Total Depth (ft):

Matrix: DI Water

Parameter Monitoring Report

WACS Facility ID #:

Sampling Date/Time: 08/08/22 09:50

WACS Test Site ID#:

Report Period: 2022Q3

Well Name: Metal Trip Blank 8822

Well Purge (Y/N):

GW Classification:

Well Type: Background

Compliance

GW Elevation (NGVD):

Intermediate

Other

(X)

Storet Code	Parameter	Sample Method Grab/Comp	Field Filter Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units		
							MDL	PQL	Dil Factor

Total Recoverable Metals by EPA 200 Series Methods

01027	Cadmium	GRAB		EPA 200.8	08/19/2022 11:14	<0.0251 ug/L	0.0251	0.200 ug/L	1
01042	Copper	GRAB		EPA 200.8	08/19/2022 11:14	<1.01 ug/L	1.01	4.00 ug/L	1
01051	Lead	GRAB		EPA 200.8	08/19/2022 11:14	<0.0638 ug/L	0.0638	0.500 ug/L	1
71900	Mercury	GRAB		EPA 200.8	08/11/2022 14:11	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

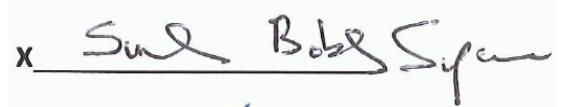
01002	Arsenic	GRAB		EPA 6010/3010	08/09/2022 13:19	<3.96 ug/L	3.96	10.0 ug/L	1
01007	Barium	GRAB		EPA 6010/3010	08/09/2022 13:19	<0.0962 ug/L	0.0962	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	08/09/2022 13:19	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	08/09/2022 13:19	<1.69 ug/L	1.69	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	08/09/2022 13:19	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	08/09/2022 13:19	<0.521 mg/L	0.521	2.00 mg/L	1

Notes and Definitions

U	Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
J3	The matrix spike recovery outside method acceptance limits indicating matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
N.O.O.	No Odor Observed
REP	Field parameter measured by client
V	Indicated that the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Z	Too many colonies were present for accurate counting.
SUB	Work performed by outside (subcontracted) labs denoted by SUB in analyst field.

QC=Qualifier Codes as defined by DEP 62-160
 Unless indicated, soil results are reported on actual (wet) weight basis.
 The Color SM2120B method is reported as (Color / pH)
 Legionella analyzed under CDC accreditation program
 Dilution factors ≥ 1000 are abbreviated using k=1000 and M=1000000
 Field parameters are not NELAP accredited.
 Results relate only to this sample.

Suresh (Bobby) Supan - CSM



Authorized CSM Signature (954) 978-6400
 Florida-Spectrum Environmental Services, Inc.
 Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "-".

WORK ORDER #

22H0334
PBC SWA



CHAIN OF CUSTODY RECORD

- 1460 W. McNab Road, Ft Laud. FL 33309
- 108 Airport Park Dr., Garden City, GA 31408
- 528 Gooch Rd., Fort Meade, FL 33841
- 20 Parrot Ave. N, Okeechobee, FL 34972
- 111 E. Easton Drive, Lakeland, FL 33803

COC# A 08316

- Tel: (954) 978-6400 Fax: (954) 978-2233
- Tel: (912) 238-5050 Fax: (912) 234-4815
- Tel: (863) 285-8145 Fax: (863) 285-7030
- Tel: (863) 763-3336 Fax: (863) 763-1544
- Tel: (863) 686-4271

DUE DATE Requested

RUSH RESERVATION #

Rush Surcharges apply

Logged in by: 7501 N. Jog Road, WPB, FL 33412
Meets Accreditation Criteria Date: 10/19/2020 Rev 3

Contact: Managing Hydrogeologist

Original-Return w/report Yellow-Lab File Copy Pink - Sampler Copy

Report to (company name) Phone: 561 640-4000	Report to Address:
Invoice to (company name) Fax: 561 640-3400	Invoice to Address:
Project Name and/or Number Central County transfer station - Surface water	Site Location:
Project Contact: Antonio Richards	Phone:
Sampler Name (printed) Manny Alvarez	Affiliation:
Sampler Signature <i>Manny Alvarez</i>	Sampler Signature <i>Manny Alvarez</i>

ORDER # Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Number of Containers Received & NELAC Letter Suffixes # A-?	Analysis Required				Field Tests				
							TEMP °C	PH	COND	CHLOR					
1	CT SSE Blank 080822	8/8/22	9:35	DI	AS 45	4	See page 4	Letter of: JUNE 15, 2022							
2	CTS W - 1	8/8/22	9:50	SW	J	4									
3															
4															
5															
6	Metal Trip Blank 8822	8/8/22	9:50	DI	JH	1									
7															
8															
9	Note: Per Kevin J. E-Mail received 9/9/22 update		Lead from 60	10 to 200.8											
10															

Special Comments: **cooler # 007**

FOUR FIELD SHEETS

FOUR FIELD PARAMETERS

Deliverables: QA/QC Report Needed? Yes No (additional charge)

<p>Sample Custody & Field Comments</p> <p>Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>As received: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>Seals? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> <p>9 GUN-1 <input checked="" type="checkbox"/></p> <p>FIELD TIME</p> <p>ling ___ hrs Pick Up ___ hrs</p> <p>Charges _____</p>	<p>Bottle Type</p> <p>A-liter amber</p> <p>B-Bacteria bag/bottle</p> <p>F-500 ml O-125 ml</p> <p>H-Plastic Amber Liter</p> <p>L-liter bottle</p> <p>S2-2 oz soil jar</p> <p>S4-4 oz soil jar / S8-8 oz soil jar</p> <p>T-250 ml</p> <p>V-40 ml vial</p> <p>W-wide mouth</p> <p>X-other TED-Tedlar Air Bag</p>	<p>Preservatives</p> <p>A-ascorbic acid</p> <p>C-HCL</p> <p>Cu-CuSO4</p> <p>DI-DI water</p> <p>H-HNO3</p> <p>M-MCAB</p> <p>MeOH-Methanol</p> <p>Z-zinc acetate</p> <p>Additional Preservatives</p> <p>Hex-Hex Cr Buffer</p> <p>EDA-Ethylene Diamine</p>
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Signature	Affiliation	Date/Time
1 Relinquished by: <i>Manny Alvarez</i>		8/8/22 13:54
1 Received by: <i>Manny Alvarez</i>		8/8/22 13:54
2 Relinquished by: <i>Manny Alvarez</i>		8/8/22 16:00
2 Received by: <i>Manny Alvarez</i>		8/8/22 16:00
3 Relinquished by: _____		
3 Received by: _____		

www.flenviro.com COC Page 1 of 2

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22-10336

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

Total Ammonia	Nitrate	Oil & Grease
Total Alkalinity	TKN	Sulfate
COD	TDS	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

Page 2 of 2
COC # 08316
Dated: 08/08/22

**Solid Waste Authority of Palm Beach County
Equipment Blank – Surface Water**

SITE NAME: Central County Transfer Station Surface Water	WACS Facility ID: PBCC01	DATE: 08/08/2022
Sample name: CTSSE Blank 080822	WACS Test Site ID: N/A	SAMPLE TIME: 9:35
Matrix: DI Water	Site Location: 1810 Lantana Road - Lantana, FL	

Description:
Equipment Blanks are collected before sampling. Laboratory supplied DI water is poured into the pre-cleaned equipment and then poured into sample bottles.

Classification of Ground Water: N/A	Weather Conditions: Sunny + HOT		
Sample Method: GRAB	Stainless Steel Bucket #: F	Stainless Steel Beaker #: A	DI Water Lot # 7/27/22

Equipment Blank - Field Data

FIELD VALUES →	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
	6.17	25.3	1.459	NOT REQUIRED	0.13
Color: clear	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 8822		Cooler # 007

SAMPLING DATA

FIELD DECONTAMINATION: No			FIELD-FILTERED: No			DUPLICATE: Y <input type="radio"/> N <input checked="" type="radio"/>	
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	None	<2.0	Metals	
2	HDPE		H2SO4	None	<2.0	Ammonia, COD, TKN	
3	AG		H2SO4	None	<2.0	OIL & GREASE, TRPH	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)							
SAMPLED BY (PRINT) ANTONIO RICHARD			SAMPLER(S) SIGNATURE(S) Manny Alvarez				

**Solid Waste Authority of Palm Beach County
SURFACE WATER SAMPLING LOG**

SITE NAME: Central County Transfer Station - Surface Water		WACS Facility ID: PBCC01		DATE: 08/08/2022
Sample name:: CTSW-1	Matrix: Surface Water	WACS Test Site ID: PBCC09		SAMPLE TIME: 9:50
Sample Location: 1810 Lantana Road Lantana, Fl.		Description: Adjacent to Storm Water Structure on East side in pond		Discharge Elevation: ft NGVD. N/A
Classification of Surface water: SW-IIIIF	Depth of Sample: 6"-8"	Staff Gauge Reading: S Side of pond 7.62 (ft NGVD)		Weather Conditions: Sunny + HOT
Discharging No Discharge Structure exists	Sample Method GRAB	Stainless Steel Bucket # F	Stainless Steel Beaker # A	Cooler # 007

Surface Water - Field Data

FIELD VALUES →	Other	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
		8.41	30.6	336	NOT REQUIRED	2.24
Color: Slight yellow	Odor: NO	Sheen: NO	Surface Water Conditions (Aquatic Vegetation coverage, is DS full or dry) Metal Trip Blank 8822 NO VEGETATION			Meter Reading: 180299

SAMPLING DATA

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		HNO3	None	2.0	Metals
2	HDPE		H2SO4	None	2.0	Ammonia, COD, TKN
3	AG		H2SO4	None	2.0	OIL & GREASE, TRPH
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) Manu Alvarez Antonio				SAMPLER(S) SIGNATURE(S) 