



NELAP Certificate No. E86006



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

### Ground Water Monitoring Report

**RECEIVED**  
**SPET 29, 2021**

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

Date Received: 08/30/2021 16:15  
Date Reported: 09/29/2021 21:44  
Report Period: 2021Q3

**Project Name: Central County Transfer Station Surface Water**  
**Lab Work Order (COC): 21H1091**

**Laboratory Sample #**

21H1091-01  
21H1091-02  
21H1091-03

**Client Sample #**

CTSSE Blank 083021  
CTSW-1  
Metal Trip Blank 83021



Central County Transfer Station Surface Water

Lab ID: 21H1091-01

Diameter (in):

Sheen: No

Depth to Water (ft):

Color: Clear

Top of Casing (ft):

Odor: No

Total Depth (ft):

Matrix: DI

**Parameter Monitoring Report**

WACS Facility ID #:

Sampling Date/Time: 08/30/21 09:20

WACS Test Site ID#:

Report Period: 2021Q3

Well Name: CTSSE Blank 083021

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		Dil Factor
							MDL	PQL	

**Field Parameter (s) (See Notes and Definitions Page)**

00402	Specific Conductance (field)	GRAB		FDEP SOP	08/30/2021 09:20	1.38 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB		FDEP SOP	08/30/2021 09:20	6.23 pH Units		pH Units	1
	Temperature (field)	GRAB		FDEP SOP	08/30/2021 09:20	24.6 °C		°C	1
	Turbidity (Field)	GRAB		FDEP SOP	08/30/2021 09:20	0.24 NTU		NTU	1

**Classical Chemistry Parameters**

	Oil & Grease (HEM)	GRAB		EPA 1664A	09/02/2021 14:00	<1.30 mg/L	1.30	3.90 mg/L	1
	TRPH	GRAB		EPA 1664A	09/03/2021 13:50	<1.39 mg/L	1.39	4.18 mg/L	1

**Wet Chemistry**

	Total Alkalinity	GRAB		EPA 310.2	09/01/2021 16:54	<2.49 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB		EPA 350.1	09/03/2021 11:10	<0.00620 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB		EPA 300.0	09/01/2021 05:22	<0.126 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB		EPA 410.4	09/10/2021 19:00	<2.54 mg/L	2.54	10.0 mg/L	1
	MBAS as LAS, mol wt. 340	GRAB		SM5540C	08/31/2021 15:00	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB		EPA 300.0	08/31/2021 18:06	0.0690 mg/L I	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB		EPA 300.0	09/01/2021 05:22	0.188 mg/L I	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB		SM 2540C	09/01/2021 15:07	<10.0 mg/L	10.0	30.0 mg/L	1
81393	Total Kjeldahl Nitrogen	GRAB		EPA 351.2	09/07/2021 15:54	<0.184 mg/L	0.184	0.552 mg/L	1

**Total Recoverable Metals by EPA 200 Series Methods**

01027	Cadmium	GRAB		EPA 200.8	09/01/2021 12:56	<0.0299 ug/L	0.0299	0.200 ug/L	1
01042	Copper	GRAB		EPA 200.8	09/01/2021 12:56	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	09/15/2021 11:51	<0.0116 ug/L	0.0116	0.100 ug/L	1

**Metals by EPA 6000/7000 Series Methods**

01002	Arsenic	GRAB		EPA 6010/3010	09/01/2021 12:18	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB		EPA 6010/3010	09/01/2021 12:18	<0.0728 ug/L	0.0728	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	09/01/2021 12:18	<0.339 ug/L	0.339	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	09/01/2021 12:18	<1.09 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	09/01/2021 12:18	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	09/01/2021 12:18	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	09/01/2021 12:18	<0.446 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station Surface Water

**Lab ID:** 21H1091-02  
**Sheen:** No  
**Color:** Light 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:** 08/30/21 09:35  
**WACS Test Site ID#:** PBCC09      **Report Period:** 2021Q3  
**Well Name:** CTSW-1      **Well Purge (Y/N):**  
**GW Classification:** SW-IIIF      **Well Type:** Background      Compliance  
**GW Elevation (NGVD):**      Intermediate      Other

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		FDEP SOP	08/30/2021 09:35	286 uS/cm @ 25°C	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB		FDEP SOP	08/30/2021 09:35	6.35 pH Units	pH Units		1
	Temperature (field)	GRAB		FDEP SOP	08/30/2021 09:35	29.8 °C	°C		1
	Turbidity (Field)	GRAB		FDEP SOP	08/30/2021 09:35	2.66 NTU	NTU		1

**Classical Chemistry Parameters**

	Oil & Grease (HEM)	GRAB		EPA 1664A	09/02/2021 14:00	<1.30 mg/L	1.30	3.90 mg/L	1
	TRPH	GRAB		EPA 1664A	09/03/2021 13:50	<1.39 mg/L	1.39	4.18 mg/L	1

**Wet Chemistry**

	Total Alkalinity	GRAB		EPA 310.2	09/01/2021 16:54	93.9 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB		EPA 350.1	09/03/2021 11:10	<0.00620 mg/L J3	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB		EPA 300.0	08/31/2021 18:22	23.8 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB		EPA 410.4	09/10/2021 19:00	40.0 mg/L	2.54	10.0 mg/L	1
	MBAS as LAS, mol wt. 340	GRAB		SM5540C	08/31/2021 15:00	0.0300 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB		EPA 300.0	08/31/2021 18:22	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB		EPA 300.0	08/31/2021 18:22	10.3 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB		SM 2540C	09/01/2021 15:07	185 mg/L	10.0	30.0 mg/L	1
81393	Total Kjeldahl Nitrogen	GRAB		EPA 351.2	09/07/2021 15:54	0.898 mg/L	0.184	0.552 mg/L	1

**Total Recoverable Metals by EPA 200 Series Methods**

01027	Cadmium	GRAB		EPA 200.8	09/01/2021 13:01	<0.0299 ug/L	0.0299	0.200 ug/L	1
01042	Copper	GRAB		EPA 200.8	09/01/2021 13:01	5.68 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	09/15/2021 11:58	<0.0116 ug/L	0.0116	0.100 ug/L	1

**Metals by EPA 6000/7000 Series Methods**

01002	Arsenic	GRAB		EPA 6010/3010	09/01/2021 12:21	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB		EPA 6010/3010	09/01/2021 12:21	5.99 ug/L	0.0728	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	09/01/2021 12:21	0.680 ug/L I	0.339	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	09/01/2021 12:21	19.9 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	09/01/2021 12:21	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	09/01/2021 12:21	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	09/01/2021 12:21	12.7 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station Surface Water

Lab ID: 21H1091-03

Diameter (in):

Sheen:

Depth to Water (ft):

Color:

Top of Casing (ft):

Odor:

Total Depth (ft):

Matrix: DI

**Parameter Monitoring Report**

WACS Facility ID #:

Sampling Date/Time: 08/30/21 09:20

WACS Test Site ID#:

Report Period: 2021Q3

Well Name: Metal Trip Blank 83021

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		Dil Factor
							MDL	PQL	

**Total Recoverable Metals by EPA 200 Series Methods**

01027	Cadmium	GRAB		EPA 200.8	09/01/2021 12:58	<0.0299 ug/L	0.0299	0.200 ug/L	1
01042	Copper	GRAB		EPA 200.8	09/01/2021 12:58	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	09/15/2021 11:56	<0.0116 ug/L	0.0116	0.100 ug/L	1

**Metals by EPA 6000/7000 Series Methods**

01002	Arsenic	GRAB		EPA 6010/3010	09/01/2021 12:23	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB		EPA 6010/3010	09/01/2021 12:23	<0.0728 ug/L	0.0728	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	09/01/2021 12:23	<0.339 ug/L	0.339	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	09/01/2021 12:23	<1.09 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	09/01/2021 12:23	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	09/01/2021 12:23	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	09/01/2021 12:23	<0.446 mg/L	0.446	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)

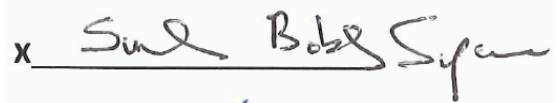
Legionella analyzed under CDC accreditation program

Dilution factors  $\geq 1000$  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 #**  
21H 1091



**CHAIN OF CUSTODY RECORD**

Tel: (954) 978-6400  
Tel: (912) 238-5050  
Tel: (863) 285-8145  
Tel: (863) 763-3336  
Tel: (863) 686-4271

**DUE DATE REQUESTED**  
**RUSH RESERVATION #**

Registered in Florida  
Meets Accredited by JAG, WPA, FL 33412

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

Fax: (954) 978-2233  
Fax: (912) 234-4815  
Fax: (863) 285-7030  
Fax: (863) 763-1544

**Report to:** **Company Invoice to:** **Company Phone:** **561 640-3400**

**Project Name:** **Central County Transfer Station Surface Water**

**Address:** **Invoice to Address:** **Site Location:** **Fax:**

**Contact:** **Antonio Richards**

**Order #**

**Yellow-Lab File Copy** **Pink - Sampler Copy**

**Sample ID:** **CTSSE Blank 083021**

**Date Sampled:** **8/30/21**

**Analysis Required**

**Time Sampled:** **9:20**

**Matrix:** **DI**

**Number of Containers Received & NELAC Letter Suffixes A-?** **4**

**Order #:** **02**

**Time Sampled:** **9:35**

**Number of Containers Received & NELAC Letter Suffixes A-?** **4**

**Order #:** **03**

**Date Sampled:** **8/30/21**

**Number of Containers Received & NELAC Letter Suffixes A-?** **1**

**Time Sampled:** **9:20**

**Matrix:** **DI**

**Number of Containers Received & NELAC Letter Suffixes A-?** **1**

**Special Comments:** **Cooler # 023**

**Signature:** **Manny Alvarez**

**Signature:** **Manny Alvarez**

**Deliverables:** **QA/QC Report Needed?**

**Signature:** **Manny Alvarez**

**Signature:** **Manny Alvarez**

**Sample Custody & Field Comments:**

**Signature:** **Manny Alvarez**

**Signature:** **Manny Alvarez**

**Received:** **Y**

**Signature:** **Manny Alvarez**

**Signature:** **Manny Alvarez**

**Received:** **Y**

**Signature:** **Manny Alvarez**

**Signature:** **Manny Alvarez**

**Received:** **Y**

**Signature:** **Manny Alvarez**

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**Received:** **Y**

**Signature:** **Manny Alvarez**

**Signature:** **Manny Alvarez**

2141091

**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\* For Mercury, Run EPA Method 245.1 if the standard of 0.012 ug/L can be achieved, otherwise run EPA Method 1639 or equivalent (low level mercury)**

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 GAUGE**

**READ METER AT MASTER PUMP STATION**

Page 2 of 2

COC # 03E22





# 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: **8/30/21**  
Time: **9:35**

Depth of Sample: 4" - 6"  
Description: Adjacent to Storm water structure in pond  
Staff gauge north: Missing  
Staff gauge south: 7.68  
Master Pump station Meter: 070961

Notes and Comments

Weather: **Sunny + HOT**  
Conductivity on scale X **US**  
PH < **2.0** in preservative

Field Parameters	Units	Standard Appearance
Temperature:	<b>29.8</b> C	Color: <b>Light yellow</b>
Specific Cond:	<b>—</b> uMHOS/cm	
Specific Cond: ATC	<b>286</b> uMHOS/cm	Odor: <b>NO</b>
PH:	<b>6.35</b> Std. Units	
Turb:	<b>2.66</b> NTU	<b>NO sheen</b>
D.O.	<b>—</b> Mg/L	

Bucket# **J**  
Beaker# **F**

Sample Container Inventory				
Quantity	Size	Type	Preservation	Analysis

Sampled By: **Manny Alvarez**

**ANTONIO RICHARDS**

Method of Shipment **SPECTRUM**