



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
MARCH 11, 2022

Ground Water Monitoring Report

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

Date Received: 02/14/2022 17:20
Date Reported: 03/11/2022 17:30
Report Period: 2022Q1

Project Name: Central County Transfer Station Surface Water
Lab Work Order (COC): 22B0576

Laboratory Sample #

22B0576-01
22B0576-02
22B0576-03

Client Sample #

CTSSEBlank 021422
CTSW-1
Metal Trip Blank 21422



Central County Transfer Station Surface Water

Lab ID: 22B0576-01

Diameter (in):

Sheen: No **Y**

Depth to Water (ft):

Color: Clear **Y**

Top of Casing (ft):

Odor: No **Y**

Total Depth (ft):

Matrix: DI **Y**

Parameter Monitoring Report

WACS Facility ID #:	PBCC01	Sampling Date/Time:	02/14/22 09:50 Y
WACS Test Site ID#:	N/A	Report Period:	2022Q1
Well Name:	CTSSEBlank 021422 Y	Well Purge (Y/N):	
GW Classification:	N/A	Well Type:	Background Compliance
GW Elevation (NGVD):		Intermediate	Other (X) Y

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
-------------	-----------	----------------------------	---------------------	-----------------	--------------------	------------------------	-------------------------------	-----	------------

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

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	02/14/2022 09:50	3.44 uS/cm @ 25°C Y	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	02/14/2022 09:50	6.92 pH Units Y	pH Units		1
	Temperature (field)	GRAB	N	FDEP SOP	02/14/2022 09:50	17.7 °C Y	°C		1
	Turbidity (Field)	GRAB	N	FDEP SOP	02/14/2022 09:50	0.38 NTU Y	NTU		1

Classical Chemistry Parameters

	Oil & Grease (HEM)	GRAB	N	EPA 1664	02/18/2022 08:30	1.50 mg/L I	1.30	3.90 mg/L	1
	TRPH	GRAB	N	EPA 1664	02/18/2022 20:00	<1.39 mg/L	1.39	4.18 mg/L	1

Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	02/18/2022 20:05	<2.49 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	02/16/2022 17:39	<0.00620 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	02/15/2022 20:09	<0.126 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	03/01/2022 21:00	<2.54 mg/L	2.54	10.0 mg/L	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	02/15/2022 17:04	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	02/15/2022 20:09	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	02/15/2022 20:09	<0.0953 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	02/18/2022 17:30	<10.0 mg/L	10.0	30.0 mg/L	1
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	02/18/2022 13:46	<0.184 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	02/15/2022 12:31	<0.0672 ug/L	0.0672	0.500 ug/L	1
01027	Cadmium	GRAB	N	EPA 200.8	02/15/2022 12:31	<0.0299 ug/L	0.0299	0.200 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	02/15/2022 12:31	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	02/16/2022 12:57	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB	N	EPA 6010/3010	02/15/2022 13:36	<0.0728 ug/L	0.0728	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	02/15/2022 13:36	<0.339 ug/L	0.339	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	02/15/2022 13:36	<1.09 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	02/15/2022 13:36	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	02/15/2022 13:36	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	02/15/2022 13:36	<0.446 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station Surface Water

Lab ID: 22B0576-02

Diameter (in):

Sheen: No **y**

Depth to Water (ft):

Color: Light Yellow **y**

Top of Casing (ft):

Odor: No **y**

Total Depth (ft):

Matrix: Surface Water **y**

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 02/14/22 10:05 **y**
 WACS Test Site ID#: PBCC09 Report Period: 2022Q1
 Well Name: CTSW-1 Well Purge (Y/N):
 GW Classification: SW-IIIF Well Type: Background Compliance
 GW Elevation (NGVD): Intermediate Other (X) **y**

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
-------------	-----------	----------------------------	---------------------	-----------------	--------------------	------------------------	-------------------------------	-----	------------

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

00402	Specific Conductance (field)	GRAB	N	FDEP SOP	02/14/2022 10:05	291 uS/cm @ 25°C y	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	02/14/2022 10:05	7.83 pH Units y	pH Units		1
	Temperature (field)	GRAB	N	FDEP SOP	02/14/2022 10:05	19.8 °C y	°C		1
	Turbidity (Field)	GRAB	N	FDEP SOP	02/14/2022 10:05	3.45 NTU y	NTU		1

Classical Chemistry Parameters

	Oil & Grease (HEM)	GRAB	N	EPA 1664	02/18/2022 08:30	2.20 mg/L J-8 I	1.30	3.90 mg/L	1
	TRPH	GRAB	N	EPA 1664	02/18/2022 20:00	<1.39 mg/L	1.39	4.18 mg/L	1

Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	02/18/2022 20:05	154 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	02/16/2022 17:39	<0.00620 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	02/15/2022 19:20	27.3 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	03/01/2022 21:00	33.2 mg/L	2.54	10.0 mg/L	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	02/15/2022 17:04	0.0440 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	02/15/2022 19:20	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	02/15/2022 19:20	10.6 mg/L	0.0953	0.500 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	02/18/2022 17:30	240 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	02/18/2022 13:46	0.631 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	02/15/2022 12:35	1.17 ug/L	0.0672	0.500 ug/L	1
01027	Cadmium	GRAB	N	EPA 200.8	02/15/2022 12:35	<0.0299 ug/L	0.0299	0.200 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	02/15/2022 12:35	3.92 ug/L I	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	02/16/2022 12:59	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB	N	EPA 6010/3010	02/15/2022 13:39	11.6 ug/L	0.0728	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	02/15/2022 13:39	0.900 ug/L I	0.339	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	02/15/2022 13:39	25.9 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	02/15/2022 13:39	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	02/15/2022 13:39	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	02/15/2022 13:39	14.7 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station Surface Water

Lab ID: 22B0576-03

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: 02/14/22 10:05

WACS Test Site ID#:

Report Period: 2022Q1

Well Name: Metal Trip Blank 21422

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

01002	Arsenic	GRAB		EPA 200.8	02/15/2022 12:40	<0.0672 ug/L	0.0672	0.500 ug/L	1
01027	Cadmium	GRAB		EPA 200.8	02/15/2022 12:40	<0.0299 ug/L	0.0299	0.200 ug/L	1
01042	Copper	GRAB		EPA 200.8	02/15/2022 12:40	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	02/16/2022 13:01	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB		EPA 6010/3010	02/15/2022 13:42	<0.0728 ug/L	0.0728	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	02/15/2022 13:42	<0.339 ug/L	0.339	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	02/15/2022 13:42	<1.09 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	02/15/2022 13:42	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	02/15/2022 13:42	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	02/15/2022 13:42	<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.
J-8	The analyte was detected at or above the method detection limit in a blank other than the method blank (such as equipment blank or field blank) and the blank value is greater than 10% of the associated sample value.
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)

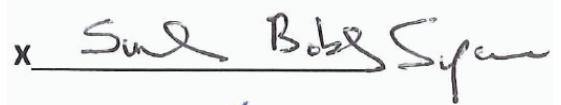
Legionella analyzed under CDC accreditation program

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 #
08257

CHAIN OF CUSTODY RECORD

- 1460 W. McNab Road, Ft Laud. FL 33309
- 108 Airport Park Dr., Garden City, GA 31408
- 1598 Gooch Rd., Fort Meade, FL 33841
- 670 Parrot Ave. N, Okeechobee, FL 34972
- E. Easton Drive, Lakeland, FL 33803

COC# A 08257
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

Florida Spectrum
Environmental Services, Inc.
7501 N. Jog Road, WPB, FL 33411
Contact: Managing Hydrogeologist
Phone: 561 640-4000
Fax: 561 640-3400

Yellow-Lab File Copy Pink - Sampler Copy

Report to: Original-Return w/report
Address: 1460 W. McNab Road, Ft Laud. FL 33309
Invoice to: 108 Airport Park Dr., Garden City, GA 31408
Address: 1598 Gooch Rd., Fort Meade, FL 33841
Site: 670 Parrot Ave. N, Okeechobee, FL 34972
Location: E. Easton Drive, Lakeland, FL 33803
Phone: _____
Affiliation: _____
Sampler Signature: *Antonio Richards*
Signature: *Manny Alvarez*

ORDER # Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Number of Containers Received & NELAC Letter Suffixes #	TEMPERATURE							
							T	P	C	C				
01	CTSS Blank 021422	2/14/22	9:50	DI	4	✓								
02	CTSW-1	2/14/22	10:05	SW	4	✓								
03	Metal Trip Blank 21422	2/14/22	10:05	DI	1	✓								
SEE PAGE 4 Letter of: 12/16/2021														

Special Comments: Cooler # 002

Deliverables: "I waive TNI protocol" (emergency) (sign here) >

Signature: Manny Alvarez
Received by: Manny Alvarez 2/14/22
Relinquished by: [Signature] 2/14/22 12:58
Received by: [Signature] 2/14/22 17:20
Relinquished by: [Signature] 2/14/22 17:30

SEE FIELD SHEETS FOR FIELD PARAMETERS

www.flenviro.com

CENTRAL COUNTY TRANSFER STATION SURFACE WATER

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

1 Surface Site CTSW-1

1 Equipment Blank (CTSSE Blank)

Parameters (Matrix: Surface Water)

A. Metals - (Run Arsenic & Mercury by EPA 200.8 Method)

Arsenic <i>200.8</i>	Chromium	Lead	Sodium
Barium	Copper <i>200.8</i>	Mercury <i>200.8</i>	Selenium
Cadmium <i>200.8</i>	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 # 08257

Dated 2/14/22

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



SITE NAME: Central County Transfer Station Surface Water		WACS Facility ID: PBCC01	DATE: 02/14/2022
Sample name: CTSSE Blank 021422		WACS Test Site ID: N/A	SAMPLE TIME: 9:50
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 + cold	
Sample Method: GRAB	Stainless Steel Bucket #: H	Stainless Steel Beaker #: E	DI Water Lot # 1/31/22

Equipment Blank - Field Data

FIELD VALUES →			pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
			6.92	17.7	3.44	NOT REQUIRED	0.38
Color: Clear	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 21422			Cooler # 002	

SAMPLING DATA

FIELD DECONTAMINATION: No			FIELD-FILTERED: No			DUPLICATE: Y <input type="radio"/> <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	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)							
SAMPLED BY (PRINT) ANTONIO RICHARDS Manny Alvarez				SAMPLER(S) SIGNATURE(S)  Antonio Richards  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: 02/14/2022
Sample name:: CTSW-1	Matrix: Surface Water	WACS Test Site ID: PBCC09	SAMPLE TIME: 10:05
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 8.81 (ft NGVD)	Weather Conditions: Sunny + cold
Discharging No Discharge Structure exists	Sample Method GRAB	Stainless Steel Bucket # H	Stainless Steel Beaker # E Cooler # 002

Surface Water - Field Data

FIELD VALUES →	Other	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
		7.83	19.8	291	NOT REQUIRED	3.45
Color: Light yellow	Odor: NO	Sheen: NO	Surface Water Conditions: Metal Trip Blank 21422 (Aquatic Vegetation coverage, is DS full or dry)			Meter Reading: 158651

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	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)							
SAMPLED BY (PRINT) ANTONIO RICHARDS					SAMPLER(S) SIGNATURE(S) 		
Manny Alvarez							