



NELAP Certificate No. E86006



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RECEIVED
NOV 21, 2021

Ground Water Monitoring Report

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

Date Received: 10/28/2021 16:00
Date Reported: 11/21/2021 12:18
Report Period: 2021Q4

Project Name: Central County Transfer Station MW's
Lab Work Order (COC): 21J1067

Laboratory Sample #

- 21J1067-01
- 21J1067-02
- 21J1067-03
- 21J1067-04
- 21J1067-05

Client Sample #

- CTMW-2S
- CTMW-2I
- CTMW-1S
- CTMW-1I
- Metal Trip Blank 102821



Central County Transfer Station MW's

Lab ID: 21J1067-01
Sheen: No
Color: Light Yellow
Odor: No
Matrix: Groundwater

Diameter (in): 2
Depth to Water (ft): 14.40
Top of Casing (ft): 22.15
Total Depth (ft): 37.31

Parameter Monitoring Report

WACS Facility ID #: PBCC01 **Sampling Date/Time:** 10/28/21 09:50
WACS Test Site ID#: PBCC03 **Report Period:** 2021Q4
Well Name: CTMW-2S **Well Purge (Y/N):** Y
GW Classification: G-II **Well Type:** Background **Compliance (X)**
GW Elevation (NGVD): 7.75 Intermediate Other

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	N	FDEP SOP	10/28/2021 09:50	410 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/28/2021 09:50	7.62 pH Units		pH Units	1
	Temperature (field)	GRAB	N	FDEP SOP	10/28/2021 09:50	27.0 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/28/2021 09:50	2.62 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664A	11/02/2021 14:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	10/29/2021 14:22	128 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/01/2021 16:04	0.0455 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	10/29/2021 05:44	28.8 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/06/2021 16:25	21.1 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	10/28/2021 19:45	30.0/7.46 Pt-Co	5.00	15.0 Pt-Co	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	10/28/2021 17:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	10/29/2021 05:44	0.0310 mg/L I	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	10/28/2021 17:50	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	10/29/2021 23:04	19.3 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/03/2021 11:45	0.0370 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/05/2021 10:01	242 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/02/2021 12:12	0.537 mg/L I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01042	Copper	GRAB	N	EPA 200.8	11/03/2021 11:22	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2021 13:01	<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	11/01/2021 16:23	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB	N	EPA 6010/3010	11/01/2021 16:23	10.2 ug/L	0.0728	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2021 16:23	<0.181 ug/L	0.181	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2021 16:23	1.12 ug/L I	0.339	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2021 16:23	994 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2021 16:23	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2021 16:23	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2021 16:23	19.0 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 21J1067-02

Diameter (in): 2
 Depth to Water (ft): 14.34
 Top of Casing (ft): 22.10
 Total Depth (ft): 72.65

Sheen: No
 Color: Light Yellow
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 10/28/21 10:40
 WACS Test Site ID#: PBCC04 Report Period: 2021Q4
 Well Name: CTMW-2I Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.76 Intermediate Other

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	N	FDEP SOP	10/28/2021 10:40	421 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/28/2021 10:40	7.59 pH Units		pH Units	1
	Temperature (field)	GRAB	N	FDEP SOP	10/28/2021 10:40	26.3 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/28/2021 10:40	0.44 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664A	11/02/2021 14:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	10/29/2021 14:22	175 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/01/2021 16:04	0.125 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	10/29/2021 06:02	23.7 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/06/2021 16:25	16.5 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	10/28/2021 19:45	20.0/7.52 Pt-Co	5.00	15.0 Pt-Co	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	10/28/2021 17:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	10/29/2021 06:02	0.0290 mg/L I	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	10/28/2021 17:55	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	10/29/2021 23:21	4.17 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/03/2021 11:45	0.0330 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/05/2021 10:01	228 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/02/2021 12:12	0.472 mg/L J3 I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01042	Copper	GRAB	N	EPA 200.8	11/03/2021 11:23	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2021 13:03	<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	11/01/2021 16:27	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB	N	EPA 6010/3010	11/01/2021 16:27	9.88 ug/L	0.0728	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2021 16:27	<0.181 ug/L	0.181	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2021 16:27	0.444 ug/L I	0.339	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2021 16:27	739 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2021 16:27	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2021 16:27	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2021 16:27	12.6 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 21J1067-03

Diameter (in): 2
 Depth to Water (ft): 14.53
 Top of Casing (ft): 22.27
 Total Depth (ft): 36.60

Sheen: No
 Color: Light Yellow
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 10/28/21 11:25
 WACS Test Site ID#: PBCC01 Report Period: 2021Q4
 Well Name: CTMW-1S Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.74 Intermediate Other

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	N	FDEP SOP	10/28/2021 11:25	285 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/28/2021 11:25	7.84 pH Units		pH Units	1
	Temperature (field)	GRAB	N	FDEP SOP	10/28/2021 11:25	27.7 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/28/2021 11:25	0.66 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664A	11/02/2021 14:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	10/29/2021 14:22	88.0 mg/L	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/01/2021 16:04	0.00929 mg/L I	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	10/29/2021 06:19	15.7 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/06/2021 16:25	11.8 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	10/28/2021 19:45	30.0/7.59 Pt-Co	5.00	15.0 Pt-Co	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	10/28/2021 17:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	10/29/2021 06:19	0.0280 mg/L I	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	10/28/2021 18:00	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	10/29/2021 23:37	8.28 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/03/2021 11:45	0.00300 mg/L I	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/05/2021 10:01	146 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/02/2021 12:12	0.339 mg/L I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01042	Copper	GRAB	N	EPA 200.8	11/03/2021 11:25	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2021 13:39	<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	11/01/2021 16:31	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB	N	EPA 6010/3010	11/01/2021 16:31	7.06 ug/L	0.0728	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2021 16:31	<0.181 ug/L	0.181	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2021 16:31	<0.339 ug/L	0.339	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2021 16:31	921 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2021 16:31	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2021 16:31	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2021 16:31	6.39 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 21J1067-04

Diameter (in): 2
 Depth to Water (ft): 14.58
 Top of Casing (ft): 22.31
 Total Depth (ft): 69.30

Sheen: No
 Color: Light Yellow
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 10/28/21 11:55
 WACS Test Site ID#: PBCC02 Report Period: 2021Q4
 Well Name: CTMW-11 Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.73 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	10/28/2021 11:55	507 uS/cm @ 25°C	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB		FDEP SOP	10/28/2021 11:55	7.38 pH Units	pH Units		1
	Temperature (field)	GRAB		FDEP SOP	10/28/2021 11:55	27.9 °C	°C		1
	Turbidity (Field)	GRAB		FDEP SOP	10/28/2021 11:55	1.14 NTU	NTU		1

Classical Chemistry Parameters

	TRPH	GRAB		EPA 1664A	11/02/2021 14:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB		EPA 310.2	10/29/2021 14:22	213 mg/L J3	2.49	7.46 mg/L	1
00151	Ammonia as N	GRAB		EPA 350.1	11/01/2021 16:04	0.179 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB		EPA 300.0	10/29/2021 06:53	27.0 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB		EPA 410.4	11/06/2021 16:25	40.0 mg/L	2.54	10.0 mg/L	1
	Color	GRAB		SM 2120B	10/28/2021 19:45	60.0/7.22 Pt-Co	5.00	15.0 Pt-Co	1
	MBAS as LAS, mol wt. 340	GRAB		SM5540C	10/28/2021 17:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB		EPA 300.0	10/29/2021 06:53	0.0360 mg/L I	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB		SM 2150B	10/28/2021 18:05	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB		EPA 300.0	10/29/2021 23:54	16.1 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB		SM 4500-S D	11/03/2021 11:45	0.0310 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB		SM 2540C	11/05/2021 10:01	304 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB		EPA 351.2	11/02/2021 12:12	0.790 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01042	Copper	GRAB		EPA 200.8	11/03/2021 11:27	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	11/02/2021 13:42	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01002	Arsenic	GRAB		EPA 6010/3010	11/01/2021 16:36	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB		EPA 6010/3010	11/01/2021 16:36	13.9 ug/L	0.0728	1.00 ug/L	1
01027	Cadmium	GRAB		EPA 6010/3010	11/01/2021 16:36	<0.181 ug/L	0.181	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	11/01/2021 16:36	2.05 ug/L I	0.339	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	11/01/2021 18:00	1130 ug/L	5.45	50.0 ug/L	5
01051	Lead	GRAB		EPA 6010/3010	11/01/2021 16:36	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	11/01/2021 16:36	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	11/01/2021 16:36	15.3 mg/L	0.446	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 21J1067-05

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: 10/28/21 09:50

WACS Test Site ID#:

Report Period: 2021Q4

Well Name: Metal Trip Blank 102821

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

01042	Copper	GRAB		EPA 200.8	11/03/2021 11:10	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	11/02/2021 13:44	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01002	Arsenic	GRAB		EPA 6010/3010	11/01/2021 16:40	<2.21 ug/L	2.21	10.0 ug/L	1
01007	Barium	GRAB		EPA 6010/3010	11/01/2021 16:40	<0.0728 ug/L	0.0728	1.00 ug/L	1
01027	Cadmium	GRAB		EPA 6010/3010	11/01/2021 16:40	<0.181 ug/L	0.181	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	11/01/2021 16:40	<0.339 ug/L	0.339	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	11/01/2021 16:40	<1.09 ug/L	1.09	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	11/01/2021 16:40	<1.19 ug/L	1.19	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	11/01/2021 16:40	<3.46 ug/L	3.46	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	11/01/2021 16:40	<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)

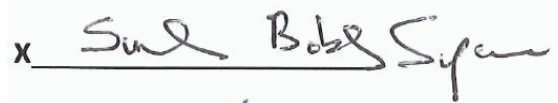
Legionella analyzed under CDC accreditation program

Dilution factors ≥ 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 #

215 1067

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
 610 Parrot Ave. N, Okeechobee, FL 34972
 11 E. Easton Drive, Lakeland, FL 33803

COC# A 03643

Tel: (954) 978-6400 Fax: (954) 978-2233
 Tel: (912) 238-5050 Fax: (912) 234-4815
 Tel: (863) 285-8145 Fax: (863) 285-7080
 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.
 Doc. Ctrl: 0401120-003

Logged in by: *SWA*
 Meets at: **7501 N. Jog Road, WPB, FL 33412**

Contact: Managing Hydrogeologist

Phone: 561-640-4000

Fax: 561-640-3400

Yellow-Lab File Copy

Pink - Sampler Copy

Original-Return w/report

Report to: _____
 Address: _____
 Invoice to: _____
 Address: _____
 Site: _____
 Location: _____
 Email: _____
 Project Name: _____
 and/or Number: _____
 Project: _____
 Phone: _____
 Affiliation: _____
 Sampler Name: *Antonio Richards*
 (printed) *Manny Alvarez*

ORDER # Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres. Combo Codes	Number of Containers Received & NELAC Letter Suffixes A-?	Field Tests				
							TEMP °C	PH	COND	CHLOR	
01	CTMW-2S	10/28/21	9:50	GW	✓	✓	See page 3 Letter of: 9/16/21				
02	CTMW-2I	10/28/21	10:40	GW	✓	✓					
03	CTMW-1S	10/28/21	11:25	GW	✓	✓					
04	CTMW-1I	10/28/21	11:55	GW	✓	✓					
05	Metal Trip Blanks 10/28/21	10/28/21	9:50	DI	✓	✓					
Total											

Special Comments: **Cooler # 024**
 "I waive TNI protocol" (emergency) (sign here) >
 Deliverables: _____
 QA/QC Report Needed? Yes No (additional charge)
 Signature: *Manny Alvarez* 10/28/21 13:30
 Relinquished by: *Joseph* 10/28/21 13:30
 Received by: *Joseph* 10/28/21 16:00
 Relinquished by: *Joseph* 10/28/21 16:00
 Received by: *Joseph* 10/28/21 16:00
 Relinquished by: _____
 Received by: _____
 www.flenviro.com COC Page 1 of 2

Sample Custody & Field Comments

Received on Ice: *4.5*
 as received _____
 by seals? _____
 GUN-1 _____
 FIELD TIME _____
 Pick Up _____ hrs
 Charges _____

Preservatives:
 A-ascorbic acid
 C-HCL
 Cu-CuSO4
 DI-DI water
 H-HNO3
 M-MCAB
 MeOH-Methanol
 Z-zinc acetate

Additional Preservatives:
 Hex-Hex Cr Buffer
 EDA-Ethylene Diamine

2151067

CENTRAL COUNTY TRANSFER STATION MONITORING WELLS
SWA PERMIT # C.O.A. F.5.E. I & II

8 Monitoring Wells: CTMW-1S, CTMW-1I, CTMW-2S, CTMW-2I,
CTMW-3S, CTMW-3I, CTMW-4S, CTMW-4I

1 Field Duplicate (CTSF D)

1 Field Blank (CTSF Blank)

Parameters (Matrix: Ground Water)

A. Metals

Arsenic	Chromium	Lead	Sodium
Barium	Copper	Mercury	Selenium
Cadmium	Iron		

B. Indicator Parameters

Total Ammonia	Foaming Agents (MBAS)	Nitrate
Total Alkalinity	Sulfide	Odor
COD	TKN	Sulfate
Color	TDS	
Chloride	TRPH (Total Recoverable Petroleum Hydrocarbons)	

C. Field Parameters

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

D. Well Information (field)

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

Page 2 of 2

COC # 03643

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC03	DATE: 10/28/21
WELL NO: CTMW- 2S	Well Type: Compliance	Well Location: West of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FL

PURGING DATA

Top of Casing Elevation(ft): 22.15	Static Depth To Water (ft): 14.40	Water Table Elevation NGVD (ft): 7.75	Column Height (ft): 22.91	Total Well Depth (ft): 37.31'						
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3x4									
WELL CAPACITY (gal/ft): 0.16	= (37.31-14.40=22.91) X 0.16 = 3.66 GALLONS 4									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 9:35	PURGE ENDED AT: 9:47	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	1.0	14.46	7.59	26.9	411	0.35	3.30	
1	4	8		14.46	7.59	26.9	411	0.44	3.31	
1	4	12		14.46	7.62	27.0	410	0.43	2.62	
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
					7.62	27.0	410	—	2.62	
Color: Light yellow	Odor: NO	Sheen: NO	Comments: Metal trip blank 102821				Cooler # 024			
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: 9:50	SAMPLING ENDED AT: 9:55	Weather: Sunny + warm			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y <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	7.6	Metals
2	HDPE		H2SO4	None	7.6	Ammonia
3	HDPE		ZN ACETATE	None	79.0	Sulfide
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT) Manny Alvarez ANTONIO RICHARDS				SAMPLER(S) SIGNATURE(S) 		

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC04	DATE: 10/28/21
WELL NO: CTMW-2I	Well Type: Compliance	Well Location: West of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.10	Static Depth To Water (ft): 14.34	Water Table Elevation NGVD (ft): 7.76	Column Height (ft): 58.31	Total Well Depth (ft): 72.65'						
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 X 10									
WELL CAPACITY (gal/ft): 0.16	= (72.65 - 14.34 = 58.31) X 0.16 = 9.32 GALLONS 10									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 10:05	PURGE ENDED AT: 10:29	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	1.25	14.50	7.49	26.3	420	0.31	0.58	
1	10	20		14.50	7.59	26.3	421	0.19	0.38	
1	10	30		14.50	7.59	26.3	421	0.10	0.44	
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
					7.59	26.3	421	—	0.44	
Color: Light Yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 102821				Cooler # 024			
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: 10:40	SAMPLING ENDED AT: 10:45	Weather: Sunny + Warm				
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	1- LITER	HNO3	None		22.0	Metals
2	HDPE		H2SO4	None		22.0	Ammonia
3	HDPE		ZN ACETATE	one time the preservative	79.0	Sulfide	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)							
SAMPLED BY (PRINT)			SAMPLER(S) SIGNATURE(S)				
Manny Alvarez			Antonio Richards				

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC01	DATE: 10/28/21
WELL NO: CTMW-1S	Well Type: Compliance	Well Location: North of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.27	Static Depth To Water (ft): 14.53	Water Table Elevation NGVD (ft): 7.74	Column Height (ft): 22.07	Total Well Depth (ft): 36.60'						
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 x 4									
WELL CAPACITY (gal/ft): 0.16	= (36.60 - 14.53 = 22.07) X 0.16 = 3.53 GALLONS 4									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 11:10	PURGE ENDED AT: 11:22	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	1.0	14.67	7.91	27.7	280	0.44	0.95	
1	4	8		14.67	7.93	27.7 44 MA	286	0.48	0.83	
1	4	12		14.67	7.84	27.7	285	0.49	0.66	
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
					7.84	27.7	285	—	0.66	
Color: Light yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 102821				Cooler #: 024			
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: 11:25	SAMPLING ENDED AT: 11:30	Weather: Sunny & Hot		
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)	
1	HDPE	1- LITER	HNO3	None	
2	HDPE		H2SO4	None	
3	HDPE		ZN ACETATE	None	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)					
SAMPLED BY (PRINT): Manny Alvarez				SAMPLER(S) SIGNATURE(S): Antonio Richards	

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC02	DATE: 10/28/21
WELL NO: CTMW-1I	Well Type: Compliance	Well Location: North of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FL

PURGING DATA

Top of Casing Elevation(ft): 22.31	Static Depth To Water (ft): 14.58	Water Table Elevation NGVD (ft): 7.73	Column Height (ft): 54.72	Total Well Depth (ft): 69.30'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3 X 9			
WELL CAPACITY (gal/ft): 0.16	= (69.30 - 14.58 = 54.72) X 0.16 = 8.75 GALLONS 9			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 11:35	PURGE ENDED AT: 11:53	TOTAL VOL. PURGED (gal): 27
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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	9	9	1.5	14.97	7.30	27.8	506	0.14	2.37
1	9	18		14.97	7.35	27.9	507	0.11	2.35
1	9	27		14.97	7.38	27.9	507	0.27	1.14

FINAL FIELD VALUES →				pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
				7.38	27.9	507	0.27	1.14

Color: Light yellow	Odor: NO	Sheen: NO	Comments: Metal trip Blank 102821	Cooler #: 024
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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: 11:55	SAMPLING ENDED AT: 12:00	Weather: Sunny + Hot				
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		None	<2.0	Metals
2	HDPE		H2SO4		None	<2.0	Ammonia
3	HDPE		ZN ACETATE	None	>9.0	Sulfide	
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)							
SAMPLED BY (PRINT) Manny Alvarez				SAMPLER(S) SIGNATURE(S) Antonio Richards			