



NELAP Certificate No. E86006



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Ground Water Monitoring Report

RECEIVED
NOV 23, 2022

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

Date Received: 10/31/2022 17:25
Date Reported: 11/22/2022 15:25
Report Period: 2022Q4

Project Name: Central County Transfer Station MW's
Lab Work Order (COC): 22K0001

Laboratory Sample #

- 22K0001-01
- 22K0001-02
- 22K0001-03
- 22K0001-04
- 22K0001-05
- 22K0001-06

Client Sample #

- CTMW-2S
- CTMW-2I
- CTSF Blank 103122
- CTMW-1S
- CTMW-1I
- Metal Trip Blank 103122



Central County Transfer Station MW's

Lab ID: 22K0001-01
Sheen: No
Color: Slight Yellow
Odor: No
Matrix: Groundwater

Diameter (in): 2
Depth to Water (ft): 14.35
Top of Casing (ft): 22.15
Total Depth (ft): 37.31

Parameter Monitoring Report

WACS Facility ID #: PBCC01 **Sampling Date/Time:** 10/31/22 09:22
WACS Test Site ID#: PBCC03 **Report Period:** 2022Q4
Well Name: CTMW-2S **Well Purge (Y/N):** Y
GW Classification: G-II **Well Type:** Background **Compliance (X)**
GW Elevation (NGVD): 7.8 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	10/31/2022 09:22	418 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/31/2022 09:22	7.54 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	10/31/2022 09:22	26.7 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/31/2022 09:22	3.05 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	11/01/2022 15:40	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	11/05/2022 15:43	121 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/02/2022 14:09	0.109 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	11/01/2022 15:17	37.0 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/04/2022 15:30	16.6 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	11/01/2022 16:30	30/7.29 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	11/01/2022 16:30	0.0220 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	11/01/2022 15:17	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	11/01/2022 15:17	15.7 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/05/2022 12:00	0.0250 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/09/2022 14:26	248 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/08/2022 12:50	0.263 mg/L I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	11/02/2022 11:33	1.58 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	11/02/2022 11:33	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2022 16:24	<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	11/01/2022 13:27	10.3 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2022 13:27	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2022 13:27	1.20 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2022 13:27	965 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2022 13:27	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2022 13:27	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2022 13:27	21.7 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22K0001-02

Diameter (in): 2
 Depth to Water (ft): 14.32
 Top of Casing (ft): 22.10
 Total Depth (ft): 72.65

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

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 10/31/22 10:00
 WACS Test Site ID#: PBCC04 Report Period: 2022Q4
 Well Name: CTMW-2I Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.78 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	10/31/2022 10:00	431 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/31/2022 10:00	7.54 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	10/31/2022 10:00	26.2 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/31/2022 10:00	0.32 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	11/01/2022 16:20	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	11/05/2022 15:43	178 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/02/2022 14:09	0.186 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	11/01/2022 15:34	24.1 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/04/2022 15:30	11.9 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	11/01/2022 16:30	30/7.38 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	11/01/2022 16:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	11/01/2022 15:34	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	11/01/2022 15:34	6.29 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/05/2022 12:00	0.0410 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/09/2022 14:26	228 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/08/2022 12:50	0.261 mg/L I	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	11/02/2022 11:38	0.248 ug/L I	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	11/02/2022 11:38	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2022 16:26	<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	11/01/2022 13:29	10.1 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2022 13:29	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2022 13:29	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2022 13:29	744 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2022 13:29	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2022 13:29	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2022 13:29	13.0 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22K0001-03

Diameter (in):

Sheen: No

Depth to Water (ft):

Color: Clear

Top of Casing (ft):

Odor: No

Total Depth (ft):

Matrix: DI Water

Parameter Monitoring Report

WACS Facility ID #:	PBCC01	Sampling Date/Time:	10/31/22 10:20
WACS Test Site ID#:	N/A	Report Period:	2022Q4
Well Name:	CTSF Blank 103122	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	10/31/2022 10:20	0.953 uS/cm @ 25°C	uS/cm @ 25°C		1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/31/2022 10:20	6.19 S.U.	S.U.		1
	Temperature (field)	GRAB	N	FDEP SOP	10/31/2022 10:20	27.2 °C	°C		1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/31/2022 10:20	0.21 NTU	NTU		1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	11/01/2022 16:20	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	11/05/2022 15:43	<3.74 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/02/2022 14:09	<0.00620 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	11/01/2022 15:50	<0.126 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/04/2022 15:30	<2.54 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	11/01/2022 16:30	5.0/4.92 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	11/01/2022 16:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	11/01/2022 15:50	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	11/01/2022 10:10	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	11/01/2022 15:50	<0.0953 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/05/2022 12:00	<0.00210 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/09/2022 14:26	<10.0 mg/L	10.0	30.0 mg/L	1
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/08/2022 12:50	<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	11/02/2022 11:42	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	11/02/2022 11:42	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2022 16:28	<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	11/01/2022 13:31	<0.0962 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2022 13:31	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2022 13:31	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2022 13:31	<1.69 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2022 13:31	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2022 13:31	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2022 13:31	<0.521 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22K0001-04

Diameter (in): 2
 Depth to Water (ft): 14.55
 Top of Casing (ft): 22.27
 Total Depth (ft): 36.60

Sheen: No
 Color: Clear
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 10/31/22 10:45
 WACS Test Site ID#: PBCC01 Report Period: 2022Q4
 Well Name: CTMW-1S Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.72 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	10/31/2022 10:45	338 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/31/2022 10:45	7.55 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	10/31/2022 10:45	27.6 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/31/2022 10:45	0.29 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	11/01/2022 16:20	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	11/05/2022 15:43	119 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/02/2022 14:09	0.0603 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	11/01/2022 16:07	17.4 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/04/2022 15:30	7.10 mg/L I	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	11/01/2022 16:30	30/7.19 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	11/01/2022 16:30	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	11/01/2022 16:07	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	11/01/2022 10:10	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	11/01/2022 16:07	11.1 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/05/2022 12:00	0.00400 mg/L I	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/09/2022 14:26	192 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/08/2022 12:50	<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	11/02/2022 11:47	2.64 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	11/02/2022 11:47	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2022 16:31	<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	11/01/2022 13:45	8.30 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2022 13:45	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2022 13:45	0.700 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2022 13:45	955 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2022 13:45	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2022 13:45	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2022 13:45	8.62 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22K0001-05

Diameter (in): 2
 Depth to Water (ft): 14.62
 Top of Casing (ft): 22.31
 Total Depth (ft): 69.30

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

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 10/31/22 11:20
 WACS Test Site ID#: PBCC02 Report Period: 2022Q4
 Well Name: CTMW-11 Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.69 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	10/31/2022 11:20	527 uS/cm @ 25°C		uS/cm @ 25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	10/31/2022 11:20	7.28 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	10/31/2022 11:20	27.6 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	10/31/2022 11:20	0.50 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	11/01/2022 16:20	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	11/05/2022 15:43	213 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	11/02/2022 14:09	0.227 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	11/01/2022 16:56	25.0 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	11/04/2022 15:30	28.5 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	11/01/2022 16:30	60/7.12 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	11/01/2022 16:30	0.0260 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	11/01/2022 16:56	<0.00720 mg/L	0.00720	0.0750 mg/L	1
	Odor at 60°C	GRAB	N	SM 2150B	11/01/2022 10:10	<1.00 T.O.N.	1.00	3.00 T.O.N.	1
00945	Sulfate	GRAB	N	EPA 300.0	11/01/2022 16:56	19.8 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	11/05/2022 12:00	0.0380 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	11/09/2022 14:26	300 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	11/08/2022 12:50	0.567 mg/L	0.184	0.552 mg/L	1

Total Recoverable Metals by EPA 200 Series Methods

01002	Arsenic	GRAB	N	EPA 200.8	11/02/2022 11:52	0.389 ug/L I	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	11/02/2022 11:52	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	11/02/2022 16:33	<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	11/01/2022 13:47	13.8 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	11/01/2022 13:47	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	11/01/2022 13:47	1.90 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	11/01/2022 14:23	1080 ug/L	8.45	50.0 ug/L	5
01051	Lead	GRAB	N	EPA 6010/3010	11/01/2022 13:47	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	11/01/2022 13:47	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	11/01/2022 13:47	15.0 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 22K0001-06

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: 10/31/22 10:45

WACS Test Site ID#:

Report Period: 2022Q4

Well Name: Metal Trip Blank 103122

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

01002	Arsenic	GRAB		EPA 200.8	11/02/2022 11:56	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB		EPA 200.8	11/02/2022 11:56	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	11/02/2022 16:35	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

01007	Barium	GRAB		EPA 6010/3010	11/01/2022 13:49	<0.0962 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB		EPA 6010/3010	11/01/2022 13:49	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	11/01/2022 13:49	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	11/01/2022 13:49	<1.69 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	11/01/2022 13:49	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	11/01/2022 13:49	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	11/01/2022 13:49	<0.521 mg/L	0.521	2.00 mg/L	1

Notes and Definitions

Y	The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
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.
Q	Sample held beyond accepted holding time.
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)

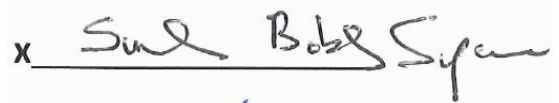
Legionella analyzed under CDC accreditation program

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 #
008348

CHAIN OF CUSTODY RECORD

COC# A 08348

Florida Spectrum Environmental Services, Inc.
PBC SWA
Logged by **WJN**
Meets Acceptance Criteria
Date: 10/18/2020

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

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

Report to: (company name) **Phone: 561 640-4000**
Invoice to: (company name) **Fax: 561 640-3400**
Project Name: Central county Transfer Station monitoring wells
Project Number and/or Name: Central county Transfer Station monitoring wells

Sampler Name: Antonio Richards
Sampler Signature: *Antonio Richards*
Site Location: *Central county Transfer Station monitoring wells*
Address:
City:
State:
Zip:
Phone:
Fax:
Email:

ORDER # Lab Control Number	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Number of Containers Received & NELAC Letter Suffixes #	Field Tests			
							T	P	C	C
Analysis Required							TEMP °C	PH	COND	CHLOR
01	CTMw-25	10/31/22	9:22	GW	AW	6	✓			
02	CTMw-2I	10/31/22	10:00	GW	AW	6	✓			
03	CTSF Blank	10/31/22	10:20	DI	AW	6	✓			
04	CTMw-1S	10/31/22	10:45	GW	AW	6	✓			
05	CTMw-1I	10/31/22	11:20	GW	AW	6	✓			
06										
07										
08	Metal Trip Blank 103122	10/31/22	10:45	OI	AW	1	✓			
09										
10	odor went out of hold on samples it 2 - client will Respike									

Special Comments: Cooler # 008, 025
"I waive TNI protocol" (emergency) (sign here) >
Deliverables: Q/A/QC Report Needed? Yes No (additional charge)

Signature	Affiliation	Date/Time
<i>Mary Alvarez</i>	Alvarez	10/31/22 13:20
<i>Mary Alvarez</i>	FSEA	10/31/22 13:20
<i>Mary Alvarez</i>	FSES	10/31/22 17:25
<i>Mary Alvarez</i>	FSS	10/31/22 17:25
<i>Mary Alvarez</i>		
<i>Mary Alvarez</i>		

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 # 08348
Dated: 10/31/22

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: 10/31/2022
WELL NO: CTMW- 2S	Well Type: Compliance	Well Location: West of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.15	Static Depth To Water (ft): 14.35	Water Table Elevation NGVD (ft): 7.8	Column Height (ft): 22.96	Total Well Depth (ft): 37.31'						
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	= (37.31 - 14.35 = 22.96) X 0.16 = 3.67 GALLONS 4									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 9:05	PURGE ENDED AT: 9:19	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	0.85	14.45	7.52	26.7	423	0.28	4.70	
1	4	8		14.45	7.54	26.7	420	0.25	3.45	
1	4	12		14.45	7.54	26.7	418	0.18	3.05	
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
					7.54	26.7	418	NOT REQUIRED	3.05	
Color: SLIGHT YELLOW	Odor: NO	Sheen: NO	Comments: Reference Metal Trip Blank 103122				Cooler # 025			
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: 9:22	SAMPLING ENDED AT: 9:27	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		HNO3	NONE	< 2.0	Metals
2	HDPE		H2SO4	NONE	< 2.0	Ammonia
3	HDPE		ZN ACETATE	NONE	29.0	Sulfide
	AG		H2SO4	NONE	< 2.0	TRPH, OIL AND 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) 			

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: 10/31/2022
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): 14.32	Water Table Elevation NGVD (ft): 7.78	Column Height (ft): 58.33	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 - 14.32 = 58.33) X 0.16 = 9.33 GALLONS 10									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 9:35	PURGE ENDED AT: 9:56	TOTAL VOL. PURGED (gal): 30						
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	1.15	14.45	7.54	26.2	430	0.17	0.37	
1	10	20		14.45	7.54	26.2	431	0.17	0.15	
1	10	30		14.45	7.54	26.2	431	0.15	0.32	
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
					7.54	26.2	431	NOT REQUIRED	0.32	
Color: clear	Odor: Light	Sheen: NO	Comments: Reference Metal Trip Blank 103122				Cooler # 025			
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: 10:00	SAMPLING ENDED AT: 10:05	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		HNO3	None	22.0	Metals
2	HDPE		H2SO4	None	22.0	Ammonia
3	HDPE		ZN ACETATE	None	79.0	Sulfide
4	AG		H2SO4	None	22.0	TRPH, OIL AND GREASE

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
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Solid Waste Authority of Palm Beach County Field Blank Data Sheet

SITE NAME: Central County Transfer Station	WACS Facility ID: PBCC01	DATE: 10/31/2022
Sample name: CTSF Blank 103122	WACS Test Site ID: N/A	SAMPLE TIME: 10:20
Matrix: DI Water	Site Location: 1810 Lantana Road - Lantana, FL	

Description: Field blanks monitor the on-site sampling environment, sample container cleaning, the suitability of sample preservatives and analyte-free water, and sample transport and storage conditions for water samples. Field Blanks are collected in the field during the middle to end of a sampling event or if any unusual activities are observed that may affect sampling activities. Field blanks are prepared by pouring analyte-free water into sample containers for each parameter set to be collected.		
Classification of Ground Water: N/A	Weather Conditions: Sunny + Hot	
Sample Method: GRAB	Stainless Steel Submersible pump #: N/A	DI Water Lot # 10/17/2022 5/18/2022

Field Blank - Field Data

FIELD VALUES →	Other	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L) NOT REQUIRED	TURBIDITY (NTUs)
		6.19	27.2	0.953		0.21
Color: Clear	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 103122			Cooler # 025-MA 008

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	
3	AG	1- LITER	H2SO4	None	<2.0	TRPH & O/G	
4	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) ANTONIO RICHARDS Mouly Alvarez				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: PBCC01	DATE: 10/31/2022
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): 14.55	Water Table Elevation NGVD (ft): 7.72	Column Height (ft): 22.05	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 - 14.55 = 22.05) X 0.16 = 3.52 GALLONS 4			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 10:25	PURGE ENDED AT: 10:39	TOTAL VOL. PURGED (gal): 12
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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	4	4	0.85	14.67	7.51	27.5	327	0.61	0.45
1	4	8		14.68	7.54	27.6	330	0.29	0.30
1	4	12		14.68	7.55	27.6	338	0.23	0.29

FINAL FIELD VALUES →				pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
				7.55	27.6	338	NOT REQUIRED	0.29

Color: Clear	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 103122	Cooler #: 008
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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: 10:45	SAMPLING ENDED AT: 10:50	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		HNO3	NONE	22.0	Metals
2	HDPE		H2SO4	NONE	22.0	Ammonia
3	HDPE		ZN ACETATE	NONE	79.0	Sulfide
4	AG		H2SO4	NONE	22.0	TRPH, OIL AND GREASE

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
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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: 10/31/2022
WELL NO: CTMW-1I	Well Type: Compliance	Well Location: North of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 22.31	Static Depth To Water (ft): 14.62	Water Table Elevation NGVD (ft): 7.69	Column Height (ft): 54.68	Total Well Depth (ft): 69.30'
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3X9			
WELL CAPACITY (gal/ft): 0.16	= (69.30 - 14.62 = 54.68) X 0.16 = 8.74 GALLONS 9			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 10:55	PURGE ENDED AT: 11:16	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	1.28	14.95	7.28	27.6	524	0.22	1.16
1	9	18		14.95	7.28	27.6	527	0.25	0.83
1	9	27		14.95	7.28	27.6	527	0.22	0.50

FINAL FIELD VALUES →				pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
				7.28	27.6	527	NOT REQUIRED	0.50


Color: slight yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 103122	Cooler #: 008
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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: 11:20	SAMPLING ENDED AT: 11:25	Weather: Sunny + Hot			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y	⊙			
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
3	HDPE		ZN ACETATE	NONE	79.0	Sulfide
	AG		H2SO4	NONE	<2.0	TRPH, OIL AND 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): 
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