



NELAP Certificate No. E86006



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RECEIVED
MARCH 13, 2023

Ground Water Monitoring Report

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

Date Received: 02/13/2023 16:05
Date Reported: 03/13/2023 09:19
Report Period: 2023Q1

Project Name: Central County Transfer Station MW's
Lab Work Order (COC): 23B0539

Laboratory Sample #

- 23B0539-01
- 23B0539-02
- 23B0539-03
- 23B0539-04
- 23B0539-05
- 23B0539-06

Client Sample #

- CTMW-4I
- CTMW-4S
- CTSFD 021323
- CTMW-3S
- CTMW-3I
- Metal Trip Blank 021323



Central County Transfer Station MW's

Lab ID: 23B0539-01

Diameter (in): 2
 Depth to Water (ft): 13.56
 Top of Casing (ft): 21.07
 Total Depth (ft): 69.42

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

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 02/13/23 09:28
 WACS Test Site ID#: PBCC08 Report Period: 2023Q1
 Well Name: CTMW-4I Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.51 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	02/13/2023 09:28	481 umhos/cm@25°C		umhos/cm@25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	02/13/2023 09:28	7.28 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	02/13/2023 09:28	27.1 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	02/13/2023 09:28	0.43 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	02/16/2023 16:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	02/16/2023 17:51	204 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	02/22/2023 13:34	0.0898 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	02/14/2023 21:05	34.0 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	02/21/2023 15:10	36.3 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	02/14/2023 15:20	50/7.21 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	02/14/2023 13:20	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	02/14/2023 21:05	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	02/14/2023 21:05	13.2 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	02/17/2023 13:00	0.0490 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	02/18/2023 17:00	300 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	02/21/2023 12:55	0.232 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	02/16/2023 10:34	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	02/16/2023 10:34	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	02/17/2023 11:34	<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	02/14/2023 15:38	8.00 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	02/14/2023 15:38	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	02/14/2023 15:38	2.60 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	02/14/2023 15:38	463 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	02/14/2023 15:38	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	02/14/2023 15:38	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	02/14/2023 15:38	19.4 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 23B0539-02

Diameter (in): 2
 Depth to Water (ft): 13.41
 Top of Casing (ft): 20.95
 Total Depth (ft): 32.45

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

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 02/13/23 09:57
 WACS Test Site ID#: PBCC07 Report Period: 2023Q1
 Well Name: CTMW-4S Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.54 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	02/13/2023 09:57	378 umhos/cm@25°C		umhos/cm@25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	02/13/2023 09:57	7.08 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	02/13/2023 09:57	27.0 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	02/13/2023 09:57	1.39 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	02/16/2023 16:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	02/16/2023 17:51	166 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	02/22/2023 13:34	0.0810 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	02/14/2023 21:21	20.3 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	02/21/2023 15:10	46.0 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	02/14/2023 15:20	60/7.21 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	02/14/2023 13:20	0.0230 mg/L I	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	02/14/2023 21:21	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	02/14/2023 21:21	11.8 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	02/17/2023 13:00	0.0620 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	02/18/2023 17:00	260 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	02/21/2023 12:55	0.481 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	02/16/2023 10:37	1.23 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	02/16/2023 10:37	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	02/17/2023 11:37	<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	02/14/2023 15:40	10.9 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	02/14/2023 15:40	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	02/14/2023 15:40	3.20 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	02/14/2023 15:40	656 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	02/14/2023 15:40	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	02/14/2023 15:40	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	02/14/2023 15:40	12.2 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 23B0539-03

Diameter (in):

Sheen: No

Depth to Water (ft):

Color: Light Yellow

Top of Casing (ft):

Odor: No

Total Depth (ft):

Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #:	PBCC01	Sampling Date/Time:	02/13/23 09:57
WACS Test Site ID#:	PBCC07	Report Period:	2023Q1
Well Name:	CTSFD 021323	Well Purge (Y/N):	
GW Classification:	G-II	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	02/13/2023 09:57	378 umhos/cm@25°C	umhos/cm@25°C		1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	02/13/2023 09:57	7.08 S.U.	S.U.		1
	Temperature (field)	GRAB	N	FDEP SOP	02/13/2023 09:57	27.0 °C	°C		1
	Turbidity (Field)	GRAB	N	FDEP SOP	02/13/2023 09:57	1.39 NTU	NTU		1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	02/16/2023 16:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	02/16/2023 17:51	168 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	02/22/2023 13:34	0.0881 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	02/14/2023 21:54	20.3 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	02/21/2023 15:10	55.7 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	02/14/2023 15:20	60/7.21 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	02/14/2023 13:20	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	02/14/2023 21:54	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	02/14/2023 21:54	11.9 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	02/17/2023 13:00	0.0610 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	02/18/2023 17:00	256 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	02/21/2023 12:55	0.301 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	02/16/2023 10:39	1.23 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	02/16/2023 10:39	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	02/17/2023 11:39	<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	02/14/2023 15:42	11.0 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	02/14/2023 15:42	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	02/14/2023 15:42	3.20 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	02/14/2023 15:42	648 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	02/14/2023 15:42	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	02/14/2023 15:42	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	02/14/2023 15:42	12.1 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 23B0539-04

Diameter (in): 2
 Depth to Water (ft): 15.52
 Top of Casing (ft): 23.35
 Total Depth (ft): 36.30

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

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 02/13/23 10:42
 WACS Test Site ID#: PBCC05 Report Period: 2023Q1
 Well Name: CTMW-3S Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.83 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	02/13/2023 10:42	276 umhos/cm@25°C		umhos/cm@25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	02/13/2023 10:42	7.50 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	02/13/2023 10:42	26.6 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	02/13/2023 10:42	0.50 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	02/16/2023 16:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	02/16/2023 17:51	90.6 mg/L J3	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	02/22/2023 13:34	0.0629 mg/L	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	02/14/2023 22:11	21.6 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	02/21/2023 15:10	17.0 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	02/14/2023 15:20	5.0/7.53 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	02/14/2023 13:20	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	02/14/2023 22:11	0.119 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	02/14/2023 22:11	10.1 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	02/17/2023 13:00	0.00500 mg/L I	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	02/18/2023 17:00	170 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	02/21/2023 12:55	<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	02/16/2023 10:42	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	02/16/2023 10:42	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	02/17/2023 11:41	<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	02/14/2023 15:44	4.50 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	02/14/2023 15:44	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	02/14/2023 15:44	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	02/14/2023 15:44	52.8 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	02/14/2023 15:44	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	02/14/2023 15:44	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	02/14/2023 15:44	9.94 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 23B0539-05

Diameter (in): 2
 Depth to Water (ft): 15.50
 Top of Casing (ft): 23.34
 Total Depth (ft): 72.46

Sheen: No
 Color: Colorless
 Odor: No
 Matrix: Groundwater

Parameter Monitoring Report

WACS Facility ID #: PBCC01 Sampling Date/Time: 02/13/23 11:25
 WACS Test Site ID#: PBCC06 Report Period: 2023Q1
 Well Name: CTMW-31 Well Purge (Y/N): Y
 GW Classification: G-II Well Type: Background Compliance (X)
 GW Elevation (NGVD): 7.84 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	02/13/2023 11:25	498 umhos/cm@25°C		umhos/cm@25°C	1
00406	pH (Field) at 25°C	GRAB	N	FDEP SOP	02/13/2023 11:25	7.40 S.U.		S.U.	1
	Temperature (field)	GRAB	N	FDEP SOP	02/13/2023 11:25	26.0 °C		°C	1
	Turbidity (Field)	GRAB	N	FDEP SOP	02/13/2023 11:25	0.89 NTU		NTU	1

Classical Chemistry Parameters

	TRPH	GRAB	N	EPA 1664	02/16/2023 16:30	<1.39 mg/L	1.39	4.18 mg/L	1
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Wet Chemistry

	Total Alkalinity	GRAB	N	EPA 310.2	02/16/2023 17:51	214 mg/L	3.74	10.0 mg/L	1
00151	Ammonia as N	GRAB	N	EPA 350.1	02/22/2023 13:34	0.248 mg/L J3	0.00620	0.0200 mg/L	1
00940	Chloride	GRAB	N	EPA 300.0	02/14/2023 22:27	34.6 mg/L	0.126	0.500 mg/L	1
	Chemical Oxygen Demand	GRAB	N	EPA 410.4	02/21/2023 15:10	31.5 mg/L	2.54	10.0 mg/L	1
	Color	GRAB	N	SM 2120B	02/14/2023 15:20	30/7.55 Apparent CU	5.00	15.0 Apparent CU	1
	MBAS as LAS, mol wt. 340	GRAB	N	SM5540C	02/14/2023 13:20	<0.0220 mg/L	0.0220	0.100 mg/L	1
71851	Nitrate as N	GRAB	N	EPA 300.0	02/14/2023 22:27	<0.00720 mg/L	0.00720	0.0750 mg/L	1
00945	Sulfate	GRAB	N	EPA 300.0	02/14/2023 22:27	14.9 mg/L	0.0953	0.500 mg/L	1
	Sulfide	GRAB	N	SM 4500-S D	02/17/2023 13:00	0.0270 mg/L	0.00210	0.0100 mg/L	1
00134	Total Dissolved Solids	GRAB	N	SM 2540C	02/18/2023 17:00	304 mg/L	20.0	60.0 mg/L	2
81393	Total Kjeldahl Nitrogen	GRAB	N	EPA 351.2	02/21/2023 12:55	0.446 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	02/16/2023 11:01	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB	N	EPA 200.8	02/16/2023 11:01	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB	N	EPA 200.8	02/17/2023 11:44	<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	02/14/2023 15:45	7.00 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB	N	EPA 6010/3010	02/14/2023 15:45	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB	N	EPA 6010/3010	02/14/2023 15:45	0.700 ug/L I	0.513	5.00 ug/L	1
01045	Iron	GRAB	N	EPA 6010/3010	02/14/2023 15:45	736 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB	N	EPA 6010/3010	02/14/2023 15:45	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB	N	EPA 6010/3010	02/14/2023 15:45	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB	N	EPA 6010/3010	02/14/2023 15:45	21.3 mg/L	0.521	2.00 mg/L	1



Central County Transfer Station MW's

Lab ID: 23B0539-06

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: 02/13/23 09:28

WACS Test Site ID#:

Report Period: 2023Q1

Well Name: Metal Trip Blank 021323

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	02/16/2023 11:04	<0.115 ug/L	0.115	0.500 ug/L	1
01042	Copper	GRAB		EPA 200.8	02/16/2023 11:04	<1.01 ug/L	1.01	4.00 ug/L	1
71900	Mercury	GRAB		EPA 200.8	02/17/2023 11:46	<0.0116 ug/L	0.0116	0.100 ug/L	1

Metals by EPA 6000/7000 Series Methods

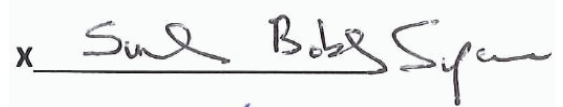
01007	Barium	GRAB		EPA 6010/3010	02/14/2023 15:47	<0.0962 ug/L	0.0962	1.00 ug/L	1
01027	Cadmium	GRAB		EPA 6010/3010	02/14/2023 15:47	<0.217 ug/L	0.217	1.00 ug/L	1
01034	Chromium	GRAB		EPA 6010/3010	02/14/2023 15:47	<0.513 ug/L	0.513	5.00 ug/L	1
01045	Iron	GRAB		EPA 6010/3010	02/14/2023 15:47	<1.69 ug/L	1.69	10.0 ug/L	1
01051	Lead	GRAB		EPA 6010/3010	02/14/2023 15:47	<1.93 ug/L	1.93	10.0 ug/L	1
01147	Selenium	GRAB		EPA 6010/3010	02/14/2023 15:47	<4.39 ug/L	4.39	15.0 ug/L	1
00934	Sodium	GRAB		EPA 6010/3010	02/14/2023 15:47	<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 "-".



CHAIN OF CUSTODY RECORD

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

COC# A 08386
 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 #
 Rush Surcharges apply

Report to: **Phone: 561 640-4000**
 (company fax): **561 640-3400**

Project Name: **CENTRAL COUNTY TRANSFER STATION MONITORING WELLS**
 and/or Number

Project: **Antonio Richards**
Manny Alvarez

Project: **Antonio Richards**
Manny Alvarez

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Manny Alvarez

ORDER #	Sample ID	Date Sampled	Time Sampled	Matrix		Bottle & Pres.	Combo Codes	Number of Containers Received & NELAC Letter Suffixes	Signature	Affiliation	Date/Time
				DW	SW						
01	CTMW-4I	2/13/23	9:28	GW	ASB			6	<i>Manny Alvarez</i>		
02	CTMW-4S	2/13/23	9:57	GW				6			
03	CTSEF021323	2/13/23	9:57	GW				6			
04	CTMW-3S	2/13/23	10:42	GW				6			
05	CTMW-3T	2/13/23	11:25	GW				6			
06											
07											
08	Metal Tri-B Blank	2/13/23	9:28	DI				1			
09											
10											

Special Comments: **Cooler # 001, 026**
 "waive TMI protocol" (emergency) (sign here) >
 Deliverables: **QA/QC Report Needed?**

Signature: *Manny Alvarez*
 Received by: *Manny Alvarez*
 Relinquished by: *Manny Alvarez*
 Relinquished by: *Manny Alvarez*

Signature: *Manny Alvarez*
 Received by: *Manny Alvarez*
 Relinquished by: *Manny Alvarez*
 Relinquished by: *Manny Alvarez*

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 (CTSPD)

1 Field Blank (CTSF Blank)

Parameters (Matrix: Ground Water)

A. Metals (Note: Arsenic & Copper by EPA Method 200.8)

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 # 08386

Dated: 02/13/23

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC08	DATE: 02/13/2023
WELL NO: CTMW-4I	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation (ft): 21.07	Static Depth To Water (ft): 13.56	Water Table Elevation NGVD (ft): 7.51	Column Height (ft): 55.86	Total Well Depth (ft): 69.42'					
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 = (69.42' - 13.56 - 55.86) X 0.16 = 8.93 GALLONS 9									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 9:03	PURGE ENDED AT: 9:23	TOTAL VOL. PURGED (gal): 27					
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	1.35	13.90	7.23	27.1	477	0.27	2.22
1	9	18		13.90	7.28	27.1	480	0.23	1.12
1	9	27		13.90	7.28	27.1	481	0.15	0.43
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					7.28	27.1	481	NOT REQUIRED	0.43
Color: Light yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 021323			Cooler # 026			
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: 9:28	SAMPLING ENDED AT: 9:33	Weather: Sunny + cool			
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	7.20	Metals
2	HDPE		H2SO4	None	7.20	Ammonia
3	HDPE		ZN ACETATE	None	7.90	Sulfide
4	AG		H2SO4	None	7.20	TRPH, OIL AND GREASE
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 Ricardo			

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC07	DATE: 02/13/2023
WELL NO: CTMW- 4S	Well Type: Compliance	Well Location: Park on Hillside Drive	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 20.95	Static Depth To Water (ft): 13.41	Water Table Elevation NGVD (ft): 7.54	Column Height (ft): 19.04	Total Well Depth (ft): 32.45'
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	= (32.45' - 13.41 = 19.04) X 0.16 = 3.04 GALLONS 4			

PURGE METHOD: Redi-flo	PURGE INITIATED AT: 9:35	PURGE ENDED AT: 9:54	TOTAL VOL. PURGED (gal): MA 2016
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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	0.84	13.57	7.13	26.3	384	0.34	5.50
1	4	8		13.57	7.10	27.0	375	0.09	3.82
1	4	12		13.57	7.08	27.1	377	0.08	2.20
1	4	16		13.57	7.08	27.0	378	0.05	1.39
1	4	20 ^{MA}							

FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					7.08	27.0	378	NOT REQUIRED	1.39

Color: Light yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 021323	Cooler # 026
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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

9:57 SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 9:35	SAMPLING ENDED AT: 10:02	Weather: Sunny + COOL
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y <input checked="" type="checkbox"/>	

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): <i>Manny Alvarez</i>	SAMPLER(S) SIGNATURE(S): <i>Antonio Richards</i>
---	---

Solid Waste Authority of Palm Beach County Field Duplicate Ground Water



SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01	DATE: 02/13/2023
Sample name: CTSFD 021323		WACS Test Site ID: PBCC07	SAMPLE TIME: 9:57
Matrix: Ground Water	Well Type: Other	Site Location: 1810 Lantana Road - Lantana, FI	

Description: Field duplicates are designed to measure the variability in the sampling process. Field Duplicates are collected by repeating (simultaneously or in rapid succession) the entire sample acquisition technique that was used to obtain the first sample.	
Classification of Ground Water: GII	Weather Conditions: Sunny + cool
Sample Method: GRAB	Well No: CTMW-45

Field Duplicate - Field Data

FIELD VALUES →			Other	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
							NOT REQUIRED		
				7.08	27.0	378		1.39	
Color: Light yellow	Odor: NO	Sheen: NO	Comments: Metal Trip Blank 021323				Cooler # 026		

SAMPLING DATA

FIELD DECONTAMINATION: No			FIELD-FILTERED: No			DUPLICATE: Yes		
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		
4	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) 				
Manny Alvarez								

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		WACS Facility ID: PBCC01 WACS Test Site ID: PBCC05	DATE: 02/13/2023
WELL NO: CTMW- 3S	Well Type: Compliance	Well Location: South of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 23.35	Static Depth To Water (ft): 15.52	Water Table Elevation NGVD (ft): 7.83	Column Height (ft): 20.78	Total Well Depth (ft): 36.30'						
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		= (36.30 - 15.52 = 20.78) X 0.16 = 3.32 GALLONS 4								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 10:25	PURGE ENDED AT: 10:39	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	15.70	7.56	26.4	278	0.63	4.96	
1	4	8		15.70	7.53	26.6	277	0.45	1.20	
1	4	12		15.70	7.50	26.6	276	0.30	0.50	
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
					7.50	26.6	276	NOT REQUIRED	0.50	
Color: Light yellow	Odor: NO	Sheen: NO	Comments: Reference Metal Trip Blank 021323				Cooler # 001			
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: 10:42	SAMPLING ENDED AT: 10:47	Weather: Sunny + cool			
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
3	HDPE		ZN ACETATE	None	79.0	Sulfide
4	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) Manny Alvarez Antonio Bellows				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: PBCC06	DATE: 02/13/2023
WELL NO: CTMW-3I	Well Type: Compliance	Well Location: South of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, FI

PURGING DATA

Top of Casing Elevation(ft): 23.34	Static Depth To Water (ft): 15.50	Water Table Elevation NGVD (ft): 7.84	Column Height (ft): 56.96	Total Well Depth (ft): 72.46'						
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 3x10									
WELL CAPACITY (gal/ft): 0.16	= (72.46' - 15.50' = 56.96') X 0.16 = 9.11 GALLONS/10'									
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 11:00	PURGE ENDED AT: 11:21	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	B10	10	1.42	15.66	7.42	26.1	500	0.26	4.96	
1	B10	20		15.71	7.38	26.1	498	0.12	1.43	
1	10	30		15.71	7.40	26.0	498	0.05	0.89	
FINAL FIELD VALUES →					pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	
					7.40	26.0	498	NOT REQUIRED	0.89	
Color: Colorless	Odor: NO	Sheen: NO	Comments: Reference Metal Trip Blank 021323				Cooler # 001			
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 + cool			
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		HNO3	None	<2.0	Metals
2	HDPE		H2SO4	None	<2.0	Ammonia
3	HDPE		ZN ACETATE	None	>9.0	Sulfide
4	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)			SAMPLER(S) SIGNATURE(S)			
Manny Alvarez			Antonio Richards			