



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

www.LiveGreenSaveBlue.com

Report To: Tonia Selmeski
City of Marco Island
50 Bald Eagle Drive
Marco Island, FL 34145

Collected by: CCPCD
Collection Date: 06/15/2020
Submittal Date: 06/15/2020 @ 13:12

Report Date : 7/22/2020
Report Time : 10:13:40AM

Project: MARCO
Report#: 0620_MRCO_I

Data Qualifier Code Key:

- I: The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- U: The compound was analyzed for but not detected
- Q: Sample held beyond acceptable holding time
- J: Estimate value; the reported value failed to meet established criteria for either precision or accuracy
- V: Analyte detected in both the sample and the associated method blank
- B: Colony count is generated from plates in which the total number of colonies is outside the method indicated ideal range
- Y: The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
- G: Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.

Analyses performed using EPA or Standard Methods and certified to meet NELAC Standards. Data qualifiers assigned according to F.A.C. 62-160. Results contained in this report relate only to the samples collected.



Respectfully Submitted,

Nosbel Perez

Nosbel Perez
Laboratory Supervisor

ANALYTICAL RESULTS

Report # 0620_MRCO_I

<i>Location:</i> JH_PARK		<i>Field ID:</i> AF60804		<i>Lab ID:</i> AF60804		<i>Collect Date/Time:</i> 6/15/20 10:16				
<i>Analyte Name</i>	<i>Method</i>	<i>Result</i>	<i>Acceptable Limits</i>	<i>Qualifier</i>	<i>Units</i>	<i>MDL</i>	<i>PQL</i>	<i>DF</i>	<i>Analysis Date/Time</i>	
CC-Nitrate-N	CC-Nitrate-N	0.011		UJ	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130		MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.668			mg/L	0.200	0.500	1	06/26/2020	12:53
Nitrate-Nitrite (N)	EPA 353.2	0.011		UJ	mg/L	0.011	0.020	1	06/24/2020	13:56
pH	FDEP FT1100	7.930	6.5 - 8.5		SU			1	06/15/2020	10:16
Specific Conductance	FDEP FT1200	50333			umho/cm			1	06/15/2020	10:16
Dissolved Oxygen Saturation	FDEP FT1500	83.4	>42		%			1	06/15/2020	10:16
Nitrogen- Total	Nitrogen- Total	0.668	<0.3	J	mg/L	0.200	0.500	1	06/26/2020	12:53
Chlorophyll a	SM 10200 H	3.0	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/15/2020	15:58
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	2.4			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:03
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.046	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:14

ANALYTICAL RESULTS

Report # 0620_MRCO_I

<i>Location:</i> HC_CENTER		<i>Field ID:</i> AF60805		<i>Lab ID:</i> AF60805		<i>Collect Date/Time:</i> 6/15/20 10:39				
<i>Analyte Name</i>	<i>Method</i>	<i>Result</i>	<i>Acceptable Limits</i>	<i>Qualifier</i>	<i>Units</i>	<i>MDL</i>	<i>PQL</i>	<i>DF</i>	<i>Analysis Date/Time</i>	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130		MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.723			mg/L	0.200	0.500	1	06/26/2020	12:57
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:03
pH	FDEP FT1100	7.840	6.5 - 8.5		SU			1	06/15/2020	10:39
Specific Conductance	FDEP FT1200	48135			umho/cm			1	06/15/2020	10:39
Dissolved Oxygen Saturation	FDEP FT1500	82.6	>42		%			1	06/15/2020	10:39
Nitrogen- Total	Nitrogen- Total	0.723	<0.3		mg/L	0.200	0.500	1	06/26/2020	12:57
Chlorophyll a	SM 10200 H	4.8	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/15/2020	15:58
Pheophytin	SM 10200 H	1.10			mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	0.80			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:05
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.053	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:17

ANALYTICAL RESULTS

Report # 0620_MRCO_I

Location: COLLIER_BRIDGE		Field ID: AF60806		Lab ID: AF60806		Collect Date/Time: 6/15/20 11:02				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	20	<130		MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.738			mg/L	0.200	0.500	1	06/26/2020	13:01
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:06
pH	FDEP FT1100	7.880	6.5 - 8.5		SU			1	06/15/2020	11:02
Specific Conductance	FDEP FT1200	48237			umho/cm			1	06/15/2020	11:02
Dissolved Oxygen Saturation	FDEP FT1500	83	>42		%			1	06/15/2020	11:02
Nitrogen- Total	Nitrogen- Total	0.738	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:01
Chlorophyll a	SM 10200 H	1.0	<4.9	U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/15/2020	15:58
Pheophytin	SM 10200 H	1.20			mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	1.6			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:06
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.043	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:18

ANALYTICAL RESULTS

Report # 0620_MRCO_I

Location: KENDALL		Field ID: AF60807		Lab ID: AF60807		Collect Date/Time: 6/15/20 11:22				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.705			mg/L	0.200	0.500	1	06/26/2020	13:03
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:08
pH	FDEP FT1100	7.890	6.5 - 8.5		SU			1	06/15/2020	11:22
Specific Conductance	FDEP FT1200	49878			umho/cm			1	06/15/2020	11:22
Dissolved Oxygen Saturation	FDEP FT1500	77.6	>42		%			1	06/15/2020	11:22
Nitrogen- Total	Nitrogen- Total	0.705	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:03
Chlorophyll a	SM 10200 H	2.1	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/15/2020	15:58
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	2.6			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:07
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.048	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:19

ANALYTICAL RESULTS

Report # 0620_MRCO_I

<i>Location:</i> BARFIELD_BRIDGE		<i>Field ID:</i> AF60808		<i>Lab ID:</i> AF60808		<i>Collect Date/Time:</i> 6/15/20 11:46				
<i>Analyte Name</i>	<i>Method</i>	<i>Result</i>	<i>Acceptable Limits</i>	<i>Qualifier</i>	<i>Units</i>	<i>MDL</i>	<i>PQL</i>	<i>DF</i>	<i>Analysis Date/Time</i>	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130		MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.647			mg/L	0.200	0.500	1	06/26/2020	13:04
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:10
pH	FDEP FT1100	7.960	6.5 - 8.5		SU			1	06/15/2020	11:46
Specific Conductance	FDEP FT1200	52556			umho/cm			1	06/15/2020	11:46
Dissolved Oxygen Saturation	FDEP FT1500	92.8	>42		%			1	06/15/2020	11:46
Nitrogen- Total	Nitrogen- Total	0.647	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:04
Chlorophyll a	SM 10200 H	1.7	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/15/2020	15:58
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	3.9			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:08
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.036	<0.046	I	mg/L	0.014	0.040	2	06/30/2020	14:20

ANALYTICAL RESULTS

Report # 0620_MRCO_II

<i>Location:</i> LANDMARK		<i>Field ID:</i> AF60809		<i>Lab ID:</i> AF60809		<i>Collect Date/Time:</i> 6/15/20 10:02				
<i>Analyte Name</i>	<i>Method</i>	<i>Result</i>	<i>Acceptable Limits</i>	<i>Qualifier</i>	<i>Units</i>	<i>MDL</i>	<i>PQL</i>	<i>DF</i>	<i>Analysis Date/Time</i>	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.608			mg/L	0.200	0.500	1	06/26/2020	13:06
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:13
pH	FDEP FT1100	7.950	6.5 - 8.5		SU			1	06/15/2020	10:02
Specific Conductance	FDEP FT1200	47241			umho/cm			1	06/15/2020	10:02
Dissolved Oxygen Saturation	FDEP FT1500	104.1	>42		%			1	06/15/2020	10:02
Nitrogen- Total	Nitrogen- Total	0.608	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:06
Chlorophyll a	SM 10200 H	1.9	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	0.65			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:11
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.043	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:21

ANALYTICAL RESULTS

Report # 0620_MRCO_II

<i>Location:</i> W_WINTERBERRY_BRIDGE		<i>Field ID:</i> AF60810		<i>Lab ID:</i> AF60810		<i>Collect Date/Time:</i> 6/15/20 10:34				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	2.18			mg/L	0.200	0.500	1	06/26/2020	13:07
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:15
pH	FDEP FT1100	7.950	6.5 - 8.5		SU			1	06/15/2020	10:34
Specific Conductance	FDEP FT1200	49609			umho/cm			1	06/15/2020	10:34
Dissolved Oxygen Saturation	FDEP FT1500	100.8	>42		%			1	06/15/2020	10:34
Nitrogen- Total	Nitrogen- Total	2.18	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:07
Chlorophyll a	SM 10200 H	4.5	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	1.2			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:12
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.043	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:21

ANALYTICAL RESULTS

Report # 0620_MRCO_II

<i>Location:</i> MCILVAINE		<i>Field ID:</i> AF60811		<i>Lab ID:</i> AF60811		<i>Collect Date/Time:</i> 6/15/20 11:02				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.781			mg/L	0.200	0.500	1	06/26/2020	13:08
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:18
pH	FDEP FT1100	7.940	6.5 - 8.5		SU			1	06/15/2020	11:02
Specific Conductance	FDEP FT1200	53166			umho/cm			1	06/15/2020	11:02
Dissolved Oxygen Saturation	FDEP FT1500	93.7	>42		%			1	06/15/2020	11:02
Nitrogen- Total	Nitrogen- Total	0.781	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:08
Chlorophyll a	SM 10200 H	1.6	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	2.5			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:13
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.028	<0.046	I	mg/L	0.014	0.040	2	06/30/2020	14:22

ANALYTICAL RESULTS

Report # 0620_MRCO_II

Location: WINDMILL		Field ID: AF60812		Lab ID: AF60812		Collect Date/Time: 6/15/20 12:53				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.967			mg/L	0.200	0.500	1	06/26/2020	13:10
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:20
pH	FDEP FT1100	7.790	6.5 - 8.5		SU			1	06/15/2020	12:53
Specific Conductance	FDEP FT1200	48432			umho/cm			1	06/15/2020	12:53
Dissolved Oxygen Saturation	FDEP FT1500	119.1	>42		%			1	06/15/2020	12:53
Nitrogen- Total	Nitrogen- Total	0.967	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:10
Chlorophyll a	SM 10200 H	10.3	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	2.6			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:17
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.057	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:23

ANALYTICAL RESULTS

Report # 0620_MRCO_II

Location: HUMMINGBIRD		Field ID: AF60813		Lab ID: AF60813		Collect Date/Time: 6/15/20 13:21				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.624			mg/L	0.200	0.500	1	06/26/2020	13:11
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:23
pH	FDEP FT1100	7.780	6.5 - 8.5		SU			1	06/15/2020	13:21
Specific Conductance	FDEP FT1200	47990			umho/cm			1	06/15/2020	13:21
Dissolved Oxygen Saturation	FDEP FT1500	109.5	>42		%			1	06/15/2020	13:21
Nitrogen- Total	Nitrogen- Total	0.624	<0.3		mg/L	0.200	0.500	1	06/26/2020	13:11
Chlorophyll a	SM 10200 H	4.0	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	1.5			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:20
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.032	<0.046	I	mg/L	0.014	0.040	2	06/30/2020	14:26

ANALYTICAL RESULTS

Report # 0620_MRCO_II

Location: HOLLYHOCK		Field ID: AF60814		Lab ID: AF60814		Collect Date/Time: 6/15/20 12:19				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		UJ	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	20	<130		MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.918			mg/L	0.200	0.500	1	06/26/2020	13:15
Nitrate-Nitrite (N)	EPA 353.2	0.011		UJ	mg/L	0.011	0.020	1	06/24/2020	14:35
pH	FDEP FT1100	7.750	6.5 - 8.5		SU			1	06/15/2020	12:19
Specific Conductance	FDEP FT1200	50170			umho/cm			1	06/15/2020	12:19
Dissolved Oxygen Saturation	FDEP FT1500	98	>42		%			1	06/15/2020	12:19
Nitrogen- Total	Nitrogen- Total	0.918	<0.3	J	mg/L	0.200	0.500	1	06/26/2020	13:15
Chlorophyll a	SM 10200 H	7.2	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	2.9			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	06/25/2020	11:01
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:21
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.040	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:29

ANALYTICAL RESULTS

Report # 0620_MRCO_II

Location: E_WINTERBERRY_BRIDGE		Field ID: AF60815		Lab ID: AF60815		Collect Date/Time: 6/15/20 11:31				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.777			mg/L	0.200	0.500	1	07/06/2020	15:44
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:42
pH	FDEP FT1100	7.890	6.5 - 8.5		SU			1	06/15/2020	11:31
Specific Conductance	FDEP FT1200	51212			umho/cm			1	06/15/2020	11:31
Dissolved Oxygen Saturation	FDEP FT1500	99.3	>42		%			1	06/15/2020	11:31
Nitrogen- Total	Nitrogen- Total	0.777	<0.3		mg/L	0.200	0.500	1	07/06/2020	15:44
Chlorophyll a	SM 10200 H	2.8	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	2.7			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	07/01/2020	10:36
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:22
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.050	<0.046		mg/L	0.007	0.020	2	06/30/2020	14:32

ANALYTICAL RESULTS

Report # 0620_MRCO_II

Location: SWALLOW		Field ID: AF60816		Lab ID: AF60816		Collect Date/Time: 6/15/20 13:51			
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time
CC-Nitrate-N	CC-Nitrate-N	0.028			mg/L	0.011	0.020	1	06/15/2020 16:23
Enterococci	Enterolert/QT	668	<130		MPN/100 mL	10	10	10	06/15/2020 16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.863			mg/L	0.200	0.500	1	07/06/2020 15:46
Nitrate-Nitrite (N)	EPA 353.2	0.028			mg/L	0.011	0.020	1	06/24/2020 14:45
pH	FDEP FT1100	7.580	6.5 - 8.5		SU			1	06/15/2020 13:51
Specific Conductance	FDEP FT1200	49504			umho/cm			1	06/15/2020 13:51
Dissolved Oxygen Saturation	FDEP FT1500	26.4	>42		%			1	06/15/2020 13:51
Nitrogen- Total	Nitrogen- Total	0.891	<0.3		mg/L	0.200	0.500	1	07/06/2020 15:46
Chlorophyll a	SM 10200 H	4.1	<4.9		mg/m3	1.00	1.00	1	06/24/2020 09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020 10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020 09:26
Turbidity	SM 2130 B	5.5			NTU	0.10	0.50	1	06/17/2020 07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	07/01/2020 10:36
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020 16:23
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020 10:21
Phosphorus- Total	SM 4500-P E (P	0.102	<0.046		mg/L	0.007	0.020	2	06/30/2020 14:33

ANALYTICAL RESULTS

Report # 0620_MRCO_I

Location: MARCO_BLANK		Field ID: AF60817		Lab ID: AF60817		Collect Date/Time: 6/15/20 11:56			
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020 14:46
Enterococci	Enterolert/QT	1	<130	U	MPN/100 mL	1	1	1	06/15/2020 16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.200		U	mg/L	0.200	0.500	1	07/06/2020 15:47
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020 14:47
pH	FDEP FT1100	NA	6.5 - 8.5		SU			1	06/15/2020 11:56
Specific Conductance	FDEP FT1200	NA			umho/cm			1	06/15/2020 11:56
Dissolved Oxygen Saturation	FDEP FT1500	NA	>42		%			1	06/15/2020 11:56
Nitrogen- Total	Nitrogen- Total	0.200	<0.3	U	mg/L	0.200	0.500	1	07/07/2020 13:39
Chlorophyll a	SM 10200 H	1.0	<4.9	U	mg/m3	1.00	1.00	1	06/24/2020 09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/15/2020 15:58
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020 09:26
Turbidity	SM 2130 B	0.10		U	NTU	0.10	0.50	1	06/17/2020 07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	07/01/2020 10:36
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020 16:09
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020 10:21
Phosphorus- Total	SM 4500-P E (P	0.007	<0.046	U	mg/L	0.007	0.020	1	06/30/2020 14:34

ANALYTICAL RESULTS

Report # 0620_MRCO_II

Location: DUP1		Field ID: AF60818		Lab ID: AF60818		Collect Date/Time: 6/15/20 12:25				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130	U	MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.788			mg/L	0.200	0.500	1	07/06/2020	15:48
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:49
pH	FDEP FT1100	7.760	6.5 - 8.5		SU			1	06/15/2020	12:25
Specific Conductance	FDEP FT1200	50373			umho/cm			1	06/15/2020	12:25
Dissolved Oxygen Saturation	FDEP FT1500	103.9	>42		%			1	06/15/2020	12:25
Nitrogen- Total	Nitrogen- Total	0.788	<0.3		mg/L	0.200	0.500	1	07/06/2020	15:48
Chlorophyll a	SM 10200 H	6.4	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	2.7			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	07/01/2020	10:36
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:24
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.044			mg/L	0.007	0.020	2	06/30/2020	14:35

ANALYTICAL RESULTS

Report # 0620_MRCO_I

Location: OLDE_MARCO		Field ID: AF60819		Lab ID: AF60819		Collect Date/Time: 6/15/20 09:46				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	10	<130		MPN/100 mL	10	10	10	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.819		J	mg/L	0.200	0.500	1	07/06/2020	15:39
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:52
pH	FDEP FT1100	7.960	6.5 - 8.5		SU			1	06/15/2020	09:46
Specific Conductance	FDEP FT1200	51786			umho/cm			1	06/15/2020	09:46
Dissolved Oxygen Saturation	FDEP FT1500	79.7	>42		%			1	06/15/2020	09:46
Nitrogen- Total	Nitrogen- Total	0.819	<0.3	J	mg/L	0.200	0.500	1	07/06/2020	15:39
Chlorophyll a	SM 10200 H	1.7	<4.9		mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/15/2020	15:58
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	3.5			NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	07/01/2020	10:36
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:10
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/23/2020	11:10
Phosphorus- Total	SM 4500-P E (P	0.040	<0.046		mg/L	0.014	0.040	2	06/23/2020	19:04

ANALYTICAL RESULTS

Report # 0620_MRCO_II

Location: MARCO_BLANK		Field ID: AF60820		Lab ID: AF60820		Collect Date/Time: 6/15/20 11:45				
Analyte Name	Method	Result	Acceptable Limits	Qualifier	Units	MDL	PQL	DF	Analysis Date/Time	
CC-Nitrate-N	CC-Nitrate-N	0.011		U	mg/L	0.011	0.020	1	06/26/2020	14:46
Enterococci	Enterolert/QT	1	<130	U	MPN/100 mL	1	1	1	06/15/2020	16:25
Nitrogen- Total Kjeldahl	EPA 351.2	0.200		U	mg/L	0.200	0.500	1	07/06/2020	15:50
Nitrate-Nitrite (N)	EPA 353.2	0.011		U	mg/L	0.011	0.020	1	06/24/2020	14:54
pH	FDEP FT1100	NA	6.5 - 8.5		SU			1	06/15/2020	11:45
Specific Conductance	FDEP FT1200	NA			umho/cm			1	06/15/2020	11:45
Dissolved Oxygen Saturation	FDEP FT1500	NA	>42		%			1	06/15/2020	11:45
Nitrogen- Total	Nitrogen- Total	0.200	<0.3	U	mg/L	0.200	0.500	1	07/07/2020	13:39
Chlorophyll a	SM 10200 H	1.0	<4.9	U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Filtration for Chlorophyll and Phe	SM 10200 H	Completed						1	06/16/2020	10:54
Pheophytin	SM 10200 H	1.00		U	mg/m3	1.00	1.00	1	06/24/2020	09:26
Turbidity	SM 2130 B	0.10		U	NTU	0.10	0.50	1	06/17/2020	07:44
Digestion for TKN	SM 4500 NorgD	Completed						1	07/01/2020	10:36
Nitrite (N)	SM 4500-NO2 B	0.002		U	mg/L	0.002	0.005	1	06/15/2020	16:25
Persulfate Digestion for Total P	SM 4500-P B	Completed						1	06/29/2020	10:21
Phosphorus- Total	SM 4500-P E (P	0.007	<0.046	U	mg/L	0.007	0.020	1	06/30/2020	14:35



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Monday, June 15, 2020

Sampler: Chris Lienhardt

Meter/Notes: Danny Berger



Certificate No

[4262.01](#)

Client: City of Marco Island
Project: Marco Island
Run: I

CCV: Morning		Sonde / Handheld	ProDSS #7	Serial #:	15K101015	
Date/Time:	6/15/20 7:10 AM	Operator:	Geoff Rosenaw	Project:	MARCO	
*** Conductivity ***				Associated Calibration File:		
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail	Calibration_7_061220.xlsm		
70000	13888	70542	Pass			
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00				All CCV Results Pass?		
10.00	13952	10.10	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.58	98.4	22.2	Pass	8.726	761.3
Notes:						
CCV: Afternoon						
Date/Time:	6/15/2020 12:47	Operator:	Danny Berger			
*** Conductivity ***						
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail			
10000	11624	10044	Pass			
70000	13889	70988	Pass			
*** pH ***						
pH (QA Criteria +.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00	13954	7.09	Pass	All CCV Results Pass?		
10.00	13952	10.08	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.38	100.4	24.6	Pass	8.345	761.9
Notes:						
Surface Water Field Workbook Rev 17.0				Effective June 5th, 2020		

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Chris Lienhardt

Meter / Notes: Danny Berger

Date: 6/15/2020

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	D.O. (% SAT)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60819	9:46	OLDE_MARCO	29.3	51786	33.93	79.7	5.08	7.96	0.30		2.00	1.80
AF60819B	9:47	OLDE_MARCO	29.5	54183	35.70	85.1	5.36	8.01	1.70		2.00	1.80
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	YES
Comments: Boat passed by prior to sampling. Difficult to determine tide direction. Tide chart shows outgoing until 4:05 PM.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60804	10:16	JH_PARK	30.2	50333	32.83	83.4	5.27	7.93	0.30		4.30	1.50
AF60804B	10:17	JH_PARK	30.1	51623	33.79	70.5	4.44	7.92	4.00		4.30	1.50
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	YES
Comments: Visible outgoing tide. Boat and dead catfish passed by during sampling.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60805	10:39	HC_CENTER	30.0	48135	31.23	82.6	5.29	7.84	0.30		2.10	2.10
AF60805B	10:40	HC_CENTER	30.3	49033	31.88	76.9	4.88	7.85	1.80		2.10	2.10
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	No flow.	Staff Gauge:			pH < 2:	YES
Comments: Tide appeared to be slack or moving minimally at best. Slight dusty sheen on surface of water. Tide chart shows outgoing until 4:05 PM.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60806	11:02	COLLIER_BRIDGE	30.6	48237	31.29	83.0	5.26	7.88	0.30		1.60	1.60
AF60806B	11:03	COLLIER_BRIDGE	31.1	49129	31.92	70.7	4.43	7.85	1.30		1.60	1.60
Collection Device	Pole Sampler; CDI: 11853		Cleaning Protocol: J			Flow:	Flow.	Staff Gauge:			pH < 2:	YES
Comments: Some sheepshead swimming nearby sample location. Visible outgoing tide.											Sample Type:	SAMP

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Low 90's and sunny.	
Sampling SOP:	FSQM 03-04	24 HRS Prior Weather:	Similar with some PM rain.	

Prepared By: **Danny Berger** Signed: 6/17/2020 8:18:05 AM

Reviewed By: **Christopher Lienhardt** Signed: 6/15/2020 1:10:24 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Chris Lienhardt

Meter / Notes: Danny Berger

Date: 6/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60807	11:22	KENDALL	30.6	49878	32.49	77.6	4.88	7.89	0.30		1.20	1.20
Collection Device		Pole Sampler; CDI: 11853		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2:		YES
Comments: Visible outgoing tide. Boat passed by during sampling.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60808	11:46	BARFIELD_BRIDGE	30.3	52556	34.47	92.8	5.81	7.96	0.30		2.20	1.40
AF60808B	11:48	BARFIELD_BRIDGE	29.6	53701	35.34	76.4	4.81	7.96	1.90		2.20	1.40
Collection Device		Pole Sampler; CDI: 11853		Cleaning Protocol: J		Flow: Flow.		Staff Gauge:		pH < 2:		YES
Comments: Visible outgoing tide. Boat passed by during sampling.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60817	11:56	BARFIELD_BRIDGE										
Collection Device		Sample Container		Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		YES
Comments: FB taken from carboy CDI 13269.											Sample Type:	FB

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Low 90's and sunny.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar with some PM rain.	

Prepared By: Danny Berger

Reviewed By: Christopher Lienhardt

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Chris Lienhardt

Meter / Notes: Danny Berger

Date: 6/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Low 90's and sunny.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar with some PM rain.	

Prepared By: Danny Berger

Reviewed By: Christopher Lienhardt

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: I

Sample Collector: Chris Lienhardt

Meter / Notes: Danny Berger

Date: 6/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Field Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:										Sample Type:		

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Low 90's and sunny.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar with some PM rain.	

Prepared By: Danny Berger

Reviewed By: Christopher Lienhardt

Collier County Pollution Control Surface Water Field Workbook
Audit Trail Worksheet

Sheet & Cell Reference	Initial Value	Changed To	User	Date & Time	Reason For Change	Analyst E-verified Signature
Field Sheet-B19	0.442361111	0.44375	Sampler	6/15/2020 12:25	Incorrect initial entry.	Danny Berger
Calibration-D29	709888	70988	Sampler	6/15/2020 12:59	Incorrect initial entry.	Danny Berger
Field Sheet-B22	Tide appeared to be slack or mo	Tide appeared to be slack or mo	pcl	6/15/2020 13:07	Changed wording.	Danny Berger
Field Sheet-B8	Boat passed by prior to samplinç	Boat passed by prior to samplinç	pcl	6/15/2020 13:09	more details	Danny Berger
Field Sheet-B22	Tide appeared to be slack or mo	Tide appeared to be slack or mo	pcl	6/15/2020 13:09	more details	Danny Berger
Field Sheet-B29	Some sheepshead nearby. Visib	Some sheepshead swimming ne	pcl	6/15/2020 13:10	phrasing	Danny Berger

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CRE# #####

DATE	TIME	SITE	Barometer	Temp (°C)	Sp Cond (µ	TDS (mg/L	Sal (ppt)	pH	pH (mV)
6/15/2020	#####	af60819	763.6	29.3	51785.9	33661	33.93	7.96	-91.4
6/15/2020	#####	af60819	763.7	29.5	54182.6	35219	35.7	8.01	-93.9
6/15/2020	#####	af60804	763.7	30.2	50333.1	32716	32.83	7.93	-89.3
6/15/2020	#####	af60804	763.5	30.1	51623.4	33555	33.79	7.92	-88.7
6/15/2020	#####	af60805	763.5	30	48134.7	31288	31.23	7.84	-84.2
6/15/2020	#####	af60805	763.7	30.3	49033	31871	31.88	7.85	-84.7
6/15/2020	#####	af60806	763.5	30.6	48236.6	31354	31.29	7.88	-86.6
6/15/2020	#####	af60806	763.6	31.1	49128.8	31934	31.92	7.85	-84.8
6/15/2020	#####	af60807	763.7	30.6	49877.9	32421	32.49	7.89	-87.5
6/15/2020	#####	af60808	763.4	30.3	52556.1	34161	34.47	7.96	-91.2
6/15/2020	#####	af60808	763.4	29.6	53700.8	34906	35.34	7.96	-91.4

ODO (% S:ODO (mg/l	ODO (% LocalB)	
80.1	5.08	79.7
85.5	5.36	85.1
83.8	5.27	83.4
70.8	4.44	70.5
83	5.29	82.6
77.3	4.88	76.9
83.4	5.26	83
71	4.43	70.7
77.9	4.88	77.6
93.3	5.81	92.8
76.8	4.81	76.4



Collier County™

POLLUTION CONTROL

LIVE GREEN. SAVE BLUE.

Field Sampling Report

Date: Monday, June 15, 2020

Sampler: Krystal Silas

Meter/Notes: Geoff Rosenaw



Certificate No

[4262.01](#)

Client: City of Marco Island
Project: Marco Island
Run: II

CCV: Morning		Sonde / Handheld	ProDSS #11	Serial #:	19E104158	
Date/Time:	6/15/20 7:01 AM	Operator:	Geoff Rosenaw	Project:	MARCO	
*** Conductivity ***					Associated Calibration File:	
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail	Calibration_11_061220.xlsm		
70000	13888	68888	Pass			
*** pH ***						
pH (QA Criteria ±.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00				All CCV Results Pass?		
10.00	13952	9.94	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.78	99.6	21.6	Pass	8.816	760.2
Notes:						
CCV: Afternoon						
Date/Time:	6/15/2020 14:48	Operator:	Geoff Rosenaw			
*** Conductivity ***						
Standard (µmhos/cm) ± 5%	CDI#	Reading	Pass/Fail			
10000	11624	9833	Pass			
70000	13889	69607	Pass			
*** pH ***						
pH (QA Criteria +.2)	CDI#	Reading	Pass/Fail			
4.00						
7.00	13954	7.07	Pass	All CCV Results Pass?		
10.00	13952	10.00	Pass	Yes		
*** Dissolved Oxygen ***						
D.O. (QA Criteria ±3mg/l)	mg/L	%	°C	Pass/Fail	True Value	Barometric Pressure
CCV Readings --->	8.11	98.3	25.1	Pass	8.245	759.8
Notes:						
Surface Water Field Workbook Rev 17.0				Effective June 5th, 2020		

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Geoff Rosenaw

Date: 6/15/2020

LAB ID	TIME	STATION	Temp (°C)	Sp Cond (µS/cm)	Sal (ppt)	D.O. (% SAT)	ODO (mg/L)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60809	10:02	LANDMARK	30.1	47241	30.58	104.1	6.66	7.95	0.30		2.10	2.10
AF60809B	10:04	LANDMARK	31.4	51991	34.01	72.9	4.48	7.80	1.80		2.10	2.10
Collection Device	Pole Sampler; CDI: 13545		Cleaning Protocol: J			Flow: No flow.		Staff Gauge:		pH < 2:		YES
Comments: Tide scheduled to be outgoing for time sample was collected. Lot adjacent to site has discharges fill into canal. Silt fence no longer in place.											Sample Type:	SAMP
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60810	10:34	W_WINTERBERRY_BRIDGE	30.1	49609	32.31	100.8	6.39	7.95	0.30		2.40	1.60
AF60810B	10:36	W_WINTERBERRY_BRIDGE	29.8	53055	34.85	79.0	4.96	7.92	2.10		2.40	1.60
Collection Device	Pole Sampler; CDI: 13545		Cleaning Protocol: J			Flow:		Staff Gauge:		pH < 2:		YES
Comments: Visible outgoing tide.											Sample Type:	SAMP
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60811	11:02	MCILVAINE	30.1	53166	34.92	93.7	5.86	7.94	0.30		1.40	1.40
Collection Device	Pole Sampler; CDI: 13545		Cleaning Protocol: J			Flow:		Staff Gauge:		pH < 2:		YES
Comments: Visible outgoing tide.											Sample Type:	SAMP
LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60815	11:31	E_WINTERBERRY_BRIDGE	30.4	51212	33.47	99.3	6.23	7.89	0.30		1.40	1.40
Collection Device	Pole Sampler; CDI: 13545		Cleaning Protocol: J			Flow:		Staff Gauge:		pH < 2:		YES
Comments: Strong smell of bat guano. Visibly outgoing tide.											Sample Type:	SAMP

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Mid 90s. No Rain.	
Sampling SOP:	FSQM 03-04	24 HRS Prior Weather:	Similar. Rain in evenings.	

Prepared By: **Geoff Rosenaw** Signed: 6/15/2020 3:13:51 PM

Reviewed By: **Danny Berger** Signed: 6/15/2020 3:21:44 PM

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Geoff Rosenaw

Date: 6/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60820	11:45	E_WINTERBERRY_BRIDGE										
Collection Device:		Sample Container:		Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		YES
Comments: FB taken from CDI 08334.										Sample Type:		FB

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60814	12:19	HOLLYHOCK	31.8	50170	32.66	98.0	6.03	7.75	0.30		1.40	1.10
Collection Device:		Pole Sampler; CDI: 13545		Cleaning Protocol: J		Flow: No flow.		Staff Gauge:		pH < 2:		YES
Comments: Tide scheduled to be outgoing for time sample was collected.										Sample Type:		SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60818	12:25	HOLLYHOCK	31.8	50373	32.81	103.9	6.39	7.76	0.30		1.40	1.10
Collection Device:		Pole Sampler; CDI: 13545		Cleaning Protocol: J		Flow: No flow.		Staff Gauge:		pH < 2:		YES
Comments: Tide scheduled to be outgoing for time sample was collected.										Sample Type:		REP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60812	12:53	WINDMILL	31.0	48432	31.42	119.1	7.47	7.79	0.30		2.40	1.00
AF60812B	12:55	WINDMILL	30.3	50250	32.77	87.1	5.48	7.76	2.10		2.40	1.00
Collection Device:		Pole Sampler; CDI: 13545		Cleaning Protocol: J		Flow:		Staff Gauge:		pH < 2:		YES
Comments: Visible outgoing tide. Strong smell of bat guano.										Sample Type:		SAMP

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Mid 90s. No Rain.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar. Rain in evenings.	

Prepared By: Geoff Rosenaw

Reviewed By: Danny Berger

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Geoff Rosenaw

Date: 6/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60813	13:21	HUMMINGBIRD	31.1	47990	31.09	109.5	6.87	7.78	0.30		1.20	1.00
Collection Device:		Pole Sampler; CDI: 13545		Cleaning Protocol: J		Flow: No flow.		Staff Gauge:		pH < 2:		YES
Comments: Empty lot adjacent to site has no erosion controls in place. Shall be turned over to City of Marco. Sample collected during scheduled outgoing tide.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
AF60816	13:51	SWALLOW	31.0	49504	32.20	26.4	1.65	7.58	0.30		1.30	0.80
Collection Device:		Pole Sampler; CDI: 13545		Cleaning Protocol: J		Flow:		Staff Gauge:		pH < 2:		YES
Comments: Storm culvert at site discharging during time of collection.											Sample Type:	SAMP

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device:				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device:				Cleaning Protocol:		Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Mid 90s. No Rain.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar. Rain in evenings.	

Prepared By: Geoff Rosenaw
Reviewed By: Danny Berger

Collier County Pollution Control Surface Water Field Workbook
Field Sheet Worksheet

Program: MARCO

Run: II

Sample Collector: Krystal Silas

Meter / Notes: Geoff Rosenaw

Date: 6/15/2020

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Field Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

LAB ID	TIME	STATION	TEMP. (° C)	SPEC. COND. (µmhos/cm)	SALINITY (ppt)	D.O. (% SAT)	D.O. (mg/l)	pH	SAMPLE DEPTH (meters)	STAFF GAUGE (feet)	WATER DEPTH (meters)	SECCHI DEPTH (meters)
Collection Device			Cleaning Protocol:			Flow:		Staff Gauge:		pH < 2:		
Comments:											Sample Type:	

Bottles Per Site / Shipped Per Site:	5 / 0	Matrix: SW	Named storm event that impacted sampling event?	No
Sites Access By:	Truck	Weather:	Sunny. Mid 90s. No Rain.	
Sampling SOP Used:	FSQM 03-04	24 HRS Prior Weather:	Similar. Rain in evenings.	

Prepared By: Geoff Rosenaw

Reviewed By: Danny Berger



Collier County Pollution Control Department Chain of Custody

3339 Tamiami Trail East, Bldg. Ste. 304 Naples, Florida 34112

Phone: (239) 252-2502 FAX: (239) 252-6479

NELAC Certification: #E45464

Client Information

Name: Rhonda Watkins
Company Name: Collier County Natural Resources
Address: 2685 South Horseshoe Drive Ste 103, Fl 34104
Phone: (239) 252-2502 Ext. 6049
Fax: (239) 252-6479

PRESERVATION CODES	Lot#	Prs. Vol.	Prs. Lot#	Prs. Supp.	Prs. Date	Initials
1G 1000mL HDPE/Ice	76877					
2C 1L Opaque HDPE/Light-shielded/Ice	AF60593, AF59313					
3S 250ml HDPE/H2SO4/Ice	CDI14244	16 Drops	RP15199	Fisher	6/15/2020	GR
4F 60ml Opaque HDPE/Filtered/Ice	AF55358					
5J 120mL HDPE w/Sodium Thiosulfate/Ice	CDI134568					
14 Whatman Polydisc GW 0.45µm	A29352435, A24365266					

Project	MARCO	MATRIX CODES
Sample Collector(s):		GW Ground Water
Krystal Silas		SW Surface Water
Sample Collector Signature:		WW Waste Water
		DW Drinking Water
		Other _____
Relinquished By: (Signature)		

Received By: (Signature)	Date/Time	6/15/20 3:24 PM
Relinquished By: (Signature)	Date/Time	6/15/20 3:24 PM
Received By: (Signature)	Date/Time	

Parameters										Sample Check-In		
Turbidity-PC Chlorophyll-PC, Pheophytin-PC, Prep-Chloro Nitrogen-TKN, Phosphorous-Total, Nitrate-Nitrite, Prep-TKN Nitrite-PC Enterolert-PC TN-PC, CC-Nitrate-N-PC											Sample(s) Intact?	
											Rec'd in wet ice?	
											Temp °C:	
											Proper Samp ID?	
											Rec'd within hold time?	
											Acid preserved samples pH<2?	
Bottle Codes										Logged In?		
											Scanned?	

Date	Time	Field pH	Sp. Cond.	Sample Depth	Location	Matrix	# of sample Containers Submitted										Lab ID #				
							1G	2C	3S	4F	5J	Calc									
6/15/2020	10:02	7.95	47241	0.30	LANDMARK	SW	1	1	1	1	1										AF60809
6/15/2020	10:34	7.95	49609	0.30	W_WINTERBERRY_BRIDGE	SW	1	1	1	1	1										AF60810
6/15/2020	11:02	7.94	53166	0.30	MCLVAINE	SW	1	1	1	1	1										AF60811
6/15/2020	11:31	7.89	51212	0.30	E_WINTERBERRY_BRIDGE	SW	1	1	1	1	1										AF60815
6/15/2020	11:45	#N/A	#N/A	#N/A	E_WINTERBERRY_BRIDGE	SW	1	1	1	1	1										AF60820
6/15/2020	12:19	7.75	50170	0.30	HOLLYHOCK	SW	1	1	1	1	1										AF60814
6/15/2020	12:25	7.76	50373	0.30	REPLICATE	SW	1	1	1	1	1										AF60818
6/15/2020	12:53	7.79	48432	0.30	WINDMILL	SW	1	1	1	1	1										AF60812
6/15/2020	13:21	7.78	47990	0.30	HUMMINGBIRD	SW	1	1	1	1	1										AF60813
6/15/2020	13:51	7.58	49504	0.30	SWALLOW	SW	1	1	1	1	1										AF60816

Notes:

Collier County Pollution Control Surface Water Field Workbook
Audit Trail Worksheet

Sheet & Cell Reference	Initial Value	Changed To	User	Date & Time	Reason For Change	Analyst E-verified Signature
Calibration-G15	y760.2		760.2 Sampler	6/15/2020 7:10	Typo	Geoff Rosenaw
Field Sheet-C19	HUMMINGBIRD	MCILVAINE	Sampler	6/15/2020 11:07	CLICKED TOO QUICK	Geoff Rosenaw
Field Sheet-B26	0.481944444		1/0/1900 11:31 Sampler	6/15/2020 11:43	Incorrect initial entry.	Geoff Rosenaw
Field Sheet-M40	SAMP	FB	Sampler	6/15/2020 11:45	Incorrect initial entry.	Geoff Rosenaw
Field Sheet-B47	Tide scheduled to be outgoing fc	Tide scheduled to be outgoing fc	Sampler	6/15/2020 12:31	auto fill	Geoff Rosenaw
Field Sheet-B54	Time sche	Tide scheduled to be outgoing fc	Sampler	6/15/2020 12:31	Incorrect initial entry.	Geoff Rosenaw
Field Sheet-B46	VanDorn; CDI: 08722	Pole Sampler; CDI: 13545	Sampler	6/15/2020 12:31	Incorrect initial entry.	Geoff Rosenaw
Field Sheet-B61	Visible outgoing tide.	Visible outgoing tide. Strobrng sn	Sampler	6/15/2020 13:07	Incorrect initial entry.	Geoff Rosenaw
Chain of Custody-H8		76877 AF60593. AF59313	Sampler	6/15/2020 14:46	AF55358	Geoff Rosenaw
Chain of Custody-H12	A	A29352435, A24365266	Sampler	6/15/2020 14:47	Incorrect initial entry.	Geoff Rosenaw
Chain of Custody-E19	6/15/2020 14:48	6/15/2020 14:58	Sampler	6/15/2020 14:49	Incorrect initial entry.	Geoff Rosenaw
Chain of Custody-E19	6/15/2020 14:58	6/15/2020 15:24	pcl	6/15/2020 15:14	Delay in turning samples in to lab	Geoff Rosenaw
Field Sheet-B61	Visible outgoing tide. Strobrng sn	Visible outgoing tide. Strong smε pcl		6/15/2020 15:21	Incorrect initial entry.	Geoff Rosenaw

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CRE/ 6/15/2020 19:00

DATE	TIME	SITE	GPS Latitu	GPS Longi	Barometer	Temp (°C)	Cond (µS/c	Sp Cond (µ
6/15/2020	10:02:49 AM	af60809	89.99999	180	762.6	30.1	51842.9	47240.8
6/15/2020	10:04:22 AM	af60809	89.99999	180	762.5	31.4	58340.3	51990.9
6/15/2020	10:34:40 AM	af60810	89.99999	180	762.4	30.1	54474.2	49608.9
6/15/2020	10:36:04 AM	af60810	89.99999	180	762.5	29.8	57879.7	53055.4
6/15/2020	11:02:38 AM	af60811	89.99999	180	762.5	30.1	58359.3	53165.5
6/15/2020	11:31:48 AM	af60815	89.99999	180	762.4	30.4	56472.2	51212.4
6/15/2020	12:19:39 PM	af60814	89.99999	180	762.2	31.8	56730.8	50169.9
6/15/2020	12:25:34 PM	af60818	89.99999	180	762.1	31.8	56917.9	50372.5
6/15/2020	12:53:03 PM	af60812	89.99999	180	761.5	31	53963.7	48432.3
6/15/2020	12:55:33 PM	af60812	89.99999	180	761.7	30.3	55362	50250.4
6/15/2020	1:20:29 PM	af60812	89.99999	180	761.6	31	53484.8	47993.1
6/15/2020	1:21:05 PM	af60813	89.99999	180	761.6	31.1	53564.7	47989.7
6/15/2020	1:51:05 PM	af60816	89.99999	180	761.7	31	55199	49504.2

Sal (ppt)	pH	pH (mV)	ODO (mg/L)	ODO (% LocalB)
30.58	7.95	-77.1	6.66	104.1
34.01	7.8	-68.5	4.48	72.9
32.31	7.95	-77.5	6.39	100.8
34.85	7.92	-75.5	4.96	79
34.92	7.94	-76.6	5.86	93.7
33.47	7.89	-74	6.23	99.3
32.66	7.75	-65.6	6.03	98
32.81	7.76	-66	6.39	103.9
31.42	7.79	-68	7.47	119.1
32.77	7.76	-66.3	5.48	87.1
31.1	7.76	-66.4	6.75	107.4
31.09	7.78	-67.6	6.87	109.5
32.2	7.58	-55.3	1.65	26.4

Collier County Pollution Control
Data Export Worksheet

Activity ID	Project ID	Actual Start Date/Time	Municipality/Location ID	Activity Type	Sample Collection Type	Sample Collection Equipment Name	Meth	Activity Depth	Total Depth (ft)	Oil Analyte Name	NDAP Analyte ID	Analysis Method	Oil Result Value	Gas Result Unit	Field Blank Bag ID	Equipment Blank Bag ID	Meteor Activity ID	Tire Blank Bag ID	Value Qualifier	Result Comment	Activity Comments	Sample Name	Sample Co	Sample Co	
AF60808P	MARCO	6/15/2020 10:24	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	Dissolved Oxygen	1800	FDEP FT1500	6.56 mg/L	mg/L	FB AF60808						This scheduled to be outgassed for time sample was collected. Lot #	Grosvenor/KSA	Direct	Oil	Water Bott
AF60808P	MARCO	6/15/2020 10:34	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	Dissolved Oxygen	1880	FDEP FT1500	4.48 mg/L	mg/L	FB AF60808						This scheduled to be outgassed for time sample was collected. Lot #	Grosvenor/KSA	Direct	Oil	Water Bott
AF60808P	MARCO	6/15/2020 10:34	W WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Dissolved Oxygen	1880	FDEP FT1500	6.39 mg/L	mg/L	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60808P	MARCO	6/15/2020 10:36	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	Dissolved Oxygen	1880	FDEP FT1500	4.96 mg/L	mg/L	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60811F	MARCO	6/15/2020 11:02	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen	1880	FDEP FT1500	5.86 mg/L	mg/L	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60815F	MARCO	6/15/2020 11:31	E WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen	1880	FDEP FT1500	6.23 mg/L	mg/L	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60814F	MARCO	6/15/2020 12:19	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen	1880	FDEP FT1500	6.03 mg/L	mg/L	FB AF60808						This scheduled to be outgassed for time sample was collected. No II	Grosvenor/KSA	Direct	Oil	Water Bott
AF60815F	MARCO	6/15/2020 12:25	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen	1880	FDEP FT1500	6.39 mg/L	mg/L	FB AF60808						This scheduled to be outgassed for time sample was collected. No II	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Dissolved Oxygen	1880	FDEP FT1500	7.47 mg/L	mg/L	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Dissolved Oxygen	1880	FDEP FT1500	6.48 mg/L	mg/L	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60813F	MARCO	6/15/2020 13:21	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.20	Dissolved Oxygen	1880	FDEP FT1500	6.87 mg/L	mg/L	FB AF60808						Empty lot adjacent to site has no erosion controls in place. Shall be	Grosvenor/KSA	Direct	Oil	Water Bott
AF60816F	MARCO	6/15/2020 13:51	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.30	Dissolved Oxygen	1880	FDEP FT1500	1.65 mg/L	mg/L	FB AF60808						Storm culvert at site discharging during time of collection.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:24	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	104.1	%	FB AF60808						This scheduled to be outgassed for time sample was collected. Lot #	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:34	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	72.9	%	FB AF60808						This scheduled to be outgassed for time sample was collected. Lot #	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:36	W WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	2.40	2.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	79.0	%	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60808F	MARCO	6/15/2020 10:36	W WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	79.0	%	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60811F	MARCO	6/15/2020 11:02	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	96.1	%	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60815F	MARCO	6/15/2020 11:31	E WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	96.1	%	FB AF60808						Strong smell of bat guano. Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60814F	MARCO	6/15/2020 12:19	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	103.8	%	FB AF60808						This scheduled to be outgassed for time sample was collected. No II	Grosvenor/KSA	Direct	Oil	Water Bott
AF60818FD	MARCO	6/15/2020 12:25	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	103.8	%	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	119.1	%	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	119.1	%	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60813F	MARCO	6/15/2020 13:21	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.20	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	109.5	%	FB AF60808						Empty lot adjacent to site has no erosion controls in place. Shall be	Grosvenor/KSA	Direct	Oil	Water Bott
AF60816F	MARCO	6/15/2020 13:51	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.30	Dissolved Oxygen Saturation	WIN-011	FDEP FT1500	109.5	%	FB AF60808						Storm culvert at site discharging during time of collection.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:24	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	pH	1900	FDEP FT1100	7.95	pH	FB AF60808						This scheduled to be outgassed for time sample was collected. Lot #	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:34	W WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	pH	1900	FDEP FT1100	7.95	pH	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60818FD	MARCO	6/15/2020 12:25	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	pH	1900	FDEP FT1100	7.95	pH	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	pH	1900	FDEP FT1100	7.92	pH	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	pH	1900	FDEP FT1100	7.94	pH	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60811F	MARCO	6/15/2020 11:02	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	pH	1900	FDEP FT1100	7.89	pH	FB AF60808						Strong smell of bat guano. Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60814F	MARCO	6/15/2020 12:19	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	pH	1900	FDEP FT1100	7.76	pH	FB AF60808						This scheduled to be outgassed for time sample was collected. No II	Grosvenor/KSA	Direct	Oil	Water Bott
AF60818FD	MARCO	6/15/2020 12:25	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	pH	1900	FDEP FT1100	7.76	pH	FB AF60808						This scheduled to be outgassed for time sample was collected. No II	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	pH	1900	FDEP FT1100	7.79	pH	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	pH	1900	FDEP FT1100	7.76	pH	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:24	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	1.80	2.10	pH	1900	FDEP FT1100	7.76	pH	FB AF60808						Storm culvert at site discharging during time of collection.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60816F	MARCO	6/15/2020 13:51	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.30	pH	1900	FDEP FT1100	7.58	pH	FB AF60808						Storm culvert at site discharging during time of collection.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:24	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	Salinity	1975	FDEP FT1300	30.58	ppm	FB AF60808						This scheduled to be outgassed for time sample was collected. Lot #	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:34	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.10	Salinity	1975	FDEP FT1300	34.01	ppm	FB AF60808						This scheduled to be outgassed for time sample was collected. Lot #	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:34	W WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	2.40	2.40	Salinity	1975	FDEP FT1300	32.31	ppm	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:36	W WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	Salinity	1975	FDEP FT1300	34.85	ppm	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60811F	MARCO	6/15/2020 11:02	MCLIVANE	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Salinity	1975	FDEP FT1300	34.92	ppm	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60815F	MARCO	6/15/2020 11:31	E WINTERBERRY BR	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Salinity	1975	FDEP FT1300	33.47	ppm	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60814F	MARCO	6/15/2020 12:19	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Salinity	1975	FDEP FT1300	32.66	ppm	FB AF60808						This scheduled to be outgassed for time sample was collected. No II	Grosvenor/KSA	Direct	Oil	Water Bott
AF60818FD	MARCO	6/15/2020 12:25	HOLLYHOCK	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.40	Salinity	1975	FDEP FT1300	31.47	ppm	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	2.40	Salinity	1975	FDEP FT1300	31.47	ppm	FB AF60808						This scheduled to be outgassed for time sample was collected. No II	Grosvenor/KSA	Direct	Oil	Water Bott
AF60812F	MARCO	6/15/2020 12:53	WINDMILL	Field	Field Testing-Discrete	Misc Field Device	SW	2.10	2.40	Salinity	1975	FDEP FT1300	31.47	ppm	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60813F	MARCO	6/15/2020 13:21	HUMMINGBIRD	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.20	Salinity	1975	FDEP FT1300	31.09	ppm	FB AF60808						Visible outgassing.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60816F	MARCO	6/15/2020 13:51	SWALLOW	Field	Field Testing-Discrete	Misc Field Device	SW	0.30	1.30	Salinity	1975	FDEP FT1300	32.20	ppm	FB AF60808						Storm culvert at site discharging during time of collection.	Grosvenor/KSA	Direct	Oil	Water Bott
AF60809F	MARCO	6/15/2020 10:24	LANDMARK	Field	Field Testing-Discrete	Misc Field Device	SW	0.3																	