

December 9, 2020

Jason Tomassetti
City of Marco Island
50 Bald Eagle Drive
Marco Island, FL 34145

RE: Workorder: F2004955 MARCO ISLAND WATER QUALITY

Dear Jason Tomassetti:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday, November 23, 2020. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Josh Snead - Laboratory Manager
JSnead@aellab.com

Enclosures

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SAMPLE SUMMARY

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID	Sample ID	Matrix	Date Collected	Date Received
F2004955001	BARFIELD BRIDGE	Water	11/23/2020 08:50	11/23/2020 13:15
F2004955002	OLDE MARCO	Water	11/23/2020 09:03	11/23/2020 13:15
F2004955003	JH PARK	Water	11/23/2020 09:20	11/23/2020 13:15
F2004955004	KENDELL	Water	11/23/2020 09:37	11/23/2020 13:15
F2004955005	COLLIER BRIDGE	Water	11/23/2020 09:54	11/23/2020 13:15
F2004955006	HC CENTER	Water	11/23/2020 10:10	11/23/2020 13:15
F2004955007	LANDMARK	Water	11/23/2020 10:24	11/23/2020 13:15
F2004955008	LANDMARK DUP	Water	11/23/2020 10:30	11/23/2020 13:15
F2004955009	SWALLOW	Water	11/23/2020 10:48	11/23/2020 13:15
F2004955010	WEST WINTERBERRY BRIDGE	Water	11/23/2020 11:10	11/23/2020 13:15
F2004955011	EAST WINTERBERRY BRIDGE	Water	11/23/2020 11:25	11/23/2020 13:15
F2004955012	MCILVAINE	Water	11/23/2020 11:42	11/23/2020 13:15
F2004955013	HOLLYHOCK	Water	11/23/2020 12:00	11/23/2020 13:15
F2004955014	HUMMINGBIRD	Water	11/23/2020 12:12	11/23/2020 13:15
F2004955015	WINDMILL	Water	11/23/2020 12:23	11/23/2020 13:15
F2004955016	EQUIPMENT BLANK	Water	11/23/2020 12:35	11/23/2020 13:15

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955001**
Sample ID: **BARFIELD BRIDGE**

Date Received: 11/23/20 13:15 Matrix: Water
Date Collected: 11/23/20 08:50

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth			Analytical Method: DISRES					
Sample Depth	0.3		meters	1			11/23/2020 08:50	F^
Secchi Disc	1.6		meters	1			11/23/2020 08:50	F^
Total Depth	2		meters	1			11/23/2020 08:50	F^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	51830		umhos/cm	1			11/23/2020 08:50	F^
DO Saturation %	66.8		%	1			11/23/2020 08:50	F^
Dissolved Oxygen	4.8		mg/L	1			11/23/2020 08:50	F^
Salinity	34.12		ppt	1			11/23/2020 08:50	F^
Temperature	24		°C	1			11/23/2020 08:50	F^
pH	8.1		SU	1			11/23/2020 08:50	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen, Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.36		mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	1.2		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.34	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus, E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.005	U	mg/L	1	0.01	0.005	12/1/2020 11:50	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	3.6	1	mg/m3	1	3.0	2.5	12/9/2020 11:51	G

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955001** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **BARFIELD BRIDGE** Date Collected: 11/23/20 08:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.019	J4	mg/L	1	0.010	0.0060	11/24/2020 17:43	T
Nitrate + Nitrite	0.021		mg/L	1	0.020	0.010	11/24/2020 17:43	T
Nitrite (as N)	0.0080	U,J4	mg/L	1	0.010	0.0080	11/24/2020 17:43	T

Lab ID: **F2004955002** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **OLDE MARCO** Date Collected: 11/23/20 09:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 09:03	F^
Secchi Disc	1.8		meters	1			11/23/2020 09:03	F^
Total Depth	2.1		meters	1			11/23/2020 09:03	F^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	51837		umhos/cm	1			11/23/2020 09:03	F^
DO Saturation %	55		%	1			11/23/2020 09:03	F^
Dissolved Oxygen	3.75		mg/L	1			11/23/2020 09:03	F^
Salinity	34.15		ppt	1			11/23/2020 09:03	F^
Temperature	24.2		°C	1			11/23/2020 09:03	F^
pH	8.21		SU	1			11/23/2020 09:03	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955002** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **OLDE MARCO** Date Collected: 11/23/20 09:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.29		mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	1.2		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.27	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.005	U	mg/L	1	0.01	0.005	12/1/2020 11:50	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.017		mg/L	1	0.010	0.0060	11/24/2020 17:45	T
Nitrate + Nitrite	0.016	I	mg/L	1	0.020	0.010	11/24/2020 17:45	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:45	T

Lab ID: **F2004955003** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **JH PARK** Date Collected: 11/23/20 09:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 09:20	F^
Secchi Disc	2.9		meters	1			11/23/2020 09:20	F^
Total Depth	3.1		meters	1			11/23/2020 09:20	F^

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955003** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **JH PARK** Date Collected: 11/23/20 09:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	47761		umhos/cm	1			11/23/2020 09:20	F^
DO Saturation %	66.3		%	1			11/23/2020 09:20	F^
Dissolved Oxygen	4.44		mg/L	1			11/23/2020 09:20	F^
Salinity	31.1		ppt	1			11/23/2020 09:20	F^
Temperature	24.5		°C	1			11/23/2020 09:20	F^
pH	8.14		SU	1			11/23/2020 09:20	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10		MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.28		mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	0.54		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN, E351.2, Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.24	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus, E365.3, Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.005	U	mg/L	1	0.01	0.005	12/1/2020 11:50	G
Analysis Desc: Chlorophylls, SM10200H, Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	3.2		mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.037		mg/L	1	0.010	0.0060	11/24/2020 17:46	T
Nitrate + Nitrite	0.037		mg/L	1	0.020	0.010	11/24/2020 17:46	T

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955003**

Date Received: 11/23/20 13:15 Matrix: Water

Sample ID: **JH PARK**

Date Collected: 11/23/20 09:20

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:46	T

Lab ID: **F2004955004**

Date Received: 11/23/20 13:15 Matrix: Water

Sample ID: **KENDELL**

Date Collected: 11/23/20 09:37

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Sample Depth

Analytical Method: DISRES

Sample Depth	0.3		meters	1			11/23/2020 09:37	F^
Secchi Disc	1.5		meters	1			11/23/2020 09:37	F^
Total Depth	1.5		meters	1			11/23/2020 09:37	F^

Analysis Desc: Data entry of field measurements

Analytical Method: Field Measurements

Conductivity	47333		umhos/cm	1			11/23/2020 09:37	F^
DO Saturation %	53.1		%	1			11/23/2020 09:37	F^
Dissolved Oxygen	3.6		mg/L	1			11/23/2020 09:37	F^
Salinity	30.8		ppt	1			11/23/2020 09:37	F^
Temperature	24.8		°C	1			11/23/2020 09:37	F^
pH	8.11		SU	1			11/23/2020 09:37	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water

Analytical Method: ENTEROLERT/ QUANTI-TRAY

Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F
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WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water

Analytical Method: Calculation

Total Nitrogen	0.43		mg/L	1	0.20	0.12	12/9/2020 09:42	T
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Analysis Desc: Turbidity, E180.1, Water

Analytical Method: EPA 180.1

Turbidity	1.4		NTU	1	0.10	0.10	11/24/2020 10:50	F
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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955004** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **KENDELL** Date Collected: 11/23/20 09:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.39	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.018		mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.032		mg/L	1	0.010	0.0060	11/24/2020 17:46	T
Nitrate + Nitrite	0.035		mg/L	1	0.020	0.010	11/24/2020 17:46	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:46	T

Lab ID: **F2004955005** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **COLLIER BRIDGE** Date Collected: 11/23/20 09:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 09:54	F^
Secchi Disc	2.8		meters	1			11/23/2020 09:54	F^
Total Depth	3		meters	1			11/23/2020 09:54	F^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	47325		umhos/cm	1			11/23/2020 09:54	F^
DO Saturation %	52.2		%	1			11/23/2020 09:54	F^
Dissolved Oxygen	3.67		mg/L	1			11/23/2020 09:54	F^
Salinity	30.78		ppt	1			11/23/2020 09:54	F^

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955005**
 Sample ID: **COLLIER BRIDGE**

Date Received: 11/23/20 13:15 Matrix: Water
 Date Collected: 11/23/20 09:54

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	24.9		°C	1			11/23/2020 09:54	F^
pH	8.12		SU	1			11/23/2020 09:54	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-
 QT Prep,Water Analytical Method: ENTEROLERT/ QUANTI-TRAY

Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F
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WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water Analytical Method: Calculation

Total Nitrogen	0.35		mg/L	1	0.20	0.12	12/9/2020 09:42	T
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Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	1.1		NTU	1	0.10	0.10	11/24/2020 10:50	F
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Analysis Desc: TKN, E351.2, Water Preparation Method: Copper Sulfate Digestion
 Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.33	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
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Analysis Desc: Total Phosphorus, E365.3, Analysis Preparation Method: EPA 365.3
 Analytical Method: EPA 365.3

Total Phosphorus (as P)	0.008	I	mg/L	1	0.01	0.005	12/1/2020 12:10	G
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Analysis Desc: Chlorophylls, SM10200H, Water Analytical Method: SM 10200 H

Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Phaeophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G

Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F Analytical Method: SM 4500NO3-F (Low Level)

Nitrate (as N)	0.021		mg/L	1	0.010	0.0060	11/24/2020 17:47	T
Nitrate + Nitrite	0.020		mg/L	1	0.020	0.010	11/24/2020 17:47	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:47	T

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955006** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **HC CENTER** Date Collected: 11/23/20 10:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth			Analytical Method: DISRES					
Sample Depth	0.3		meters	1			11/23/2020 10:10	F^
Secchi Disc	1.8		meters	1			11/23/2020 10:10	F^
Total Depth	1.8		meters	1			11/23/2020 10:10	F^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	47190		umhos/cm	1			11/23/2020 10:10	F^
DO Saturation %	60.5		%	1			11/23/2020 10:10	F^
Dissolved Oxygen	4.48		mg/L	1			11/23/2020 10:10	F^
Salinity	30.7		ppt	1			11/23/2020 10:10	F^
Temperature	24.7		°C	1			11/23/2020 10:10	F^
pH	8.16		SU	1			11/23/2020 10:10	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.39		mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	0.54		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.37	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.005	U	mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955006** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **HC CENTER** Date Collected: 11/23/20 10:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.023		mg/L	1	0.010	0.0060	11/24/2020 17:48	T
Nitrate + Nitrite	0.021		mg/L	1	0.020	0.010	11/24/2020 17:48	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:48	T

Lab ID: **F2004955007** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **LANDMARK** Date Collected: 11/23/20 10:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 10:24	F^
Secchi Disc	2.5		meters	1			11/23/2020 10:24	F^
Total Depth	2.5		meters	1			11/23/2020 10:24	F^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49983		umhos/cm	1			11/23/2020 10:24	F^
DO Saturation %	54.6		%	1			11/23/2020 10:24	F^
Dissolved Oxygen	3.68		mg/L	1			11/23/2020 10:24	F^
Salinity	32.72		ppt	1			11/23/2020 10:24	F^
Temperature	25.2		°C	1			11/23/2020 10:24	F^
pH	8.2		SU	1			11/23/2020 10:24	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955007** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **LANDMARK** Date Collected: 11/23/20 10:24

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.35		mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	0.29		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.33	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.011		mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	3.2		mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.022		mg/L	1	0.010	0.0060	11/24/2020 17:49	T
Nitrate + Nitrite	0.021		mg/L	1	0.020	0.010	11/24/2020 17:49	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:49	T

Lab ID: **F2004955008** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **LANDMARK DUP** Date Collected: 11/23/20 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 10:30	F^
Secchi Disc	2.5		meters	1			11/23/2020 10:30	F^
Total Depth	2.5		meters	1			11/23/2020 10:30	F^

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955008**

Date Received: 11/23/20 13:15 Matrix: Water

Sample ID: **LANDMARK DUP**

Date Collected: 11/23/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49998		umhos/cm	1			11/23/2020 10:30	F^
DO Saturation %	54.1		%	1			11/23/2020 10:30	F^
Dissolved Oxygen	3.38		mg/L	1			11/23/2020 10:30	F^
Salinity	32.76		ppt	1			11/23/2020 10:30	F^
Temperature	25.2		°C	1			11/23/2020 10:30	F^
pH	8.11		SU	1			11/23/2020 10:30	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.44		mg/L	1	0.20	0.12	12/9/2020 09:42	T

Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	0.42		NTU	1	0.10	0.10	11/24/2020 10:50	F

Analysis Desc: TKN, E351.2, Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.41	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G

Analysis Desc: Total Phosphorus, E365.3, Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.032		mg/L	1	0.01	0.005	12/1/2020 12:10	G

Analysis Desc: Chlorophylls, SM10200H, Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	4.0		mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G

Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.026		mg/L	1	0.010	0.0060	11/24/2020 17:49	T
Nitrate + Nitrite	0.023		mg/L	1	0.020	0.010	11/24/2020 17:49	T

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955008**

Date Received: 11/23/20 13:15 Matrix: Water

Sample ID: **LANDMARK DUP**

Date Collected: 11/23/20 10:30

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:49	T

Lab ID: **F2004955009**

Date Received: 11/23/20 13:15 Matrix: Water

Sample ID: **SWALLOW**

Date Collected: 11/23/20 10:48

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 10:48	F^
Secchi Disc	2		meters	1			11/23/2020 10:48	F^
Total Depth	2.4		meters	1			11/23/2020 10:48	F^

Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49036		umhos/cm	1			11/23/2020 10:48	F^
DO Saturation %	37.6		%	1			11/23/2020 10:48	F^
Dissolved Oxygen	2.76		mg/L	1			11/23/2020 10:48	F^
Salinity	31.97		ppt	1			11/23/2020 10:48	F^
Temperature	25.2		°C	1			11/23/2020 10:48	F^
pH	7.94		SU	1			11/23/2020 10:48	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	110		MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.36		mg/L	1	0.20	0.12	12/9/2020 09:42	T

Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	0.98		NTU	1	0.10	0.10	11/24/2020 10:50	F

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955009** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **SWALLOW** Date Collected: 11/23/20 10:48

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.30	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.032		mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.059		mg/L	1	0.010	0.0060	11/24/2020 17:50	T
Nitrate + Nitrite	0.060		mg/L	1	0.020	0.010	11/24/2020 17:50	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:50	T

Lab ID: **F2004955010** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **WEST WINTERBERRY BRIDGE** Date Collected: 11/23/20 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 11:10	F^
Secchi Disc	1.6		meters	1			11/23/2020 11:10	F^
Total Depth	1.6		meters	1			11/23/2020 11:10	F^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49502		umhos/cm	1			11/23/2020 11:10	F^
DO Saturation %	59.1		%	1			11/23/2020 11:10	F^
Dissolved Oxygen	4.13		mg/L	1			11/23/2020 11:10	F^
Salinity	32.38		ppt	1			11/23/2020 11:10	F^

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955010** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **WEST WINTERBERRY BRIDGE** Date Collected: 11/23/20 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	24.8		°C	1			11/23/2020 11:10	F^
pH	8.21		SU	1			11/23/2020 11:10	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.36		mg/L	1	0.20	0.12	12/9/2020 09:42	T

Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	1.1		NTU	1	0.10	0.10	11/24/2020 10:50	F

Analysis Desc: TKN, E351.2, Water		Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.28	I, J4	mg/L	1	0.50	0.20	12/2/2020 13:51	G

Analysis Desc: Total Phosphorus, E365.3, Analysis		Preparation Method: EPA 365.3 Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.020		mg/L	1	0.01	0.005	12/1/2020 12:10	G

Analysis Desc: Chlorophylls, SM10200H, Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Phaeophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G

Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.078		mg/L	1	0.010	0.0060	11/24/2020 17:51	T
Nitrate + Nitrite	0.074		mg/L	1	0.020	0.010	11/24/2020 17:51	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 17:51	T

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955011** Date Received: 11/23/20 13:15 Matrix: Water
Sample ID: **EAST WINTERBERRY BRIDGE** Date Collected: 11/23/20 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth			Analytical Method: DISRES					
Sample Depth	0.3		meters	1			11/23/2020 11:25	F^
Secchi Disc	2.4		meters	1			11/23/2020 11:25	F^
Total Depth	3		meters	1			11/23/2020 11:25	F^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	50398		umhos/cm	1			11/23/2020 11:25	F^
DO Saturation %	59.9		%	1			11/23/2020 11:25	F^
Dissolved Oxygen	4.2		mg/L	1			11/23/2020 11:25	F^
Salinity	33.05		ppt	1			11/23/2020 11:25	F^
Temperature	24.9		°C	1			11/23/2020 11:25	F^
pH	8.18		SU	1			11/23/2020 11:25	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	10		MPN/100 mL	10	10	10	11/23/2020 15:46	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen, Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.12	U	mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	0.96		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.20	U	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.011		mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	3.2		mg/m3	1	3.0	2.5	12/9/2020 11:51	G

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955011** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **EAST WINTERBERRY BRIDGE** Date Collected: 11/23/20 11:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.034	J4	mg/L	1	0.010	0.0060	11/24/2020 17:58	T
Nitrate + Nitrite	0.042		mg/L	1	0.020	0.010	11/24/2020 17:58	T
Nitrite (as N)	0.0090	I,J4	mg/L	1	0.010	0.0080	11/24/2020 17:58	T

Lab ID: **F2004955012** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **MCILVAINE** Date Collected: 11/23/20 11:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 11:42	F^
Secchi Disc	2.2		meters	1			11/23/2020 11:42	F^
Total Depth	2.2		meters	1			11/23/2020 11:42	F^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	51440		umhos/cm	1			11/23/2020 11:42	F^
DO Saturation %	52.8		%	1			11/23/2020 11:42	F^
Dissolved Oxygen	3.97		mg/L	1			11/23/2020 11:42	F^
Salinity	33.31		ppt	1			11/23/2020 11:42	F^
Temperature	24.7		°C	1			11/23/2020 11:42	F^
pH	8.24		SU	1			11/23/2020 11:42	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10		MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955012** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **MCILVAINE** Date Collected: 11/23/20 11:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.30		mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	1.3		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.26	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.008	I	mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.040		mg/L	1	0.010	0.0060	11/24/2020 18:00	T
Nitrate + Nitrite	0.033		mg/L	1	0.020	0.010	11/24/2020 18:00	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 18:00	T

Lab ID: **F2004955013** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **HOLLYHOCK** Date Collected: 11/23/20 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 12:00	F^
Secchi Disc	1.8		meters	1			11/23/2020 12:00	F^
Total Depth	1.8		meters	1			11/23/2020 12:00	F^

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955013**
Sample ID: **HOLLYHOCK**

Date Received: 11/23/20 13:15 Matrix: Water
Date Collected: 11/23/20 12:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	50437		umhos/cm	1			11/23/2020 12:00	F^
DO Saturation %	51.4		%	1			11/23/2020 12:00	F^
Dissolved Oxygen	3.47		mg/L	1			11/23/2020 12:00	F^
Salinity	33.04		ppt	1			11/23/2020 12:00	F^
Temperature	24.9		°C	1			11/23/2020 12:00	F^
pH	8.13		SU	1			11/23/2020 12:00	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.32		mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	0.67		NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN, E351.2, Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.29	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus, E365.3, Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.020		mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H, Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.033		mg/L	1	0.010	0.0060	11/24/2020 18:01	T
Nitrate + Nitrite	0.029		mg/L	1	0.020	0.010	11/24/2020 18:01	T

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955013** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **HOLLYHOCK** Date Collected: 11/23/20 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 18:01	T

Lab ID: **F2004955014** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **HUMMINGBIRD** Date Collected: 11/23/20 12:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 12:12	F^
Secchi Disc	1.7		meters	1			11/23/2020 12:12	F^
Total Depth	1.7		meters	1			11/23/2020 12:12	F^

Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	47050		umhos/cm	1			11/23/2020 12:12	F^
DO Saturation %	53.5		%	1			11/23/2020 12:12	F^
Dissolved Oxygen	3.6		mg/L	1			11/23/2020 12:12	F^
Salinity	30.56		ppt	1			11/23/2020 12:12	F^
Temperature	25.2		°C	1			11/23/2020 12:12	F^
pH	8.09		SU	1			11/23/2020 12:12	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	201		MPN/100 mL	10	10	10	11/23/2020 15:46	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.48		mg/L	1	0.20	0.12	12/9/2020 09:42	T

Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	0.39		NTU	1	0.10	0.10	11/24/2020 10:50	F

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955014** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **HUMMINGBIRD** Date Collected: 11/23/20 12:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.38	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.025		mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.091		mg/L	1	0.010	0.0060	11/24/2020 18:01	T
Nitrate + Nitrite	0.096		mg/L	1	0.020	0.010	11/24/2020 18:01	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 18:01	T

Lab ID: **F2004955015** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **WINDMILL** Date Collected: 11/23/20 12:23

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Sample Depth		Analytical Method: DISRES						
Sample Depth	0.3		meters	1			11/23/2020 12:23	F^
Secchi Disc	1.6		meters	1			11/23/2020 12:23	F^
Total Depth	2.1		meters	1			11/23/2020 12:23	F^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49001		umhos/cm	1			11/23/2020 12:23	F^
DO Saturation %	57.3		%	1			11/23/2020 12:23	F^
Dissolved Oxygen	3.9		mg/L	1			11/23/2020 12:23	F^
Salinity	32.16		ppt	1			11/23/2020 12:23	F^

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955015**

Date Received: 11/23/20 13:15 Matrix: Water

Sample ID: **WINDMILL**

Date Collected: 11/23/20 12:23

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	24.8		°C	1			11/23/2020 12:23	F^
pH	8.16		SU	1			11/23/2020 12:23	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-
QT Prep,Water Analytical Method: ENTEROLERT/ QUANTI-TRAY

Enterococcus	20		MPN/100 mL	10	10	10	11/23/2020 15:46	F
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WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water Analytical Method: Calculation

Total Nitrogen	0.43		mg/L	1	0.20	0.12	12/9/2020 09:42	T
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Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	0.85		NTU	1	0.10	0.10	11/24/2020 10:50	F
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Analysis Desc: TKN, E351.2, Water Preparation Method: Copper Sulfate Digestion
Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.39	I	mg/L	1	0.50	0.20	12/2/2020 13:51	G
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Analysis Desc: Total Phosphorus, E365.3, Analysis Preparation Method: EPA 365.3
Analytical Method: EPA 365.3

Total Phosphorus (as P)	0.016		mg/L	1	0.01	0.005	12/1/2020 12:10	G
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Analysis Desc: Chlorophylls, SM10200H, Water Analytical Method: SM 10200 H

Corrected Chlorophyll A	4.0		mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Phaeophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G

Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F Analytical Method: SM 4500NO3-F (Low Level)

Nitrate (as N)	0.040		mg/L	1	0.010	0.0060	11/24/2020 18:02	T
Nitrate + Nitrite	0.042		mg/L	1	0.020	0.010	11/24/2020 18:02	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 18:02	T

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ANALYTICAL RESULTS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID: **F2004955016** Date Received: 11/23/20 13:15 Matrix: Water
 Sample ID: **EQUIPMENT BLANK** Date Collected: 11/23/20 12:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	1	U	MPN/100 mL	1	1	1	11/23/2020 15:46	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.12	U	mg/L	1	0.20	0.12	12/9/2020 09:42	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	0.10	U	NTU	1	0.10	0.10	11/24/2020 10:50	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.20	U	mg/L	1	0.50	0.20	12/2/2020 13:51	G
Analysis Desc: Total Phosphorus,E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.005	U	mg/L	1	0.01	0.005	12/1/2020 12:10	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	12/9/2020 11:51	G
Analysis Desc: Nitrate+Nitrite Low- Level,SM4500NO3F			Analytical Method: SM 4500NO3-F (Low Level)					
Nitrate (as N)	0.0060	U	mg/L	1	0.010	0.0060	11/24/2020 18:03	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	11/24/2020 18:03	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	11/24/2020 18:03	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J4 Estimated Result
- [1] Chlorophyll A SAMPLES 1-16 FILTERED: 11/24/2020 11:30

PROJECT ACCEPTABLE LIMITS

- < 0.3 Total Nitrogen
- < 0.46 Total Phosphorus
- < 4.9 Chlorophyll A
- < 130 Enterococcus
- > 42 DO Saturation %
- 6.5-8.5 pH

LAB QUALIFIERS

- F DOH Certification #E84492(AEL-F)(FL NELAC Certification)
- F^ Not Certified
- G DOH Certification #E82001(AEL-G)(FL NELAC Certification)
- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: F2004955 MARCO ISLAND WATER QUALITY

QC Batch: MICf/1460 Analysis Method: ENTEROLERT/ QUANTI-TRAY
QC Batch Method: ENTEROLERT/ QUANTI-TRAY Prepared:
Associated Lab Samples: F2004955001, F2004955002, F2004955003, F2004955004, F2004955005, F2004955006, F2004955007,

METHOD BLANK: 3693765

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Microbiology			
Enterococcus	MPN/100	1	1 U

QC Batch: WCAf/7806 Analysis Method: SM 4500NO3-F (Low Level)
QC Batch Method: SM 4500NO3-F (Low Level) Prepared:
Associated Lab Samples: F2004955001, F2004955002, F2004955003, F2004955004, F2004955005, F2004955006, F2004955007,

METHOD BLANK: 3695129

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrate (as N)	mg/L	0.0060	0.0060 U
Nitrate + Nitrite	mg/L	0.010	0.010 U
Nitrite (as N)	mg/L	0.0080	0.0080 U

QC Batch: WCAf/7807 Analysis Method: SM 4500NO3-F (Low Level)
QC Batch Method: SM 4500NO3-F (Low Level) Prepared:
Associated Lab Samples: F2004955011, F2004955012, F2004955013, F2004955014, F2004955015, F2004955016

METHOD BLANK: 3695133

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrate (as N)	mg/L	0.0060	0.0060 U
Nitrate + Nitrite	mg/L	0.010	0.010 U
Nitrite (as N)	mg/L	0.0080	0.0080 U

QC Batch: WCAf/1775 Analysis Method: EPA 180.1
QC Batch Method: EPA 180.1 Prepared:
Associated Lab Samples: F2004955001, F2004955002, F2004955003, F2004955004, F2004955005, F2004955006, F2004955007,

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QUALITY CONTROL DATA

Workorder: F2004955 MARCO ISLAND WATER QUALITY

METHOD BLANK: 3697382

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Turbidity	NTU	0.10	0.10 U

QC Batch: WCAg/4977 Analysis Method: EPA 365.3
QC Batch Method: EPA 365.3 Prepared: 12/01/2020 11:50
Associated Lab Samples: F2004955001, F2004955002, F2004955003

METHOD BLANK: 3698780

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Phosphorus (as P)	mg/L	0.005	0.005 U

QC Batch: WCAg/4979 Analysis Method: EPA 365.3
QC Batch Method: EPA 365.3 Prepared: 12/01/2020 12:00
Associated Lab Samples: F2004955004, F2004955005, F2004955006, F2004955007, F2004955008, F2004955009, F2004955010,

METHOD BLANK: 3698817

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Phosphorus (as P)	mg/L	0.005	0.005 U

QC Batch: WCAg/4988 Analysis Method: EPA 351.2
QC Batch Method: Copper Sulfate Digestion Prepared: 12/01/2020 15:30
Associated Lab Samples: F2004955001, F2004955002, F2004955003, F2004955004, F2004955005, F2004955006, F2004955007,

METHOD BLANK: 3699907

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Kjeldahl Nitrogen	mg/L	0.20	0.20 U

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QUALITY CONTROL DATA

Workorder: F2004955 MARCO ISLAND WATER QUALITY

QC Batch: WCAg/4989 Analysis Method: EPA 351.2
 QC Batch Method: Copper Sulfate Digestion Prepared: 12/01/2020 15:30
 Associated Lab Samples: F2004955011, F2004955012, F2004955013, F2004955014, F2004955015, F2004955016

METHOD BLANK: 3699953

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Kjeldahl Nitrogen	mg/L	0.20	0.20 U

QC Batch: WCAg/5085 Analysis Method: SM 10200 H
 QC Batch Method: SM 10200 H Prepared:
 Associated Lab Samples: F2004955001, F2004955002, F2004955003, F2004955004, F2004955005, F2004955006, F2004955007,

METHOD BLANK: 3707992

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Pheophytin A	mg/m3	2.5	2.5 U

QUALITY CONTROL DATA QUALIFIERS

Workorder: F2004955 MARCO ISLAND WATER QUALITY

QUALITY CONTROL PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2004955001	BARFIELD BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955002	OLDE MARCO			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955003	JH PARK			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955004	KENDELL			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955005	COLLIER BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955006	HC CENTER			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955007	LANDMARK			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955008	LANDMARK DUP			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955009	SWALLOW			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955010	WEST WINTERBERRY BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955011	EAST WINTERBERRY BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955012	MCILVAINE			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955013	HOLLYHOCK			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955014	HUMMINGBIRD			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955015	WINDMILL			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955016	EQUIPMENT BLANK			ENTEROLERT/ QUANTI-TRAY	MICi/1460
F2004955001	BARFIELD BRIDGE			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955002	OLDE MARCO			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955003	JH PARK			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955004	KENDELL			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955005	COLLIER BRIDGE			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955006	HC CENTER			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955007	LANDMARK			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955008	LANDMARK DUP			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955009	SWALLOW			SM 4500NO3-F (Low Level)	WCAt/7806
F2004955010	WEST WINTERBERRY BRIDGE			SM 4500NO3-F (Low Level)	WCAt/7806

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2004955011	EAST WINTERBERRY BRIDGE			SM 4500NO3-F (Low Level)	WCAf/7807
F2004955012	MCILVAINE			SM 4500NO3-F (Low Level)	WCAf/7807
F2004955013	HOLLYHOCK			SM 4500NO3-F (Low Level)	WCAf/7807
F2004955014	HUMMINGBIRD			SM 4500NO3-F (Low Level)	WCAf/7807
F2004955015	WINDMILL			SM 4500NO3-F (Low Level)	WCAf/7807
F2004955016	EQUIPMENT BLANK			SM 4500NO3-F (Low Level)	WCAf/7807
F2004955001	BARFIELD BRIDGE			EPA 180.1	WCAf/1775
F2004955002	OLDE MARCO			EPA 180.1	WCAf/1775
F2004955003	JH PARK			EPA 180.1	WCAf/1775
F2004955004	KENDELL			EPA 180.1	WCAf/1775
F2004955005	COLLIER BRIDGE			EPA 180.1	WCAf/1775
F2004955006	HC CENTER			EPA 180.1	WCAf/1775
F2004955007	LANDMARK			EPA 180.1	WCAf/1775
F2004955008	LANDMARK DUP			EPA 180.1	WCAf/1775
F2004955009	SWALLOW			EPA 180.1	WCAf/1775
F2004955010	WEST WINTERBERRY BRIDGE			EPA 180.1	WCAf/1775
F2004955011	EAST WINTERBERRY BRIDGE			EPA 180.1	WCAf/1775
F2004955012	MCILVAINE			EPA 180.1	WCAf/1775
F2004955013	HOLLYHOCK			EPA 180.1	WCAf/1775
F2004955014	HUMMINGBIRD			EPA 180.1	WCAf/1775
F2004955015	WINDMILL			EPA 180.1	WCAf/1775
F2004955016	EQUIPMENT BLANK			EPA 180.1	WCAf/1775
F2004955001	BARFIELD BRIDGE	EPA 365.3	WCAg/4977	EPA 365.3	WCAg/4978
F2004955002	OLDE MARCO	EPA 365.3	WCAg/4977	EPA 365.3	WCAg/4978
F2004955003	JH PARK	EPA 365.3	WCAg/4977	EPA 365.3	WCAg/4978
F2004955004	KENDELL	EPA 365.3	WCAg/4979	EPA 365.3	WCAg/4980
F2004955005	COLLIER BRIDGE	EPA 365.3	WCAg/4979	EPA 365.3	WCAg/4980
F2004955006	HC CENTER	EPA 365.3	WCAg/4979	EPA 365.3	WCAg/4980

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2004955007	LANDMARK	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955008	LANDMARK DUP	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955009	SWALLOW	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955010	WEST WINTERBERRY BRIDGE	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955011	EAST WINTERBERRY BRIDGE	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955012	MCILVAINE	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955013	HOLLYHOCK	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955014	HUMMINGBIRD	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955015	WINDMILL	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955016	EQUIPMENT BLANK	EPA 365.3	WCAG/4979	EPA 365.3	WCAG/4980
F2004955001	BARFIELD BRIDGE	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955002	OLDE MARCO	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955003	JH PARK	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955004	KENDELL	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955005	COLLIER BRIDGE	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955006	HC CENTER	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955007	LANDMARK	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955008	LANDMARK DUP	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955009	SWALLOW	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955010	WEST WINTERBERRY BRIDGE	Copper Sulfate Digestion	WCAG/4988	EPA 351.2	WCAG/5005
F2004955011	EAST WINTERBERRY BRIDGE	Copper Sulfate Digestion	WCAG/4989	EPA 351.2	WCAG/5007
F2004955012	MCILVAINE	Copper Sulfate Digestion	WCAG/4989	EPA 351.2	WCAG/5007
F2004955013	HOLLYHOCK	Copper Sulfate Digestion	WCAG/4989	EPA 351.2	WCAG/5007
F2004955014	HUMMINGBIRD	Copper Sulfate Digestion	WCAG/4989	EPA 351.2	WCAG/5007
F2004955015	WINDMILL	Copper Sulfate Digestion	WCAG/4989	EPA 351.2	WCAG/5007
F2004955016	EQUIPMENT BLANK	Copper Sulfate Digestion	WCAG/4989	EPA 351.2	WCAG/5007
F2004955001	BARFIELD BRIDGE			SM 10200 H	WCAG/5085
F2004955002	OLDE MARCO			SM 10200 H	WCAG/5085
F2004955003	JH PARK			SM 10200 H	WCAG/5085

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2004955004	KENDELL			SM 10200 H	WCAg/5085
F2004955005	COLLIER BRIDGE			SM 10200 H	WCAg/5085
F2004955006	HC CENTER			SM 10200 H	WCAg/5085
F2004955007	LANDMARK			SM 10200 H	WCAg/5085
F2004955008	LANDMARK DUP			SM 10200 H	WCAg/5085
F2004955009	SWALLOW			SM 10200 H	WCAg/5085
F2004955010	WEST WINTERBERRY BRIDGE			SM 10200 H	WCAg/5085
F2004955011	EAST WINTERBERRY BRIDGE			SM 10200 H	WCAg/5085
F2004955012	MCILVAINE			SM 10200 H	WCAg/5085
F2004955013	HOLLYHOCK			SM 10200 H	WCAg/5085
F2004955014	HUMMINGBIRD			SM 10200 H	WCAg/5085
F2004955015	WINDMILL			SM 10200 H	WCAg/5085
F2004955016	EQUIPMENT BLANK			SM 10200 H	WCAg/5085
F2004955001	BARFIELD BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2004955001	BARFIELD BRIDGE	DISRES	FLDf/	DISRES	FLDf/
F2004955001	BARFIELD BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955002	OLDE MARCO	Calculation	CLCt/	Calculation	CLCt/
F2004955002	OLDE MARCO	DISRES	FLDf/	DISRES	FLDf/
F2004955002	OLDE MARCO	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955003	JH PARK	Calculation	CLCt/	Calculation	CLCt/
F2004955003	JH PARK	DISRES	FLDf/	DISRES	FLDf/
F2004955003	JH PARK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955004	KENDELL	Calculation	CLCt/	Calculation	CLCt/
F2004955004	KENDELL	DISRES	FLDf/	DISRES	FLDf/
F2004955004	KENDELL	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955005	COLLIER BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2004955005	COLLIER BRIDGE	DISRES	FLDf/	DISRES	FLDf/
F2004955005	COLLIER BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955006	HC CENTER	Calculation	CLCt/	Calculation	CLCt/
F2004955006	HC CENTER	DISRES	FLDf/	DISRES	FLDf/
F2004955006	HC CENTER	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955007	LANDMARK	Calculation	CLCt/	Calculation	CLCt/

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2004955 MARCO ISLAND WATER QUALITY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2004955007	LANDMARK	DISRES	FLDf/	DISRES	FLDf/
F2004955007	LANDMARK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955008	LANDMARK DUP	Calculation	CLCt/	Calculation	CLCt/
F2004955008	LANDMARK DUP	DISRES	FLDf/	DISRES	FLDf/
F2004955008	LANDMARK DUP	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955009	SWALLOW	Calculation	CLCt/	Calculation	CLCt/
F2004955009	SWALLOW	DISRES	FLDf/	DISRES	FLDf/
F2004955009	SWALLOW	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955010	WEST WINTERBERRY BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2004955010	WEST WINTERBERRY BRIDGE	DISRES	FLDf/	DISRES	FLDf/
F2004955010	WEST WINTERBERRY BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955011	EAST WINTERBERRY BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2004955011	EAST WINTERBERRY BRIDGE	DISRES	FLDf/	DISRES	FLDf/
F2004955011	EAST WINTERBERRY BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955012	MCILVAINE	Calculation	CLCt/	Calculation	CLCt/
F2004955012	MCILVAINE	DISRES	FLDf/	DISRES	FLDf/
F2004955012	MCILVAINE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955013	HOLLYHOCK	Calculation	CLCt/	Calculation	CLCt/
F2004955013	HOLLYHOCK	DISRES	FLDf/	DISRES	FLDf/
F2004955013	HOLLYHOCK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955014	HUMMINGBIRD	Calculation	CLCt/	Calculation	CLCt/
F2004955014	HUMMINGBIRD	DISRES	FLDf/	DISRES	FLDf/
F2004955014	HUMMINGBIRD	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955015	WINDMILL	Calculation	CLCt/	Calculation	CLCt/
F2004955015	WINDMILL	DISRES	FLDf/	DISRES	FLDf/
F2004955015	WINDMILL	Field Measurements	FLDf/	Field Measurements	FLDf/
F2004955016	EQUIPMENT BLANK	Calculation	CLCt/	Calculation	CLCt/

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Queue: WCAt

Batch Number: 7806

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SM 4500NO3-F (Low Level)

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of Nitrate & Nitrite for F2004955001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Relative Percent Difference (RPD) were acceptable, which indicates the analytical batch was in control. The sample has been qualified for matrix interference. No further corrective action is required.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:



Queue: WCAt

Batch Number: 7807

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SM 4500NO3-F (Low Level)

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of Nitrate & Nitrite for F2004955011 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Relative Percent Difference (RPD) were acceptable, which indicates the analytical batch was in control. The sample has been qualified for matrix interference. No further corrective action is required.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:



Queue: WCAg

Batch Number: 5005

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 351.2

Preparation: Copper Sulfate Digestion

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recoveries of TKN for J2016203002 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The affected sample is qualified to indicate matrix interference.

The matrix spike (MS) recoveries of TKN for F2004955010 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Dilution: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:



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- Altamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1694 • Lat
- Fort Myers: 13100 Westlakes Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84
- Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
- Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.8274 • Lab ID: E81

Page _____ of _____
 FL 32808 • 352.377.2349 • Lab ID: E82001
 FL 33025 • 954.889.2288 • Lab ID: E82535
 FL 33519 • 813.630.9616 • Lab ID: E84589



* F 2 0 0 4 9 5 5 *

Client Name: City of Marco Island
 Address: 50 Bald Eagle Dr.
 Marco Island, FL 34145
 Phone: 239-300-1462
 FAX:
 Contact: Tonia Selmeski
 Special Instructions:
 Turn Around Time: Standard Rush
 AEL Profile #:
 Project Name: Marco Island Water Quality
 Project Number:
 PO Number:
 FDEP Facility No:
 FDEP Facility Addr:
 Special Instructions:

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED				BOTTLE SIZE & TYPE
			DATE	TIME			NO2 / NO3 / TURB	TKN / TP / TN	CHLOR - A	125 mL Plastic	
site 1	Barfield Bridge	Grab	0850	11/23/2019	SW	4	X	X	X	X	250 mL Plastic
site 6	Olde Marco	Grab	0903	11/23/2019	SW	4	X	X	X	X	250 mL Plastic
site 2	JH Park	Grab	11/23/2019	0920	SW	4	X	X	X	X	250 mL Plastic
site 5	Kendell	Grab	0937		SW	4	X	X	X	X	250 mL Plastic
site 3	Collier Bridge	Grab	0954		SW	4	X	X	X	X	250 mL Plastic
site 4	HC Center	Grab	1010		SW	4	X	X	X	X	250 mL Plastic
site 14	Landmark	Grab	1024		SW	4	X	X	X	X	250 mL Plastic
site 14D	Landmark Dup.	Grab	1030		SW	4	X	X	X	X	250 mL Plastic
site 13	Swallow	Grab	1048		SW	4	X	X	X	X	250 mL Plastic
site 12	West Winterberry Bridge	Grab	1110		SW	4	X	X	X	X	250 mL Plastic

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)
 Received on Ice Yes No Temp taken from sample Temp from blank Where required, pH checked
 DCN: AD-D051web Form last revised 08/07/2019

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	11/20/19	1335	<i>[Signature]</i>	11/20/19	1335

Temp. when received (observed) 5.6 °C Temp. when received (corrected) 5.6 °C
 J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A
FOR DRINKING WATER USE:
 (When PWS information not otherwise supplied) PWS ID: _____
 Contact Person: _____
 Supplier of Water: _____
 Site-Address: _____



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- Altamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: ES0376
- Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: EB4482
- Jacksonville: 6651 Southpoint Pkwy., FL 32216 • 904.363.9369 • Lab ID: EB2574
- Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 900.219.6274 • Lab ID: EB11095

F2004955

- Gainesville: 4865 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: EB2001
- Miramar: 10200 USA Today Way, FL 33026 • 954.890.2288 • Lab ID: EB2535
- Tampa: 4510 Phycross Palm Ave., FL 33619 • 813.630.9516 • Lab ID: EB4599

Client Name: City of Marco Island		Project Name: Marco Island Water Quality			
Address: 50 Bald Eagle Dr.		Project Number:			
Phone: 239-300-1462		PO Number:			
FAX:		FDEP Facility No:			
Contact: Tonia Selmeski		FDEP Facility Addr:			
Sampled By:		Special Instructions:			
Turn Around Time: Standard		Rush			
AEL Profile #:		ADaPT			
SAMPLE ID	SAMPLE DESCRIPTION	EQUIS		Other	
		Grab Comp	SAMPLING DATE	MATRIX	NO. COUNT
site 11	East Winterberry Bridge	Grab	11/29/2020 1725	SW	4
site 10	Mcilvaine	Grab	11/29/2020 1742	SW	4
site 8	Hollyhock	Grab	12/02 1200	SW	4
site 9	Hummingbrid	Grab	12/12 1212	SW	4
site 7	Windmill	Grab	12/23 1223	SW	4
EQB	Equipment Blank	Grab	12/25 1235	SW	4

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge	Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)
Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Temp taken from sample <input type="checkbox"/> Temp from blank <input type="checkbox"/> Where required, pH checked	Temp. when received (observed) _____ °C Temp. when received (corrected) _____ °C

DCN: AD-D051web Form last revised 08/07/2019 Device used for measuring Temp by unique identifier (circle IR temp gun used) J-9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

Relinquished by: <i>[Signature]</i>	Date: 11/29/2020	Time: 1335
Received by: <i>[Signature]</i>	Date: 11/29/2020	Time: 1335

ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	250 mL Plastic	250 mL Plastic	TKN / TP / TN	250 mL Plastic	1L Amb Plastic	125 mL Plastic	ENTERO	NaThio	LABORATORY I.D. NUMBER
<input checked="" type="checkbox"/>	Ice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		011
<input checked="" type="checkbox"/>	Ice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		012
<input checked="" type="checkbox"/>	Ice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		013
<input checked="" type="checkbox"/>	Ice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		014
<input checked="" type="checkbox"/>	Ice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		015
<input checked="" type="checkbox"/>	Ice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		016

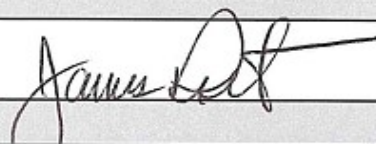
FOR DRINKING WATER USE:
 (When PWS information not otherwise supplied) PWS ID: _____
 Contact Person: _____
 Supplier of Water: _____
 Site-Address: _____

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
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Water Sample Parameters								
SAMPLE LOCATION	BARFIELD BRIDGE	BARFIELD BRIDGE	OLDE MARCO	OLDE MARCO	JH PARK	JH PARK	KENDELL	KENDELL
SAMPLE TIME	0850	0854	0903	0907	0920	0924	0937	0942
SAMPLE DEPTH	0.30m top	1.70m	0.30m top	1.80m	0.30m top	2.80m	0.30m top	1.20m
TOTAL DEPTH	2.00m	2.00m	2.10m	2.10m	3.10m	3.10m	1.50m	1.50m
TEMP /C	24.0	24.0	24.2	24.2	24.5	24.4	24.8	24.9
D.O. mg / L	4.80	4.19	3.75	3.66	4.44	4.10	3.60	3.52
D.O. % sat.	66.8	61.7	55.0	53.0	66.3	63.2	53.1	48.2
CONDUCTIVITY(umhos)	51,830	52,016	51,837	51,960	47,761	48,835	47,333	47,632
SALINITY ppt.	34.12	34.24	34.15	34.20	31.10	31.90	30.80	31.00
pH su.	8.10	8.16	8.21	8.22	8.14	8.16	8.11	8.10
SECCHI	1.60m	1.60m	1.80m	1.80m	2.90m	2.90m	1.50m	1.50m

FIELD COMMENTS:	OUTGOING TIDE LOW FLOW	OUTGOING TIDE LOW FLOW	OUTGOING TIDE HIGH FLOW	OUTGOING TIDE LOW FLOW
WEATHER :	FOGGY 73 DEG F	PARTLY SUNNY 74 DEG F	SUNNY 76 DEG F	SUNNY 78 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X

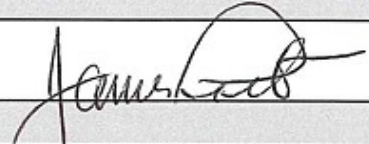
Authentication			
SAMPLED BY: (PRINT) /	JAMES PEET AEL	Sampler's Signature	
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			Date 11/23/20

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
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Water Sample Parameters								
SAMPLE LOCATION	COLLIER BRIDGE	COLLIER BRIDGE	HC CENTER	HC CENTER	LANDMARK	LANDMARK	LANDMARK DUP	LANDMARK DUP
SAMPLE TIME	0954	0958	1010	1014	1024	1027	1030	1034
SAMPLE DEPTH	0.30m top	2.70m	0.30m top	1.50m	0.30m top	2.20m	0.30m top	2.20m
TOTAL DEPTH	3.00m	3.00m	1.80m	1.80m	2.50m	2.50m	2.50m	2.50m
TEMP /C	24.9	25.1	24.7	24.6	25.2	25.4	25.2	25.1
D.O. mg / L	3.67	3.59	4.48	3.99	3.68	3.20	3.38	3.22
D.O. % sat.	52.2	48.0	60.5	55.7	54.6	39.6	54.1	36.2
CONDUCTIVITY(umhos)	47,325	47,844	47,190	47,312	49,983	50,420	49,998	50,429
SALINITY ppt.	30.78	31.53	30.70	30.78	32.72	33.04	32.76	33.05
pH su.	8.12	8.09	8.16	8.18	8.20	8.07	8.11	8.05
SECCHI	2.80m	2.80m	1.80m	1.80m	2.50m	2.50m	2.50m	2.50m

FIELD COMMENTS:	OUTGOING TIDE LOW FLOW	OUTGOING TIDE LOW FLOW	OUTGOING TIDE LOW FLOW	OUTGOING TIDE LOW FLOW
WEATHER :	SUNNY 79 DEG F	SUNNY 79 DEG F	SUNNY 80 DEG F	SUNNY 80 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X

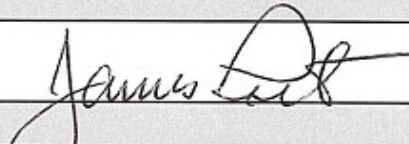
Authentication			
SAMPLED BY: (PRINT) /	JAMES PEET AEL	Sampler's Signature	
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			Date 11/23/20

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
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Water Sample Parameters								
SAMPLE LOCATION	SWALLOW	SWALLOW	WEST WB BRIDGE	WEST WB BRIDGE	EAST WB BRIDGE	EAST WB BRIDGE	MCILVAINE	MCILVAINE
SAMPLE TIME	1048	1051	1110	1113	1125	1128	1142	1145
SAMPLE DEPTH	0.30m top	2.10m	0.30m top	1.30m	0.30m top	2.70m	0.30m top	1.90m
TOTAL DEPTH	2.40m	2.40m	1.60m	1.60m	3.00m	3.00m	2.20m	2.20m
TEMP /C	25.2	24.9	24.8	24.8	24.9	24.5	24.7	24.3
D.O. mg / L	2.76	2.61	4.13	4.27	4.20	3.93	3.97	3.47
D.O. % sat.	37.6	37.3	59.1	59.7	59.9	55.2	52.8	53.3
CONDUCTIVITY(umhos)	49,036	51,698	49,502	49,542	50,398	51,797	51,440	52,159
SALINITY ppt.	31.97	33.96	32.38	32.40	33.05	30.06	33.31	34.36
pH su.	7.94	8.15	8.21	8.22	8.18	8.22	8.24	8.21
SECCHI	2.00m	2.00m	1.60m	1.60m	2.40m	2.40m	2.20m	2.20m

FIELD COMMENTS:	OUTGOING TIDE NO FLOW	OUTGOING TIDE LOW FLOW	OUTGOING TIDE HIGH FLOW	OUTGOING TIDE LOW FLOW
WEATHER :	SUNNY 84 DEG F	SUNNY 84 DEG F	SUNNY 84 DEG F	SUNNY 84 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X

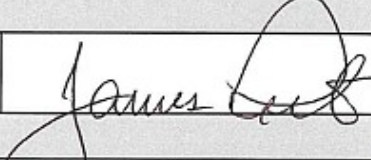
Authentication			
SAMPLED BY: (PRINT) /	JAMES PEET AEL	Sampler's Signature	Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			11/23/20

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
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Water Sample Parameters							
SAMPLE LOCATION	HOLLY HOCK	HOLLY HOCK	HUMMING BIRD	HUMMING BIRD	WINDMILL	WINDMILL	EQUIP BLANK
SAMPLE TIME	1200	1204	1212	1215	1223	1226	1235
SAMPLE DEPTH	0.30m top	1.50m	0.30m top	1.40m	0.30m top	1.80m	NA
TOTAL DEPTH	1.80m	1.80m	1.70m	1.70m	2.10m	2.10m	NA
TEMP /C	24.9	24.7	25.2	25.1	24.8	24.6	NA
D.O. mg / L	3.47	4.22	3.60	3.51	3.90	4.06	NA
D.O. % sat.	51.4	60.2	53.5	50.4	57.3	56.9	NA
CONDUCTIVITY(umhos)	50,437	51,175	47,050	48,877	49,001	50,307	NA
SALINITY ppt.	33.04	33.60	30.56	31.95	32.16	33.09	NA
pH su.	8.13	8.24	8.09	8.16	8.16	8.19	NA
SECCHI	1.80m	1.80m	1.70m	1.70m	1.60m	1.60m	NA

FIELD COMMENTS:	OUTGOING TIDE MED FLOW	OUTGOING TIDE NO FLOW	OUTGOING TIDE LOW FLOW	NA
WEATHER :	SUNNY 84 DEG F	SUNNY 84 DEG F	SUNNY 84 DEG F	SUNNY 84 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X	VAN DORN F3X

Authentication			
SAMPLED BY: (PRINT) /	JAMES PEET AEL	Sampler's Signature	Date
AFFILIATION:// ADVANCED ENVIRONMENTAL LABORATORIES			11/23/20

ADVANCED ENVIROMENTAL LABORATORIES INC

FIELD YSI MULTI-METER & HACH 2100Q

DAILY CCV FOR FIELD METERS

YSI - METER ID :	F4N	NA	
YSI - PROBE ID :	F4N-1		

PRE WORK DAY CHECK	DATE:	11/23/2020	TIME:	7:11
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PH 7 BUFFER VALUE :	7.00	+ / - .2 PH UNITS	READING:	7.06
PH 7 BUFFER ID :	FR1-23E1	pH 7= -60mV to +60mV	mV READING:	
COND. STAND. VALUE:	1412	+ / - 5% 1341 TO 1483	READING:	1398
COND. STAND. ID:	3F2006-05			

pH 4 should be at least 165 mV more positive than pH 7 , pH 10 should be at least 165 mV more negative than pH 7

DO TEMP.FROM METER :			READING:	19.6
DO MG/L CHART:			READING:	9.14
DO MG/L FROM METER :			READING:	8.82
DO % READING FROM METER:			READING:	94.3

TURBIDITY STD: ID :	10NTU	RANGE (9 - 11)	READING:	NA
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C.C.V. CHECK DONE BEFORE FIELD USE BY : 

POST WORK DAY CHECK	DATE:	11/23/2020	TIME:	16:07
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PH 7 BUFFER VALUE :	7.00	+ / - .2 PH UNITS	READING:	7.03
PH 7 BUFFER ID :	FR1-23E1	pH 7= -60mV to +60mV	mV READING:	
COND. STAND. VALUE:	1412	+ / - 5% 1341 TO 1483	READING:	1406
COND. STAND. ID:	3F2006-05			

pH 4 should be at least 165 mV more positive than pH 7 , pH 10 should be at least 165 mV more negative than pH 7

DO TEMP.FROM METER :			READING:	19.1
DO MG/L CHART:			READING:	9.23
DO MG/L FROM METER :			READING:	8.7
DO % READING FROM METER:			READING:	93.9

TURBIDITY STD: ID :	10NTU	RANGE (9 - 11)	READING:	NA
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C.C.V. CHECK DONE AFTER FIELD USE BY : 

DCN:GEN-D051m
Eff 10/25/16