

October 13, 2021

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

RE: Workorder: F2103983 MARCO

Dear Jason Tomassetti:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, September 16, 2021. 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: F2103983 MARCO

Lab ID	Sample ID	Matrix	Date Collected	Date Received
F2103983001	BARFIELD_BRIDGE	Water	9/16/2021 08:40	9/16/2021 13:51
F2103983002	OLDE_MARCO	Water	9/16/2021 09:01	9/16/2021 13:51
F2103983003	JH_PARK	Water	9/16/2021 09:14	9/16/2021 13:51
F2103983004	KENDALL	Water	9/16/2021 09:26	9/16/2021 13:51
F2103983005	COLLIER_BRIDGE	Water	9/16/2021 09:34	9/16/2021 13:51
F2103983006	LANDMARK	Water	9/16/2021 09:52	9/16/2021 13:51
F2103983007	LANDMARK_DUP	Water	9/16/2021 09:58	9/16/2021 13:51
F2103983008	HC_CENTER	Water	9/16/2021 10:09	9/16/2021 13:51
F2103983009	SWALLOW	Water	9/16/2021 10:27	9/16/2021 13:51
F2103983010	W_WINTERBERRY_BRIDGE	Water	9/16/2021 10:42	9/16/2021 13:51
F2103983011	E_WINTERBERRY_BRIDGE	Water	9/16/2021 10:57	9/16/2021 13:51
F2103983012	MCILVAINE	Water	9/16/2021 11:09	9/16/2021 13:51
F2103983013	HUMMINGBIRD	Water	9/16/2021 11:26	9/16/2021 13:51
F2103983014	HOLLYHOCK	Water	9/16/2021 11:39	9/16/2021 13:51
F2103983015	WINDMILL	Water	9/16/2021 11:53	9/16/2021 13:51
F2103983016	EQUIPMENT_BLANK	Water	9/16/2021 12:00	9/16/2021 13:51

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983001** Date Received: 09/16/21 13:51 Matrix: Water
Sample ID: **BARFIELD_BRIDGE** Date Collected: 09/16/21 08:40

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			9/16/2021 08:40	X^
Secchi Disc	3.5		meters	1			9/16/2021 08:40	X^
Total Depth	3.5		meters	1			9/16/2021 08:40	X^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	53446		umhos/cm	1			9/16/2021 08:40	F^
DO Saturation %	84.5		%	1			9/16/2021 08:40	F^
Dissolved Oxygen	5.39		mg/L	1			9/16/2021 08:40	F^
Salinity	34.73		ppt	1			9/16/2021 08:40	F^
Temperature	29.9		°C	1			9/16/2021 08:40	F^
pH	7.98		SU	1			9/16/2021 08:40	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	10	U	MPN/100 mL	10	10	10	9/16/2021 16:26	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.299		mg/L	1	0.20	0.12	9/30/2021 08:52	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	2.7		NTU	1	0.10	0.10	9/16/2021 18:35	F
Analysis Desc: TKN,E351.2,Water			Preparation Method: Copper Sulfate Digestion					
			Analytical Method: EPA 351.2					
Total Kjeldahl Nitrogen	0.281	I	mg/L	1	0.50	0.20	9/24/2021 10:21	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	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	5.6	1	mg/m3	1	3.0	2.5	9/22/2021 11:30	G

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983001** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **BARFIELD_BRIDGE** Date Collected: 09/16/21 08:40

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	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.012		mg/L	1	0.010	0.0060	9/17/2021 12:48	T
Nitrate + Nitrite	0.018	I	mg/L	1	0.020	0.010	9/17/2021 12:48	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:48	T

Lab ID: **F2103983002** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **OLDE_MARCO** Date Collected: 09/16/21 09:01

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			9/16/2021 09:01	X^
Secchi Disc	3		meters	1			9/16/2021 09:01	X^
Total Depth	3		meters	1			9/16/2021 09:01	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	52238		umhos/cm	1			9/16/2021 09:01	F^
DO Saturation %	67.1		%	1			9/16/2021 09:01	F^
Dissolved Oxygen	4.18		mg/L	1			9/16/2021 09:01	F^
Salinity	34.28		ppt	1			9/16/2021 09:01	F^
Temperature	29.7		°C	1			9/16/2021 09:01	F^
pH	8.03		SU	1			9/16/2021 09:01	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10		MPN/100 mL	10	10	10	9/16/2021 16:26	F

WET CHEMISTRY

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

Workorder: F2103983 MARCO

Lab ID: **F2103983002** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **OLDE_MARCO** Date Collected: 09/16/21 09:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.270		mg/L	1	0.20	0.12	9/30/2021 08:52	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	4.2		NTU	1	0.10	0.10	9/16/2021 18:35	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.258	I,J4	mg/L	1	0.50	0.20	9/24/2021 10:21	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	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.010		mg/L	1	0.010	0.0060	9/17/2021 12:51	T
Nitrate + Nitrite	0.012	I	mg/L	1	0.020	0.010	9/17/2021 12:51	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:51	T

Lab ID: **F2103983003** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **JH_PARK** Date Collected: 09/16/21 09:14

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			9/16/2021 09:14	X^
Secchi Disc	4		meters	1			9/16/2021 09:14	X^
Total Depth	4		meters	1			9/16/2021 09:14	X^

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983003**

Date Received: 09/16/21 13:51 Matrix: Water

Sample ID: **JH_PARK**

Date Collected: 09/16/21 09:14

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	45422		umhos/cm	1			9/16/2021 09:14	F^
DO Saturation %	83.3		%	1			9/16/2021 09:14	F^
Dissolved Oxygen	5.33		mg/L	1			9/16/2021 09:14	F^
Salinity	30.28		ppt	1			9/16/2021 09:14	F^
Temperature	30.1		°C	1			9/16/2021 09:14	F^
pH	8.06		SU	1			9/16/2021 09:14	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	20		MPN/100 mL	10	10	10	9/16/2021 16:26	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation						
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Total Nitrogen	0.403		mg/L	1	0.20	0.12	9/30/2021 08:52	T
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Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
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Turbidity	2.0		NTU	1			9/16/2021 18:35	F
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Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						

Total Kjeldahl Nitrogen	0.384	I	mg/L	1	0.50	0.20	9/24/2021 10:21	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)	0.005	U	mg/L	1	0.01	0.005	9/23/2021 11:27	G
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Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
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Corrected Chlorophyll A	8.0		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
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Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
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Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
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Nitrate (as N)	0.017		mg/L	1	0.010	0.0060	9/17/2021 12:51	T
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Nitrate + Nitrite	0.019	I	mg/L	1	0.020	0.010	9/17/2021 12:51	T
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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983003** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **JH_PARK** Date Collected: 09/16/21 09:14

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	9/17/2021 12:51	T

Lab ID: **F2103983004** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **KENDALL** Date Collected: 09/16/21 09:26

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			9/16/2021 09:26	X^
Secchi Disc	3.5		meters	1			9/16/2021 09:26	X^
Total Depth	3.5		meters	1			9/16/2021 09:26	X^

Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	44970		umhos/cm	1			9/16/2021 09:26	F^
DO Saturation %	69.1		%	1			9/16/2021 09:26	F^
Dissolved Oxygen	4.54		mg/L	1			9/16/2021 09:26	F^
Salinity	28.83		ppt	1			9/16/2021 09:26	F^
Temperature	30.4		°C	1			9/16/2021 09:26	F^
pH	8.08		SU	1			9/16/2021 09:26	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10		MPN/100 mL	10			9/16/2021 16:26	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation						
Total Nitrogen	0.419		mg/L	1			9/30/2021 08:52	T

Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	2.0		NTU	1			9/16/2021 18:35	F

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983004**

Date Received: 09/16/21 13:51 Matrix: Water

Sample ID: **KENDALL**

Date Collected: 09/16/21 09:26

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	0.419	I	mg/L	1	0.50	0.20	9/24/2021 10:21	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.043		mg/L	1	0.01	0.005	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	3.2		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0060	I	mg/L	1	0.010	0.0060	9/17/2021 12:52	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	9/17/2021 12:52	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:52	T

Lab ID: **F2103983005**

Date Received: 09/16/21 13:51 Matrix: Water

Sample ID: **COLLIER_BRIDGE**

Date Collected: 09/16/21 09:34

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			9/16/2021 09:34	X^
Secchi Disc	4		meters	1			9/16/2021 09:34	X^
Total Depth	4		meters	1			9/16/2021 09:34	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	45326		umhos/cm	1			9/16/2021 09:34	F^
DO Saturation %	77.8		%	1			9/16/2021 09:34	F^
Dissolved Oxygen	4.98		mg/L	1			9/16/2021 09:34	F^
Salinity	29.32		ppt	1			9/16/2021 09:34	F^

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983005**
 Sample ID: **COLLIER_BRIDGE**

Date Received: 09/16/21 13:51 Matrix: Water
 Date Collected: 09/16/21 09:34

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	30.7		°C	1			9/16/2021 09:34	F^
pH	8.1		SU	1			9/16/2021 09:34	F^

Microbiology

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

Enterococcus	20		MPN/100 mL	10	10	10	9/16/2021 16:26	F
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WET CHEMISTRY

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

Total Nitrogen	0.461		mg/L	1	0.20	0.12	9/30/2021 08:52	T
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Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	1.3		NTU	1	0.10	0.10	9/16/2021 18:35	F
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Analysis Desc: TKN, E351.2, Water Preparation Method: Copper Sulfate Digestion
 Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.461	I	mg/L	1	0.50	0.20	9/24/2021 10:21	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)	0.007	I	mg/L	1	0.01	0.005	9/23/2021 11:27	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	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	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	9/17/2021 12:53	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	9/17/2021 12:53	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:53	T

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983006**
Sample ID: **LANDMARK**

Date Received: 09/16/21 13:51 Matrix: Water
Date Collected: 09/16/21 09:52

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			9/16/2021 09:52	X^
Secchi Disc	2.5		meters	1			9/16/2021 09:52	X^
Total Depth	2.5		meters	1			9/16/2021 09:52	X^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	48796		umhos/cm	1			9/16/2021 09:52	F^
DO Saturation %	82.9		%	1			9/16/2021 09:52	F^
Dissolved Oxygen	5.2		mg/L	1			9/16/2021 09:52	F^
Salinity	31.68		ppt	1			9/16/2021 09:52	F^
Temperature	30.9		°C	1			9/16/2021 09:52	F^
pH	8.16		SU	1			9/16/2021 09:52	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	20		MPN/100 mL	10	10	10	9/16/2021 16:26	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen, Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.208		mg/L	1	0.20	0.12	9/30/2021 08:52	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	0.75		NTU	1	0.10	0.10	9/16/2021 18:35	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	9/24/2021 10:21	G
Analysis Desc: Total Phosphorus,E365.3,Analysis			Preparation Method: EPA 365.3 Analytical Method: EPA 365.3					
Total Phosphorus (as P)	0.027		mg/L	1	0.01	0.005	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983006** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **LANDMARK** Date Collected: 09/16/21 09:52

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	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.039		mg/L	1	0.010	0.0060	9/17/2021 12:54	T
Nitrate + Nitrite	0.045		mg/L	1	0.020	0.010	9/17/2021 12:54	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:54	T

Lab ID: **F2103983007** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **LANDMARK_DUP** Date Collected: 09/16/21 09:58

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			9/16/2021 09:58	X^
Secchi Disc	2.5		meters	1			9/16/2021 09:58	X^
Total Depth	2.5		meters	1			9/16/2021 09:58	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	48543		umhos/cm	1			9/16/2021 09:58	F^
DO Saturation %	87.8		%	1			9/16/2021 09:58	F^
Dissolved Oxygen	5.65		mg/L	1			9/16/2021 09:58	F^
Salinity	31.36		ppt	1			9/16/2021 09:58	F^
Temperature	30.8		°C	1			9/16/2021 09:58	F^
pH	8.14		SU	1			9/16/2021 09:58	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	20		MPN/100 mL	10	10	10	9/16/2021 16:26	F

WET CHEMISTRY

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

Workorder: F2103983 MARCO

Lab ID: **F2103983007** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **LANDMARK_DUP** Date Collected: 09/16/21 09:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Nitrogen	0.265		mg/L	1	0.20	0.12	9/30/2021 08:52	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	0.95		NTU	1	0.10	0.10	9/16/2021 18:35	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.219	I	mg/L	1	0.50	0.20	9/24/2021 10:21	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.052		mg/L	1	0.01	0.005	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.041		mg/L	1	0.010	0.0060	9/17/2021 12:54	T
Nitrate + Nitrite	0.046		mg/L	1	0.020	0.010	9/17/2021 12:54	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:54	T

Lab ID: **F2103983008** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **HC_CENTER** Date Collected: 09/16/21 10:09

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			9/16/2021 10:09	X^
Secchi Disc	2.5		meters	1			9/16/2021 10:09	X^
Total Depth	2.5		meters	1			9/16/2021 10:09	X^

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983008**
Sample ID: **HC_CENTER**

Date Received: 09/16/21 13:51 Matrix: Water
Date Collected: 09/16/21 10:09

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	43601		umhos/cm	1			9/16/2021 10:09	F^
DO Saturation %	81.4		%	1			9/16/2021 10:09	F^
Dissolved Oxygen	5.22		mg/L	1			9/16/2021 10:09	F^
Salinity	30.09		ppt	1			9/16/2021 10:09	F^
Temperature	30.8		°C	1			9/16/2021 10:09	F^
pH	8.26		SU	1			9/16/2021 10:09	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	9/16/2021 16:26	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation						
Total Nitrogen	0.444		mg/L	1	0.20	0.12	9/30/2021 08:52	T

Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	0.87		NTU	1	0.10	0.10	9/16/2021 18:35	F

Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.433	I	mg/L	1	0.50	0.20	9/24/2021 10:21	G

Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.005	I	mg/L	1	0.01	0.005	9/23/2021 11:27	G

Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	10		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G

Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.010		mg/L	1	0.010	0.0060	9/17/2021 12:55	T
Nitrate + Nitrite	0.011	I	mg/L	1	0.020	0.010	9/17/2021 12:55	T

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983008** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **HC_CENTER** Date Collected: 09/16/21 10:09

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	9/17/2021 12:55	T

Lab ID: **F2103983009** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **SWALLOW** Date Collected: 09/16/21 10:27

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			9/16/2021 10:27	X^
Secchi Disc	3.5		meters	1			9/16/2021 10:27	X^
Total Depth	4		meters	1			9/16/2021 10:27	X^

Analysis Desc: Data entry of field measurements	Analytical Method: Field Measurements							
Conductivity	49530		umhos/cm	1			9/16/2021 10:27	F^
DO Saturation %	47.5		%	1			9/16/2021 10:27	F^
Dissolved Oxygen	2.95		mg/L	1			9/16/2021 10:27	F^
Salinity	32.2		ppt	1			9/16/2021 10:27	F^
Temperature	31.3		°C	1			9/16/2021 10:27	F^
pH	7.97		SU	1			9/16/2021 10:27	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep,Water	Analytical Method: ENTEROLERT/ QUANTI-TRAY							
Enterococcus	10		MPN/100 mL	10	10	10	9/16/2021 16:26	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water	Analytical Method: Calculation							
Total Nitrogen	0.522		mg/L	1	0.20	0.12	9/30/2021 08:52	T

Analysis Desc: Turbidity, E180.1, Water	Analytical Method: EPA 180.1							
Turbidity	1.7		NTU	1	0.10	0.10	9/16/2021 18:35	F

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983009** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **SWALLOW** Date Collected: 09/16/21 10:27

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	0.477	I	mg/L	1	0.50	0.20	9/24/2021 10:21	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.014		mg/L	1	0.01	0.005	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	4.0		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.039		mg/L	1	0.010	0.0060	9/17/2021 12:56	T
Nitrate + Nitrite	0.045		mg/L	1	0.020	0.010	9/17/2021 12:56	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:56	T

Lab ID: **F2103983010** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **W_WINTERBERRY_BRIDGE** Date Collected: 09/16/21 10:42

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			9/16/2021 10:42	X^
Secchi Disc	2		meters	1			9/16/2021 10:42	X^
Total Depth	4.5		meters	1			9/16/2021 10:42	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	49936		umhos/cm	1			9/16/2021 10:42	F^
DO Saturation %	94.6		%	1			9/16/2021 10:42	F^
Dissolved Oxygen	5.92		mg/L	1			9/16/2021 10:42	F^
Salinity	32.53		ppt	1			9/16/2021 10:42	F^

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983010** Date Received: 09/16/21 13:51 Matrix: Water
Sample ID: **W_WINTERBERRY_BRIDGE** Date Collected: 09/16/21 10:42

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	30.5		°C	1			9/16/2021 10:42	F^
pH	8.1		SU	1			9/16/2021 10:42	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO- QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	9/16/2021 16:26	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen, Calculated, Water		Analytical Method: Calculation						
Total Nitrogen	0.290		mg/L	1	0.20	0.12	9/30/2021 08:52	T

Analysis Desc: Turbidity, E180.1, Water		Analytical Method: EPA 180.1						
Turbidity	1.9		NTU	1	0.10	0.10	9/16/2021 18:35	F

Analysis Desc: TKN, E351.2, Water		Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.279	I	mg/L	1	0.50	0.20	9/24/2021 10:21	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	9/23/2021 11:27	G

Analysis Desc: Chlorophylls, SM10200H, Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	6.4		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G

Analysis Desc: Nitrate+Nitrite Low-Level, SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0090	I	mg/L	1	0.010	0.0060	9/17/2021 12:57	T
Nitrate + Nitrite	0.011	I	mg/L	1	0.020	0.010	9/17/2021 12:57	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 12:57	T

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983011** Date Received: 09/16/21 13:51 Matrix: Water
Sample ID: **E_WINTERBERRY_BRIDGE** Date Collected: 09/16/21 10:57

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			9/16/2021 10:57	X^
Secchi Disc	3		meters	1			9/16/2021 10:57	X^
Total Depth	5.5		meters	1			9/16/2021 10:57	X^
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	46970		umhos/cm	1			9/16/2021 10:57	F^
DO Saturation %	94.8		%	1			9/16/2021 10:57	F^
Dissolved Oxygen	5.87		mg/L	1			9/16/2021 10:57	F^
Salinity	30.4		ppt	1			9/16/2021 10:57	F^
Temperature	30.9		°C	1			9/16/2021 10:57	F^
pH	8.19		SU	1			9/16/2021 10:57	F^
Microbiology								
Analysis Desc: Enterococcus w/MICRO- QT Prep,Water			Analytical Method: ENTEROLERT/ QUANTI-TRAY					
Enterococcus	185		MPN/100 mL	10	10	10	9/16/2021 16:26	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen, Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.12	U	mg/L	1	0.20	0.12	9/30/2021 08:52	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	3.1		NTU	1	0.10	0.10	9/16/2021 18:35	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	9/24/2021 10:21	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	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	14		mg/m3	1	3.0	2.5	9/22/2021 11:30	G

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983011** Date Received: 09/16/21 13:51 Matrix: Water
Sample ID: **E_WINTERBERRY_BRIDGE** Date Collected: 09/16/21 10:57

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	9/22/2021 11:30	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	9/17/2021 13:03	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	9/17/2021 13:03	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 13:03	T

Lab ID: **F2103983012** Date Received: 09/16/21 13:51 Matrix: Water
Sample ID: **MCILVAINE** Date Collected: 09/16/21 11:09

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			9/16/2021 11:09	X^
Secchi Disc	2		meters	1			9/16/2021 11:09	X^
Total Depth	3.25		meters	1			9/16/2021 11:09	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	50832		umhos/cm	1			9/16/2021 11:09	F^
DO Saturation %	84.3		%	1			9/16/2021 11:09	F^
Dissolved Oxygen	5.26		mg/L	1			9/16/2021 11:09	F^
Salinity	33.21		ppt	1			9/16/2021 11:09	F^
Temperature	29.8		°C	1			9/16/2021 11:09	F^
pH	8.09		SU	1			9/16/2021 11:09	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep, Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10	U	MPN/100 mL	10	10	10	9/16/2021 16:26	F

Analysis Desc: Total Phosphorus, E365.3, Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983012**
Sample ID: **MCILVAINE**

Date Received: 09/16/21 13:51 Matrix: Water
Date Collected: 09/16/21 11:09

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Phosphorus (as P)	0.012		mg/L	1	0.01	0.005	9/23/2021 11:27	G

WET CHEMISTRY

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

Total Nitrogen	0.413		mg/L	1	0.20	0.12	9/30/2021 08:52	T
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Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	3.4		NTU	1	0.10	0.10	9/16/2021 18:35	F
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Analysis Desc: TKN, E351.2, Water Preparation Method: Copper Sulfate Digestion
Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.413	I,J4	mg/L	1	0.50	0.20	9/24/2021 10:21	G
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Analysis Desc: Chlorophylls, SM10200H, Water Analytical Method: SM 10200 H

Corrected Chlorophyll A	7.2		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	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	9/17/2021 13:06	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	9/17/2021 13:06	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 13:06	T

Lab ID: **F2103983013**
Sample ID: **HUMMINGBIRD**

Date Received: 09/16/21 13:51 Matrix: Water
Date Collected: 09/16/21 11:26

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			9/16/2021 11:26	X^
Secchi Disc	2		meters	1			9/16/2021 11:26	X^
Total Depth	2		meters	1			9/16/2021 11:26	X^

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983013**
Sample ID: **HUMMINGBIRD**

Date Received: 09/16/21 13:51 Matrix: Water
Date Collected: 09/16/21 11:26

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	45404		umhos/cm	1			9/16/2021 11:26	F^
DO Saturation %	73.8		%	1			9/16/2021 11:26	F^
Dissolved Oxygen	4.56		mg/L	1			9/16/2021 11:26	F^
Salinity	29.19		ppt	1			9/16/2021 11:26	F^
Temperature	32.1		°C	1			9/16/2021 11:26	F^
pH	7.95		SU	1			9/16/2021 11:26	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY						
Enterococcus	10		MPN/100 mL	10	10	10	9/16/2021 16:26	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation						
Total Nitrogen	0.508		mg/L	1	0.20	0.12	9/30/2021 08:52	T
Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1						
Turbidity	2.0		NTU	1	0.10	0.10	9/16/2021 18:35	F
Analysis Desc: TKN,E351.2,Water		Preparation Method: Copper Sulfate Digestion						
		Analytical Method: EPA 351.2						
Total Kjeldahl Nitrogen	0.496	I	mg/L	1	0.50	0.20	9/24/2021 10:21	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.034		mg/L	1	0.01	0.005	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	34		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0080	I	mg/L	1	0.010	0.0060	9/17/2021 13:06	T
Nitrate + Nitrite	0.012	I	mg/L	1	0.020	0.010	9/17/2021 13:06	T

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983013** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **HUMMINGBIRD** Date Collected: 09/16/21 11:26

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	9/17/2021 13:06	T

Lab ID: **F2103983014** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **HOLLYHOCK** Date Collected: 09/16/21 11:39

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			9/16/2021 11:39	X^
Secchi Disc	2		meters	1			9/16/2021 11:39	X^
Total Depth	2.5		meters	1			9/16/2021 11:39	X^

Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	45612		umhos/cm	1			9/16/2021 11:39	F^
DO Saturation %	73.5		%	1			9/16/2021 11:39	F^
Dissolved Oxygen	4.74		mg/L	1			9/16/2021 11:39	F^
Salinity	29.32		ppt	1			9/16/2021 11:39	F^
Temperature	30.5		°C	1			9/16/2021 11:39	F^
pH	8.03		SU	1			9/16/2021 11:39	F^

Microbiology

Analysis Desc: Enterococcus w/MICRO-QT Prep,Water		Analytical Method: ENTEROLERT/ QUANTI-TRAY							
Enterococcus	10	U	MPN/100 mL	10		10	10	9/16/2021 16:26	F

WET CHEMISTRY

Analysis Desc: Total Nitrogen,Calculated,Water		Analytical Method: Calculation							
Total Nitrogen	0.513		mg/L	1		0.20	0.12	9/30/2021 08:52	T

Analysis Desc: Turbidity,E180.1,Water		Analytical Method: EPA 180.1							
Turbidity	1.2		NTU	1		0.10	0.10	9/16/2021 18:35	F

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983014** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **HOLLYHOCK** Date Collected: 09/16/21 11:39

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	0.513		mg/L	1	0.50	0.20	9/24/2021 10:21	G
Analysis Desc: Total Phosphorus,E365.3,Analysis		Preparation Method: EPA 365.3						
		Analytical Method: EPA 365.3						
Total Phosphorus (as P)	0.027		mg/L	1	0.01	0.005	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water		Analytical Method: SM 10200 H						
Corrected Chlorophyll A	15		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Analysis Desc: Nitrate+Nitrite Low-Level,SM4500NO3F		Analytical Method: SM 4500NO3-F (Low Level)						
Nitrate (as N)	0.0080	I	mg/L	1	0.010	0.0060	9/17/2021 13:07	T
Nitrate + Nitrite	0.010	I	mg/L	1	0.020	0.010	9/17/2021 13:07	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 13:07	T

Lab ID: **F2103983015** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **WINDMILL** Date Collected: 09/16/21 11:53

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			9/16/2021 11:53	X^
Secchi Disc	3		meters	1			9/16/2021 11:53	X^
Total Depth	4		meters	1			9/16/2021 11:53	X^
Analysis Desc: Data entry of field measurements		Analytical Method: Field Measurements						
Conductivity	42897		umhos/cm	1			9/16/2021 11:53	F^
DO Saturation %	94.1		%	1			9/16/2021 11:53	F^
Dissolved Oxygen	6.14		mg/L	1			9/16/2021 11:53	F^
Salinity	27.43		ppt	1			9/16/2021 11:53	F^

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983015**

Date Received: 09/16/21 13:51 Matrix: Water

Sample ID: **WINDMILL**

Date Collected: 09/16/21 11:53

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Temperature	30.2		°C	1			9/16/2021 11:53	F^
pH	8.1		SU	1			9/16/2021 11:53	F^

Microbiology

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

Enterococcus	10		MPN/100 mL	10	10	10	9/16/2021 16:26	F
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WET CHEMISTRY

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

Total Nitrogen	0.547		mg/L	1	0.20	0.12	9/30/2021 08:52	T
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Analysis Desc: Turbidity, E180.1, Water Analytical Method: EPA 180.1

Turbidity	1.8		NTU	1	0.10	0.10	9/16/2021 18:35	F
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Analysis Desc: TKN, E351.2, Water Preparation Method: Copper Sulfate Digestion
 Analytical Method: EPA 351.2

Total Kjeldahl Nitrogen	0.547		mg/L	1	0.50	0.20	9/24/2021 10:21	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)	0.007	I	mg/L	1	0.01	0.005	9/23/2021 11:27	G
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Analysis Desc: Chlorophylls, SM10200H, Water Analytical Method: SM 10200 H

Corrected Chlorophyll A	14		mg/m3	1	3.0	2.5	9/22/2021 11:30	G
Pheophytin A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	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	9/17/2021 13:08	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	9/17/2021 13:08	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 13:08	T

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983016** Date Received: 09/16/21 13:51 Matrix: Water
 Sample ID: **EQUIPMENT_BLANK** Date Collected: 09/16/21 12:00

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	9/16/2021 16:26	F
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water			Analytical Method: Calculation					
Total Nitrogen	0.12	U	mg/L	1	0.20	0.12	9/30/2021 08:52	T
Analysis Desc: Turbidity,E180.1,Water			Analytical Method: EPA 180.1					
Turbidity	0.20		NTU	1	0.10	0.10	9/16/2021 18:35	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	9/24/2021 10:21	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	9/23/2021 11:27	G
Analysis Desc: Chlorophylls, SM10200H,Water			Analytical Method: SM 10200 H					
Corrected Chlorophyll A	2.5	U	mg/m3	1	3.0	2.5	9/22/2021 11:30	G

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ANALYTICAL RESULTS

Workorder: F2103983 MARCO

Lab ID: **F2103983016**
 Sample ID: **EQUIPMENT_BLANK**

Date Received: 09/16/21 13:51 Matrix: Water
 Date Collected: 09/16/21 12:00

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	9/22/2021 11:30	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	9/17/2021 13:09	T
Nitrate + Nitrite	0.010	U	mg/L	1	0.020	0.010	9/17/2021 13:09	T
Nitrite (as N)	0.0080	U	mg/L	1	0.010	0.0080	9/17/2021 13:09	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: F2103983 MARCO

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 F2103983001-16 filtered on 9/17/21 at 11:33

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: F2103983 MARCO

QC Batch: MICf/1381 Analysis Method: ENTEROLERT/ QUANTI-TRAY
 QC Batch Method: ENTEROLERT/ QUANTI-TRAY Prepared:
 Associated Lab Samples: F2103983001, F2103983002, F2103983003, F2103983004, F2103983005, F2103983006, F2103983007,

METHOD BLANK: 4030948

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

QC Batch: WCAf/7001 Analysis Method: SM 4500NO3-F (Low Level)
 QC Batch Method: SM 4500NO3-F (Low Level) Prepared:
 Associated Lab Samples: F2103983001, F2103983002, F2103983003, F2103983004, F2103983005, F2103983006, F2103983007,

METHOD BLANK: 4031035

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/7002 Analysis Method: SM 4500NO3-F (Low Level)
 QC Batch Method: SM 4500NO3-F (Low Level) Prepared:
 Associated Lab Samples: F2103983011, F2103983012, F2103983013, F2103983014, F2103983015, F2103983016

METHOD BLANK: 4031041

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/1608 Analysis Method: EPA 180.1
 QC Batch Method: EPA 180.1 Prepared:
 Associated Lab Samples: F2103983001, F2103983002, F2103983003, F2103983004, F2103983005, F2103983006, F2103983007,

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QUALITY CONTROL DATA

Workorder: F2103983 MARCO

METHOD BLANK: 4032948

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

QC Batch: WCAg/3837 Analysis Method: SM 10200 H
 QC Batch Method: SM 10200 H Prepared:
 Associated Lab Samples: F2103983001, F2103983002, F2103983003, F2103983004, F2103983005, F2103983006, F2103983007,

METHOD BLANK: 4034891

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

QC Batch: WCAg/3859 Analysis Method: EPA 365.3
 QC Batch Method: EPA 365.3 Prepared: 09/22/2021 09:36
 Associated Lab Samples: F2103983001, F2103983002, F2103983003, F2103983004, F2103983005, F2103983006, F2103983007,

METHOD BLANK: 4037686

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

METHOD BLANK: 4037692

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

QC Batch: WCAg/3861 Analysis Method: EPA 365.3
 QC Batch Method: EPA 365.3 Prepared: 09/22/2021 09:36
 Associated Lab Samples: F2103983012, F2103983013, F2103983014, F2103983015, F2103983016

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QUALITY CONTROL DATA

Workorder: F2103983 MARCO

METHOD BLANK: 4037732

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

METHOD BLANK: 4037738

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

QC Batch: WCAg/3872 Analysis Method: EPA 351.2
 QC Batch Method: Copper Sulfate Digestion Prepared: 09/22/2021 16:00
 Associated Lab Samples: F2103983001, F2103983002

METHOD BLANK: 4038297

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

QC Batch: WCAg/3874 Analysis Method: EPA 351.2
 QC Batch Method: Copper Sulfate Digestion Prepared: 09/22/2021 16:00
 Associated Lab Samples: F2103983003, F2103983004, F2103983005, F2103983006, F2103983007, F2103983008, F2103983009,

METHOD BLANK: 4038339

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 QUALIFIERS

Workorder: F2103983 MARCO

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: F2103983 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2103983001	BARFIELD_BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983002	OLDE_MARCO			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983003	JH_PARK			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983004	KENDALL			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983005	COLLIER_BRIDGE			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983006	LANDMARK			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983007	LANDMARK_DUP			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983008	HC_CENTER			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983009	SWALLOW			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983010	W_WINTERBERRY_BRID GE			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983011	E_WINTERBERRY_BRIDG E			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983012	MCILVAINE			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983013	HUMMINGBIRD			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983014	HOLLYHOCK			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983015	WINDMILL			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983016	EQUIPMENT_BLANK			ENTEROLERT/ QUANTI-TRAY	MICi/1381
F2103983001	BARFIELD_BRIDGE			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983002	OLDE_MARCO			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983003	JH_PARK			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983004	KENDALL			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983005	COLLIER_BRIDGE			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983006	LANDMARK			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983007	LANDMARK_DUP			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983008	HC_CENTER			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983009	SWALLOW			SM 4500NO3-F (Low Level)	WCAAt/7001
F2103983010	W_WINTERBERRY_BRID GE			SM 4500NO3-F (Low Level)	WCAAt/7001

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2103983 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2103983011	E_WINTERBERRY_BRIDG E			SM 4500NO3-F (Low Level)	WCAf/7002
F2103983012	MCILVAINE			SM 4500NO3-F (Low Level)	WCAf/7002
F2103983013	HUMMINGBIRD			SM 4500NO3-F (Low Level)	WCAf/7002
F2103983014	HOLLYHOCK			SM 4500NO3-F (Low Level)	WCAf/7002
F2103983015	WINDMILL			SM 4500NO3-F (Low Level)	WCAf/7002
F2103983016	EQUIPMENT_BLANK			SM 4500NO3-F (Low Level)	WCAf/7002
F2103983001	BARFIELD_BRIDGE			EPA 180.1	WCAf/1608
F2103983002	OLDE_MARCO			EPA 180.1	WCAf/1608
F2103983003	JH_PARK			EPA 180.1	WCAf/1608
F2103983004	KENDALL			EPA 180.1	WCAf/1608
F2103983005	COLLIER_BRIDGE			EPA 180.1	WCAf/1608
F2103983006	LANDMARK			EPA 180.1	WCAf/1608
F2103983007	LANDMARK_DUP			EPA 180.1	WCAf/1608
F2103983008	HC_CENTER			EPA 180.1	WCAf/1608
F2103983009	SWALLOW			EPA 180.1	WCAf/1608
F2103983010	W_WINTERBERRY_BRID GE			EPA 180.1	WCAf/1608
F2103983011	E_WINTERBERRY_BRIDG E			EPA 180.1	WCAf/1608
F2103983012	MCILVAINE			EPA 180.1	WCAf/1608
F2103983013	HUMMINGBIRD			EPA 180.1	WCAf/1608
F2103983014	HOLLYHOCK			EPA 180.1	WCAf/1608
F2103983015	WINDMILL			EPA 180.1	WCAf/1608
F2103983016	EQUIPMENT_BLANK			EPA 180.1	WCAf/1608
F2103983001	BARFIELD_BRIDGE			SM 10200 H	WCAg/3837
F2103983002	OLDE_MARCO			SM 10200 H	WCAg/3837
F2103983003	JH_PARK			SM 10200 H	WCAg/3837
F2103983004	KENDALL			SM 10200 H	WCAg/3837
F2103983005	COLLIER_BRIDGE			SM 10200 H	WCAg/3837
F2103983006	LANDMARK			SM 10200 H	WCAg/3837
F2103983007	LANDMARK_DUP			SM 10200 H	WCAg/3837
F2103983008	HC_CENTER			SM 10200 H	WCAg/3837

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2103983 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2103983009	SWALLOW			SM 10200 H	WCAG/3837
F2103983010	W_WINTERBERRY_BRIDGE			SM 10200 H	WCAG/3837
F2103983011	E_WINTERBERRY_BRIDGE			SM 10200 H	WCAG/3837
F2103983012	MCILVAINE			SM 10200 H	WCAG/3837
F2103983013	HUMMINGBIRD			SM 10200 H	WCAG/3837
F2103983014	HOLLYHOCK			SM 10200 H	WCAG/3837
F2103983015	WINDMILL			SM 10200 H	WCAG/3837
F2103983016	EQUIPMENT_BLANK			SM 10200 H	WCAG/3837
F2103983001	BARFIELD_BRIDGE	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983002	OLDE_MARCO	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983003	JH_PARK	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983004	KENDALL	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983005	COLLIER_BRIDGE	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983006	LANDMARK	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983007	LANDMARK_DUP	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983008	HC_CENTER	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983009	SWALLOW	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983010	W_WINTERBERRY_BRIDGE	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983011	E_WINTERBERRY_BRIDGE	EPA 365.3	WCAG/3859	EPA 365.3	WCAG/3860
F2103983012	MCILVAINE	EPA 365.3	WCAG/3861	EPA 365.3	WCAG/3862
F2103983013	HUMMINGBIRD	EPA 365.3	WCAG/3861	EPA 365.3	WCAG/3862
F2103983014	HOLLYHOCK	EPA 365.3	WCAG/3861	EPA 365.3	WCAG/3862
F2103983015	WINDMILL	EPA 365.3	WCAG/3861	EPA 365.3	WCAG/3862
F2103983016	EQUIPMENT_BLANK	EPA 365.3	WCAG/3861	EPA 365.3	WCAG/3862
F2103983001	BARFIELD_BRIDGE	Copper Sulfate Digestion	WCAG/3872	EPA 351.2	WCAG/3891
F2103983002	OLDE_MARCO	Copper Sulfate Digestion	WCAG/3872	EPA 351.2	WCAG/3891
F2103983003	JH_PARK	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983004	KENDALL	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2103983 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2103983005	COLLIER_BRIDGE	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983006	LANDMARK	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983007	LANDMARK_DUP	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983008	HC_CENTER	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983009	SWALLOW	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983010	W_WINTERBERRY_BRIDGE	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983011	E_WINTERBERRY_BRIDGE	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983012	MCILVAINE	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983013	HUMMINGBIRD	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983014	HOLLYHOCK	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983015	WINDMILL	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983016	EQUIPMENT_BLANK	Copper Sulfate Digestion	WCAG/3874	EPA 351.2	WCAG/3893
F2103983001	BARFIELD_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2103983001	BARFIELD_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2103983001	BARFIELD_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983002	OLDE_MARCO	Calculation	CLCt/	Calculation	CLCt/
F2103983002	OLDE_MARCO	DISRES	FLDx/	DISRES	FLDx/
F2103983002	OLDE_MARCO	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983003	JH_PARK	Calculation	CLCt/	Calculation	CLCt/
F2103983003	JH_PARK	DISRES	FLDx/	DISRES	FLDx/
F2103983003	JH_PARK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983004	KENDALL	Calculation	CLCt/	Calculation	CLCt/
F2103983004	KENDALL	DISRES	FLDx/	DISRES	FLDx/
F2103983004	KENDALL	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983005	COLLIER_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2103983005	COLLIER_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2103983005	COLLIER_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983006	LANDMARK	Calculation	CLCt/	Calculation	CLCt/
F2103983006	LANDMARK	DISRES	FLDx/	DISRES	FLDx/
F2103983006	LANDMARK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983007	LANDMARK_DUP	Calculation	CLCt/	Calculation	CLCt/
F2103983007	LANDMARK_DUP	DISRES	FLDx/	DISRES	FLDx/

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: F2103983 MARCO

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
F2103983007	LANDMARK_DUP	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983008	HC_CENTER	Calculation	CLCt/	Calculation	CLCt/
F2103983008	HC_CENTER	DISRES	FLDx/	DISRES	FLDx/
F2103983008	HC_CENTER	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983009	SWALLOW	Calculation	CLCt/	Calculation	CLCt/
F2103983009	SWALLOW	DISRES	FLDx/	DISRES	FLDx/
F2103983009	SWALLOW	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983010	W_WINTERBERRY_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2103983010	W_WINTERBERRY_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2103983010	W_WINTERBERRY_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983011	E_WINTERBERRY_BRIDGE	Calculation	CLCt/	Calculation	CLCt/
F2103983011	E_WINTERBERRY_BRIDGE	DISRES	FLDx/	DISRES	FLDx/
F2103983011	E_WINTERBERRY_BRIDGE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983012	MCILVAINE	Calculation	CLCt/	Calculation	CLCt/
F2103983012	MCILVAINE	DISRES	FLDx/	DISRES	FLDx/
F2103983012	MCILVAINE	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983013	HUMMINGBIRD	Calculation	CLCt/	Calculation	CLCt/
F2103983013	HUMMINGBIRD	DISRES	FLDx/	DISRES	FLDx/
F2103983013	HUMMINGBIRD	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983014	HOLLYHOCK	Calculation	CLCt/	Calculation	CLCt/
F2103983014	HOLLYHOCK	DISRES	FLDx/	DISRES	FLDx/
F2103983014	HOLLYHOCK	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983015	WINDMILL	Calculation	CLCt/	Calculation	CLCt/
F2103983015	WINDMILL	DISRES	FLDx/	DISRES	FLDx/
F2103983015	WINDMILL	Field Measurements	FLDf/	Field Measurements	FLDf/
F2103983016	EQUIPMENT_BLANK	Calculation	CLCt/	Calculation	CLCt/
F2103983016	EQUIPMENT_BLANK	DISRES	FLDx/	DISRES	FLDx/
F2103983016	EQUIPMENT_BLANK	Field Measurements	FLDf/	Field Measurements	FLDf/

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Work Order: F2103983
Client: City of Marco Island
Project ID: MARCO

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

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: All acceptance criteria were met.
Spikes: The matrix spike duplicate recovery of TKN for F2103983002 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Matrix Spike (MS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required.

Internal Standard: All acceptance criteria were met.
Samples: All acceptance criteria were met.
Other: All acceptance criteria were met.
Serial Dilution: All acceptance criteria were met.
Duplicates: The relative percent difference (RPD) for the following analyte(s) in the replicate matrix spike analyses of F2103983002 was outside control criteria: TKN. Failing RPD indicates inconsistency in the parent sample matrix. All spike recoveries in the MS and associated LCS were within acceptable limits, indicating the analytical batch was in control. No further corrective action was needed.



Work Order: F2103983
Client: City of Marco Island
Project ID: MARCO

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

Calibration: All acceptance criteria were met.
Blanks: All acceptance criteria were met.
Surrogates: All acceptance criteria were met.
Spikes: The matrix spike (MS) recoveries of TKN for F2102983012 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.
Internal Standard: All acceptance criteria were met.
Samples: All acceptance criteria were met.
Other: All acceptance criteria were met.
Serial Dilution: All acceptance criteria were met.
Duplicates: All acceptance criteria were met.



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- Altamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: ES3076
- Fort Myers: 13100 Westlakes Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: ES4492
- Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.563.9350 • Lab ID: ES2574
- Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: ES11095

- Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: ES2001
- Miramar: 10200 USA Today Way, FL 33025 • 954.896.2280 • Lab ID: ES2535
- Tampa: 9610 Process Farm Ave., FL 33619 • 813.630.9516 • Lab ID: ES4589

Client Name: **City of Marco Island** Project Name: **MARCO**

Address: **50 Bald Eagle Dr.** Project Number:

Marco Island, FL 314145 PO Number:

Phone: **239-300-1462** FDEP Facility No.:

FAX: **239-300-1462** FDEP Facility Addr.:

Contact: **Jason Tomasesetti** Special Instructions:

Sampled By: **P Manard**

Turn Around Time: **Standard X Rush**

AEL Profile #: **65884** ADAPT EQUIS Other WIN

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT
			DATE	TIME		
	BARFIELD_BRIDGE	Grab	9/16/12	8:54 8:40	SW	4
	OLDE_MARCO	Grab		0852	SW	4
	JH_PARK	Grab		0910	SW	4
	KENDALL	Grab		0923	SW	4
	COLLIER_BRIDGE	Grab		0934	SW	4
	HC_CENTER	Grab		1005	SW	4
	LANDMARK	Grab		0949	SW	4
	LANDMARK_DUP	Grab		0955	SW	4
	SWALLOW	Grab		1023	SW	4
	W_WINTERBERRY_BRIDGE	Grab		1038	SW	4

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

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 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:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	9/16/12	1351	<i>[Signature]</i>	9/16/12	1351

ANALYSIS REQUIRED	BOTTLE SIZE & TYPE
NO2/NO3	250 mL Plastic
TKN/TP/TN	250 mL Plastic
Chlor-A/Turbidity	1L Amb Plastic
Enterococci	100 mL Cup



LABORATORY I.D. NUMBER

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



Advanced Environmental Laboratories, Inc.

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- Fort Myers: 13100 Westlakes Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: EM442
- Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: EJ2574
- Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095

- Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.1347 • Lab ID: EG2801
- Miramar: 10200 USA Today Way, FL 33025 • 564.868.2702 • Lab ID: E31135
- Tampa: 9610 Pinesse Palm Ave., FL 33619 • 813.630.0515 • Lab ID: EG4587

F2103983

Page 2 of 2

Client Name: City of Marco Island		Project Name: MARCO	
Address: 50 Bald Eagle Dr.		Project Number:	
Marco Island, FL 314145		PO Number:	
Phone: 239-300-1462		FDEP Facility No.:	
FAX:		FDEP Facility Addr.:	
Contact: Jason Tomassetti		Special Instructions:	
Sampled By: P. Manard		Turn Around Time: Standard X Rush	
AEL Profile #: 65884		ADAPT	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	EQUIS		Other	WIN	NO. COUNT	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE
			DATE	TIME					
E_WINTERBERRY_BRIDGE		Grab	9/16/21	1050	SW	4	X	NO2/NO3	250 mL Plastic
	MCILVAINE	Grab		1106	SW	4	X	TKN/TP/TN	250 mL Plastic
	HUMMINGBIRD	Grab		1123	SW	4	X	Chlor-A/Turbidity	1L Amb Plastic
	HOLLYHOCK	Grab		1136	SW	4	X	Enterococci	100 mL Cup
	WINDMILL	Grab		1150	SW	4	X		
	EQUIPMENT_BLANK	Grab		1200	SW	4	X		

LABORATORY I.D. NUMBER	NO. COUNT	NO. FILTERED?
011	4	
012	4	
013	4	
014	4	
015	4	
016	4	

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

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 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

Relinquished by: _____ Date: 9/16/21 Time: 1351 Received by: _____ Date: 9/16/21 Time: 1351

FOR DRINKING WATER USE: (When PWS information not otherwise supplied) PWS ID: _____

Contact Person: _____ Supplier of Water: _____ Site Address: _____


Temp. when received (observed) 7.9 °C Temp. when received (corrected) 7.9 °C

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	KENDALL	KENDALL
SAMPLE TIME	8:34	8:40	8:52	9:01	9:10	9:14	9:23	9:26
SAMPLE DEPTH	0.30m top	3.0	0.30m top	2.5	0.30m top	3.5	0.30m top	3.0
TOTAL DEPTH	3.5	3.5	3.0	3.0	4.0	4.0	3.5	3.5
TEMP /C	29.9	30.1	29.7	29.2	30.1	30.3	30.4	31.4
D.O. mg / L	5.39	5.21	4.18	4.28	5.33	5.22	4.54	2.58
D.O. % sat.	84.5	84.2	67.1	69.0	83.3	83.2	69.1	40.7
CONDUCTIVITY(umhos)	53,446	53,386	52,238	52,243	45,422	47,812	44,970	47,327
SALINITY ppt.	34.73	34.78	34.28	34.25	30.28	31.12	28.83	30.60
pH su.	7.98	8.02	8.03	8.05	8.06	8.08	8.08	7.91
SECCHI DEPTH	3.5	3.5	3.0	3.0	4.0	4.0	3.5	3.5

FIELD COMMENTS:	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds
WEATHER :	76 DEG F	77 DEG F	76 DEG F	76 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X

Authentication			
SAMPLED BY: (PRINT) /	BM / AEL	Sampler's Signature	Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			9/16/21

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	LANDMARK	LANDMARK	LANDMARK DUP	LANDMARK DUP	HC CENTER	HC CENTER
SAMPLE TIME	9:34	9:38	9:49	9:52	9:55	9:58	10:05	10:09
SAMPLE DEPTH	0.30m top	3.5	0.30m top	2.0	0.30m top	2.0	0.30m top	2.0
TOTAL DEPTH	4.0	40	2.5	2.5	2.5	2.5	2.5	2.5
TEMP /C	30.7	31.3	30.9	31.8	30.8	31.8	30.8	32.0
D.O. mg / L	4.98	1.91	5.20	4.56	5.65	4.61	5.22	1.78
D.O. % sat.	77.8	30.4	82.9	74.2	87.8	73.9	81.4	28.8
CONDUCTIVITY(umhos)	45,326	48,721	48,796	51,412	48,543	51,479	43,601	48,797
SALINITY ppt.	29.32	31.61	31.68	33.59	31.36	33.61	30.09	31.65
pH su.	8.10	7.91	8.16	8.13	8.14	8.11	8.26	7.9
SECCHI DEPTH	4.0	4.0	2.5	2.5	2.5	2.5	2.5	2.5

FIELD COMMENTS:	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds
WEATHER :	77 DEG F	76 DEG F	76 DEG F	78 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X

Authentication

SAMPLED BY: (PRINT) /	BM / AEL	Sampler's Signature	Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES			

Advanced Environmental Laboratories, Inc


Client Name: **CITY OF MARCO ISLAND** Site Name: **MARCO ISLAND WATERWAYS**

Water Sample Parameters

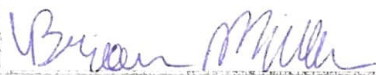
SAMPLE LOCATION	SWALLOW	SWALLOW	WEST WB BRIDGE	WEST WB BRIDGE	EAST WB BRIDGE	EAST WB BRIDGE	MCILVAINE	MCILVAINE
SAMPLE TIME	10:23	10:27	10:38	10:42	10:50	10:56	11:06	11:09
SAMPLE DEPTH	0.30m top	3.5	0.30m top	3.0	0.30m top	5.0	0.30m top	3.0
TOTAL DEPTH	4.0	4.0	4.5	4.5	5.5	5.5	3.25	3.25
TEMP /C	31.3	31.7	30.5	30.5	30.9	30.7	29.8	30.5
D.O. mg / L	2.95	2.71	5.92	4.89	5.87	3.15	5.26	2.56
D.O. % sat.	47.5	44.2	94.6	76.5	94.8	51.2	84.3	40.1
CONDUCTIVITY(umhos)	49,530	52,843	49,936	50,111	46,970	52,073	50,832	52,782
SALINITY ppt.	32.20	34.62	32.53	32.61	30.40	34.10	33.21	34.64
pH su.	7.97	8.02	8.10	8.08	8.19	8.04	8.09	7.97
SECCHI DEPTH	3.5	3.5	2.0	2.0	3.0	3.0	2.0	2.0

FIELD COMMENTS:	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds	Outgoing Tide Partial Clouds
WEATHER :	78 DEG F	79 DEG F	79 DEG F	80 DEG F
FIELD EQUIP. USED: ID # :	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X	VAN DORN / F3X

Authentication

SAMPLED BY: (PRINT) /	BM / AEL	Sampler's Signature		Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES				9/16/21

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND			Site Name:	MARCO ISLAND WATERWAYS			
Water Sample Parameters								
SAMPLE LOCATION	HUMMING BIRD	HUMMING BIRD	HOLLY HOCK	HOLLY HOCK	WINDMILL	WINDMILL	EQUIP BLANK	
SAMPLE TIME	11:23	11:26	11:36	11:39	11:50	11:53	12:00	
SAMPLE DEPTH	0.30m top	1.5	0.30m top	2.0	0.30m top	3.5	NA	
TOTAL DEPTH	2.0	2.0	2.5	2.5	4.0	4.0	NA	
TEMP /C	32.1	32.1	30.5	30.7	30.2	30.2	NA	
D.O. mg / L	4.56	1.12	4.74	42.56	6.14	2.58	NA	
D.O. % sat.	73.8	19.0	73.5	41.4	94.1	41.1	NA	
CONDUCTIVITY(umhos)	45,404	48,777	45,612	48,506	42,897	49,763	NA	
SALINITY ppt.	29.19	31.62	29.32	31.48	27.43	32.40	NA	
pH su.	7.95	7.75	8.03	7.86	8.10	7.94	NA	
SECCHI DEPTH	2.0	2.0	2.0	2.0	3.0	3.0	NA	
FIELD COMMENTS:	Outgoing Tide Partial Clouds		Outgoing Tide Partial Clouds		Outgoing Tide Partial Clouds		NA	
WEATHER :	80 DEG F		81 DEG F		82 DEG F		82 DEG F	
FIELD EQUIP. USED: ID # :	VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X	
Authentication								
SAMPLED BY: (PRINT) /	BM / AEL				Sampler's Signature		Date	
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES							9/16/21	