



Advanced Environmental Laboratories, Inc
13100 Westlinks Terrace, Unit 10 Ft. Myers FL 33913
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FINAL

Workorder: MARCO (F2105594)

January 18, 2022

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

RE: Workorder: F2105594 MARCO

Dear Jason Tomassetti:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday December 27, 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

Certificate of Analysis

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FINAL

Workorder: MARCO (F2105594)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analyses Reported
F2105594001	BARFIELD_BRIDGE	WA	Calculation	12/27/2021 08:10	12/27/2021 13:07	1
F2105594001	BARFIELD_BRIDGE	WA	DISRES	12/27/2021 08:10	12/27/2021 13:07	3
F2105594001	BARFIELD_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 08:10	12/27/2021 13:07	1
F2105594001	BARFIELD_BRIDGE	WA	EPA 180.1	12/27/2021 08:10	12/27/2021 13:07	1
F2105594001	BARFIELD_BRIDGE	WA	EPA 351.2	12/27/2021 08:10	12/27/2021 13:07	1
F2105594001	BARFIELD_BRIDGE	WA	EPA 365.3	12/27/2021 08:10	12/27/2021 13:07	1
F2105594001	BARFIELD_BRIDGE	WA	Field Measurements	12/27/2021 08:10	12/27/2021 13:07	6
F2105594001	BARFIELD_BRIDGE	WA	SM 10200 H	12/27/2021 08:10	12/27/2021 13:07	2
F2105594001	BARFIELD_BRIDGE	WA	SM 4500NO3-F (Low Level)	12/27/2021 08:10	12/27/2021 13:07	3
F2105594002	OLDE_MARCO	WA	Calculation	12/27/2021 11:43	12/27/2021 13:07	1
F2105594002	OLDE_MARCO	WA	DISRES	12/27/2021 11:43	12/27/2021 13:07	3
F2105594002	OLDE_MARCO	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 11:43	12/27/2021 13:07	1
F2105594002	OLDE_MARCO	WA	EPA 180.1	12/27/2021 11:43	12/27/2021 13:07	1
F2105594002	OLDE_MARCO	WA	EPA 351.2	12/27/2021 11:43	12/27/2021 13:07	1
F2105594002	OLDE_MARCO	WA	EPA 365.3	12/27/2021 11:43	12/27/2021 13:07	1
F2105594002	OLDE_MARCO	WA	Field Measurements	12/27/2021 11:43	12/27/2021 13:07	6
F2105594002	OLDE_MARCO	WA	SM 10200 H	12/27/2021 11:43	12/27/2021 13:07	2
F2105594002	OLDE_MARCO	WA	SM 4500NO3-F (Low Level)	12/27/2021 11:43	12/27/2021 13:07	3
F2105594003	JH_PARK	WA	Calculation	12/27/2021 08:24	12/27/2021 13:07	1
F2105594003	JH_PARK	WA	DISRES	12/27/2021 08:24	12/27/2021 13:07	3
F2105594003	JH_PARK	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 08:24	12/27/2021 13:07	1
F2105594003	JH_PARK	WA	EPA 180.1	12/27/2021 08:24	12/27/2021 13:07	1
F2105594003	JH_PARK	WA	EPA 351.2	12/27/2021 08:24	12/27/2021 13:07	1
F2105594003	JH_PARK	WA	EPA 365.3	12/27/2021 08:24	12/27/2021 13:07	1
F2105594003	JH_PARK	WA	Field Measurements	12/27/2021 08:24	12/27/2021 13:07	6
F2105594003	JH_PARK	WA	SM 10200 H	12/27/2021 08:24	12/27/2021 13:07	2
F2105594003	JH_PARK	WA	SM 4500NO3-F (Low Level)	12/27/2021 08:24	12/27/2021 13:07	3
F2105594004	KENDALL	WA	Calculation	12/27/2021 08:52	12/27/2021 13:07	1
F2105594004	KENDALL	WA	DISRES	12/27/2021 08:52	12/27/2021 13:07	3
F2105594004	KENDALL	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 08:52	12/27/2021 13:07	1
F2105594004	KENDALL	WA	EPA 180.1	12/27/2021 08:52	12/27/2021 13:07	1
F2105594004	KENDALL	WA	EPA 351.2	12/27/2021 08:52	12/27/2021 13:07	1
F2105594004	KENDALL	WA	EPA 365.3	12/27/2021 08:52	12/27/2021 13:07	1
F2105594004	KENDALL	WA	Field Measurements	12/27/2021 08:52	12/27/2021 13:07	6
F2105594004	KENDALL	WA	SM 10200 H	12/27/2021 08:52	12/27/2021 13:07	2





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Workorder: MARCO (F2105594)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analyses Reported
F2105594004	KENDALL	WA	SM 4500NO3-F (Low Level)	12/27/2021 08:52	12/27/2021 13:07	3
F2105594005	COLLIER_BRIDGE	WA	Calculation	12/27/2021 08:35	12/27/2021 13:07	1
F2105594005	COLLIER_BRIDGE	WA	DISRES	12/27/2021 08:35	12/27/2021 13:07	3
F2105594005	COLLIER_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 08:35	12/27/2021 13:07	1
F2105594005	COLLIER_BRIDGE	WA	EPA 180.1	12/27/2021 08:35	12/27/2021 13:07	1
F2105594005	COLLIER_BRIDGE	WA	EPA 351.2	12/27/2021 08:35	12/27/2021 13:07	1
F2105594005	COLLIER_BRIDGE	WA	EPA 365.3	12/27/2021 08:35	12/27/2021 13:07	1
F2105594005	COLLIER_BRIDGE	WA	Field Measurements	12/27/2021 08:35	12/27/2021 13:07	6
F2105594005	COLLIER_BRIDGE	WA	SM 10200 H	12/27/2021 08:35	12/27/2021 13:07	2
F2105594005	COLLIER_BRIDGE	WA	SM 4500NO3-F (Low Level)	12/27/2021 08:35	12/27/2021 13:07	3
F2105594006	LANDMARK	WA	Calculation	12/27/2021 09:20	12/27/2021 13:07	1
F2105594006	LANDMARK	WA	DISRES	12/27/2021 09:20	12/27/2021 13:07	3
F2105594006	LANDMARK	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 09:20	12/27/2021 13:07	1
F2105594006	LANDMARK	WA	EPA 180.1	12/27/2021 09:20	12/27/2021 13:07	1
F2105594006	LANDMARK	WA	EPA 351.2	12/27/2021 09:20	12/27/2021 13:07	1
F2105594006	LANDMARK	WA	EPA 365.3	12/27/2021 09:20	12/27/2021 13:07	1
F2105594006	LANDMARK	WA	Field Measurements	12/27/2021 09:20	12/27/2021 13:07	6
F2105594006	LANDMARK	WA	SM 10200 H	12/27/2021 09:20	12/27/2021 13:07	2
F2105594006	LANDMARK	WA	SM 4500NO3-F (Low Level)	12/27/2021 09:20	12/27/2021 13:07	3
F2105594007	LANDMARK_DUP	WA	Calculation	12/27/2021 09:28	12/27/2021 13:07	1
F2105594007	LANDMARK_DUP	WA	DISRES	12/27/2021 09:28	12/27/2021 13:07	3
F2105594007	LANDMARK_DUP	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 09:28	12/27/2021 13:07	1
F2105594007	LANDMARK_DUP	WA	EPA 180.1	12/27/2021 09:28	12/27/2021 13:07	1
F2105594007	LANDMARK_DUP	WA	EPA 351.2	12/27/2021 09:28	12/27/2021 13:07	1
F2105594007	LANDMARK_DUP	WA	EPA 365.3	12/27/2021 09:28	12/27/2021 13:07	1
F2105594007	LANDMARK_DUP	WA	Field Measurements	12/27/2021 09:28	12/27/2021 13:07	6
F2105594007	LANDMARK_DUP	WA	SM 10200 H	12/27/2021 09:28	12/27/2021 13:07	2
F2105594007	LANDMARK_DUP	WA	SM 4500NO3-F (Low Level)	12/27/2021 09:28	12/27/2021 13:07	3
F2105594008	HC_CENTER	WA	Calculation	12/27/2021 09:40	12/27/2021 13:07	1
F2105594008	HC_CENTER	WA	DISRES	12/27/2021 09:40	12/27/2021 13:07	3
F2105594008	HC_CENTER	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 09:40	12/27/2021 13:07	1
F2105594008	HC_CENTER	WA	EPA 180.1	12/27/2021 09:40	12/27/2021 13:07	1
F2105594008	HC_CENTER	WA	EPA 351.2	12/27/2021 09:40	12/27/2021 13:07	1
F2105594008	HC_CENTER	WA	EPA 365.3	12/27/2021 09:40	12/27/2021 13:07	1
F2105594008	HC_CENTER	WA	Field Measurements	12/27/2021 09:40	12/27/2021 13:07	6





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Workorder: MARCO (F2105594)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
F2105594008	HC_CENTER	WA	SM 10200 H	12/27/2021 09:40	12/27/2021 13:07	2
F2105594008	HC_CENTER	WA	SM 4500NO3-F (Low Level)	12/27/2021 09:40	12/27/2021 13:07	3
F2105594009	SWALLOW	WA	Calculation	12/27/2021 10:00	12/27/2021 13:07	1
F2105594009	SWALLOW	WA	DISRES	12/27/2021 10:00	12/27/2021 13:07	3
F2105594009	SWALLOW	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 10:00	12/27/2021 13:07	1
F2105594009	SWALLOW	WA	EPA 180.1	12/27/2021 10:00	12/27/2021 13:07	1
F2105594009	SWALLOW	WA	EPA 351.2	12/27/2021 10:00	12/27/2021 13:07	1
F2105594009	SWALLOW	WA	EPA 365.3	12/27/2021 10:00	12/27/2021 13:07	1
F2105594009	SWALLOW	WA	Field Measurements	12/27/2021 10:00	12/27/2021 13:07	6
F2105594009	SWALLOW	WA	SM 10200 H	12/27/2021 10:00	12/27/2021 13:07	2
F2105594009	SWALLOW	WA	SM 4500NO3-F (Low Level)	12/27/2021 10:00	12/27/2021 13:07	3
F2105594010	W_WINTERBERRY_BRIDGE	WA	Calculation	12/27/2021 10:14	12/27/2021 13:07	1
F2105594010	W_WINTERBERRY_BRIDGE	WA	DISRES	12/27/2021 10:14	12/27/2021 13:07	3
F2105594010	W_WINTERBERRY_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 10:14	12/27/2021 13:07	1
F2105594010	W_WINTERBERRY_BRIDGE	WA	EPA 180.1	12/27/2021 10:14	12/27/2021 13:07	1
F2105594010	W_WINTERBERRY_BRIDGE	WA	EPA 351.2	12/27/2021 10:14	12/27/2021 13:07	1
F2105594010	W_WINTERBERRY_BRIDGE	WA	EPA 365.3	12/27/2021 10:14	12/27/2021 13:07	1
F2105594010	W_WINTERBERRY_BRIDGE	WA	Field Measurements	12/27/2021 10:14	12/27/2021 13:07	6
F2105594010	W_WINTERBERRY_BRIDGE	WA	SM 10200 H	12/27/2021 10:14	12/27/2021 13:07	2
F2105594010	W_WINTERBERRY_BRIDGE	WA	SM 4500NO3-F (Low Level)	12/27/2021 10:14	12/27/2021 13:07	3
F2105594011	E_WINTERBERRY_BRIDGE	WA	Calculation	12/27/2021 10:24	12/27/2021 13:07	1
F2105594011	E_WINTERBERRY_BRIDGE	WA	DISRES	12/27/2021 10:24	12/27/2021 13:07	3
F2105594011	E_WINTERBERRY_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 10:24	12/27/2021 13:07	1
F2105594011	E_WINTERBERRY_BRIDGE	WA	EPA 180.1	12/27/2021 10:24	12/27/2021 13:07	1
F2105594011	E_WINTERBERRY_BRIDGE	WA	EPA 351.2	12/27/2021 10:24	12/27/2021 13:07	1
F2105594011	E_WINTERBERRY_BRIDGE	WA	EPA 365.3	12/27/2021 10:24	12/27/2021 13:07	1
F2105594011	E_WINTERBERRY_BRIDGE	WA	Field Measurements	12/27/2021 10:24	12/27/2021 13:07	6
F2105594011	E_WINTERBERRY_BRIDGE	WA	SM 10200 H	12/27/2021 10:24	12/27/2021 13:07	2
F2105594011	E_WINTERBERRY_BRIDGE	WA	SM 4500NO3-F (Low Level)	12/27/2021 10:24	12/27/2021 13:07	3
F2105594012	MCILVAINE	WA	Calculation	12/27/2021 10:37	12/27/2021 13:07	1
F2105594012	MCILVAINE	WA	DISRES	12/27/2021 10:37	12/27/2021 13:07	3
F2105594012	MCILVAINE	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 10:37	12/27/2021 13:07	1





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Workorder: MARCO (F2105594)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analyses Reported
F2105594012	MCILVAINE	WA	EPA 180.1	12/27/2021 10:37	12/27/2021 13:07	1
F2105594012	MCILVAINE	WA	EPA 351.2	12/27/2021 10:37	12/27/2021 13:07	1
F2105594012	MCILVAINE	WA	EPA 365.3	12/27/2021 10:37	12/27/2021 13:07	1
F2105594012	MCILVAINE	WA	Field Measurements	12/27/2021 10:37	12/27/2021 13:07	6
F2105594012	MCILVAINE	WA	SM 10200 H	12/27/2021 10:37	12/27/2021 13:07	2
F2105594012	MCILVAINE	WA	SM 4500NO3-F (Low Level)	12/27/2021 10:37	12/27/2021 13:07	3
F2105594013	HUMMINGBIRD	WA	Calculation	12/27/2021 10:54	12/27/2021 13:07	1
F2105594013	HUMMINGBIRD	WA	DISRES	12/27/2021 10:54	12/27/2021 13:07	3
F2105594013	HUMMINGBIRD	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 10:54	12/27/2021 13:07	1
F2105594013	HUMMINGBIRD	WA	EPA 180.1	12/27/2021 10:54	12/27/2021 13:07	1
F2105594013	HUMMINGBIRD	WA	EPA 351.2	12/27/2021 10:54	12/27/2021 13:07	1
F2105594013	HUMMINGBIRD	WA	EPA 365.3	12/27/2021 10:54	12/27/2021 13:07	1
F2105594013	HUMMINGBIRD	WA	Field Measurements	12/27/2021 10:54	12/27/2021 13:07	6
F2105594013	HUMMINGBIRD	WA	SM 10200 H	12/27/2021 10:54	12/27/2021 13:07	2
F2105594013	HUMMINGBIRD	WA	SM 4500NO3-F (Low Level)	12/27/2021 10:54	12/27/2021 13:07	3
F2105594014	HOLLYHOCK	WA	Calculation	12/27/2021 11:05	12/27/2021 13:07	1
F2105594014	HOLLYHOCK	WA	DISRES	12/27/2021 11:05	12/27/2021 13:07	3
F2105594014	HOLLYHOCK	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 11:05	12/27/2021 13:07	1
F2105594014	HOLLYHOCK	WA	EPA 180.1	12/27/2021 11:05	12/27/2021 13:07	1
F2105594014	HOLLYHOCK	WA	EPA 351.2	12/27/2021 11:05	12/27/2021 13:07	1
F2105594014	HOLLYHOCK	WA	EPA 365.3	12/27/2021 11:05	12/27/2021 13:07	1
F2105594014	HOLLYHOCK	WA	Field Measurements	12/27/2021 11:05	12/27/2021 13:07	6
F2105594014	HOLLYHOCK	WA	SM 10200 H	12/27/2021 11:05	12/27/2021 13:07	2
F2105594014	HOLLYHOCK	WA	SM 4500NO3-F (Low Level)	12/27/2021 11:05	12/27/2021 13:07	3
F2105594015	WINDMILL	WA	Calculation	12/27/2021 11:22	12/27/2021 13:07	1
F2105594015	WINDMILL	WA	DISRES	12/27/2021 11:22	12/27/2021 13:07	3
F2105594015	WINDMILL	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 11:22	12/27/2021 13:07	1
F2105594015	WINDMILL	WA	EPA 180.1	12/27/2021 11:22	12/27/2021 13:07	1
F2105594015	WINDMILL	WA	EPA 351.2	12/27/2021 11:22	12/27/2021 13:07	1
F2105594015	WINDMILL	WA	EPA 365.3	12/27/2021 11:22	12/27/2021 13:07	1
F2105594015	WINDMILL	WA	Field Measurements	12/27/2021 11:22	12/27/2021 13:07	6
F2105594015	WINDMILL	WA	SM 10200 H	12/27/2021 11:22	12/27/2021 13:07	2
F2105594015	WINDMILL	WA	SM 4500NO3-F (Low Level)	12/27/2021 11:22	12/27/2021 13:07	3
F2105594016	EQUIPMENT_BLANK	WA	Calculation	12/27/2021 11:52	12/27/2021 13:07	1
F2105594016	EQUIPMENT_BLANK	WA	ENTEROLERT/ QUANTI-TRAY	12/27/2021 11:52	12/27/2021 13:07	1





Advanced Environmental Laboratories, Inc
13100 Westlinks Terrace, Unit 10 Ft. Myers FL 33913
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (239) 674-8130
Fax: (239) 674-8128

FINAL

Workorder: MARCO (F2105594)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
F2105594016	EQUIPMENT_BLANK	WA	EPA 180.1	12/27/2021 11:52	12/27/2021 13:07	1
F2105594016	EQUIPMENT_BLANK	WA	EPA 351.2	12/27/2021 11:52	12/27/2021 13:07	1
F2105594016	EQUIPMENT_BLANK	WA	EPA 365.3	12/27/2021 11:52	12/27/2021 13:07	1
F2105594016	EQUIPMENT_BLANK	WA	SM 10200 H	12/27/2021 11:52	12/27/2021 13:07	2
F2105594016	EQUIPMENT_BLANK	WA	SM 4500NO3-F (Low Level)	12/27/2021 11:52	12/27/2021 13:07	3





FINAL

Workorder: MARCO (F2105594)

Analytical Results Qualifiers

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

Lab Qualifiers

- F DOH Certification #E84492 (FL NELAC) AEL-Ft. Myers
- F^ Not Certified
- G DOH Certification #E82001 (FL NELAC) AEL-Gainesville
- T DOH Certification #E84589 (FL NELAC) AEL-Tampa

Certificate of Analysis

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FINAL

Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594001 **Date Collected:** 12/27/2021 08:10 **Matrix:** Water
Sample ID: BARFIELD_BRIDGE **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 10:58	01/17/2022 10:58	X
Secchi Disc	2	meters			1	01/17/2022 10:58	01/17/2022 10:58	X
Total Depth	3	meters			1	01/17/2022 10:18	01/17/2022 10:18	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	54078	umhos/cm			1	01/17/2022 10:59	01/17/2022 10:59	F
DO Saturation %	83.9	%			1	01/17/2022 10:59	01/17/2022 10:59	F
Dissolved Oxygen	5.99	mg/L			1	01/17/2022 10:59	01/17/2022 10:59	F
Salinity	35.79	ppt			1	01/17/2022 10:59	01/17/2022 10:59	F
Temperature	21.7	°C			1	01/17/2022 10:59	01/17/2022 10:59	F
pH	8.13	SU			1	01/17/2022 10:59	01/17/2022 10:59	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.392	mg/L	0.2	0.12	1	01/18/2022 08:28	01/18/2022 08:28	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.372 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	3	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	12/28/2021 14:12	12/28/2021 14:12	T
Nitrate + Nitrite	0.02	mg/L	0.02	0.010	1	12/28/2021 14:12	12/28/2021 14:12	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:12	12/28/2021 14:12	T





FINAL

Workorder: MARCO (F2105594)

Analytical Results

Analysis Results Comments

Corrected Chlorophyll A

samples F2105594001-16 filtered on 12/28/2021 at 13:23

Total Kjeldahl Nitrogen

J4|Estimated Result

Certificate of Analysis

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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594002 **Date Collected:** 12/27/2021 11:43 **Matrix:** Water
Sample ID: OLDE_MARCO **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 11:30	01/17/2022 11:30	X
Secchi Disc	1.5	meters			1	01/17/2022 11:30	01/17/2022 11:30	X
Total Depth	1.5	meters			1	01/17/2022 11:29	01/17/2022 11:29	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	54209	umhos/cm			1	01/17/2022 11:30	01/17/2022 11:30	F
DO Saturation %	90.5	%			1	01/17/2022 11:30	01/17/2022 11:30	F
Dissolved Oxygen	6.39	mg/L			1	01/17/2022 11:30	01/17/2022 11:30	F
Salinity	35.89	ppt			1	01/17/2022 11:30	01/17/2022 11:30	F
Temperature	22.3	°C			1	01/17/2022 11:30	01/17/2022 11:30	F
pH	8.24	SU			1	01/17/2022 11:30	01/17/2022 11:30	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.12 U	mg/L	0.2	0.12	1	01/18/2022 08:28	01/18/2022 08:28	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.017	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	3.2	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	12/28/2021 14:14	12/28/2021 14:14	T
Nitrate + Nitrite	0.03	mg/L	0.02	0.010	1	12/28/2021 14:14	12/28/2021 14:14	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:14	12/28/2021 14:14	T





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Lab ID: F2105594003 **Date Collected:** 12/27/2021 08:24 **Matrix:** Water
Sample ID: JH_PARK **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 11:35	01/17/2022 11:35	X
Secchi Disc	2	meters			1	01/17/2022 11:36	01/17/2022 11:36	X
Total Depth	3	meters			1	01/17/2022 11:34	01/17/2022 11:34	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	52998	umhos/cm			1	01/17/2022 11:36	01/17/2022 11:36	F
DO Saturation %	92.2	%			1	01/17/2022 11:36	01/17/2022 11:36	F
Dissolved Oxygen	6.53	mg/L			1	01/17/2022 11:36	01/17/2022 11:36	F
Salinity	35.03	ppt			1	01/17/2022 11:36	01/17/2022 11:36	F
Temperature	22.3	°C			1	01/17/2022 11:36	01/17/2022 11:36	F
pH	8.15	SU			1	01/17/2022 11:36	01/17/2022 11:36	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.320	mg/L	0.2	0.12	1	01/18/2022 08:28	01/18/2022 08:28	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.320 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	3	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.020	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.01	mg/L	0.01	0.0060	1	12/28/2021 14:15	12/28/2021 14:15	T
Nitrate + Nitrite	0.01 I	mg/L	0.02	0.010	1	12/28/2021 14:15	12/28/2021 14:15	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:15	12/28/2021 14:15	T





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Lab ID: F2105594004 **Date Collected:** 12/27/2021 08:52 **Matrix:** Water
Sample ID: KENDALL **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 11:40	01/17/2022 11:40	X
Secchi Disc	1	meters			1	01/17/2022 11:41	01/17/2022 11:41	X
Total Depth	1	meters			1	01/17/2022 11:38	01/17/2022 11:38	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	52561	umhos/cm			1	01/17/2022 11:41	01/17/2022 11:41	F
DO Saturation %	58.8	%			1	01/17/2022 11:41	01/17/2022 11:41	F
Dissolved Oxygen	4.17	mg/L			1	01/17/2022 11:41	01/17/2022 11:41	F
Salinity	34.66	ppt			1	01/17/2022 11:41	01/17/2022 11:41	F
Temperature	22.7	°C			1	01/17/2022 11:41	01/17/2022 11:41	F
pH	8.04	SU			1	01/17/2022 11:41	01/17/2022 11:41	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.481	mg/L	0.2	0.12	1	01/18/2022 08:29	01/18/2022 08:29	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.457 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.007 I	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	5.6	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	12/28/2021 14:16	12/28/2021 14:16	T
Nitrate + Nitrite	0.02	mg/L	0.02	0.010	1	12/28/2021 14:16	12/28/2021 14:16	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:16	12/28/2021 14:16	T





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Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2105594005 Date Collected: 12/27/2021 08:35 Matrix: Water								
Sample ID: COLLIER_BRIDGE Date Received: 12/27/2021 13:07								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 11:43	01/17/2022 11:43	X
Secchi Disc	2	meters			1	01/17/2022 11:45	01/17/2022 11:45	X
Total Depth	2.5	meters			1	01/17/2022 11:43	01/17/2022 11:43	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	52745	umhos/cm			1	01/17/2022 11:46	01/17/2022 11:46	F
DO Saturation %	67.1	%			1	01/17/2022 11:46	01/17/2022 11:46	F
Dissolved Oxygen	4.72	mg/L			1	01/17/2022 11:46	01/17/2022 11:46	F
Salinity	34.79	ppt			1	01/17/2022 11:46	01/17/2022 11:46	F
Temperature	22.7	°C			1	01/17/2022 11:46	01/17/2022 11:46	F
pH	8.09	SU			1	01/17/2022 11:46	01/17/2022 11:46	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.343	mg/L	0.2	0.12	1	01/18/2022 08:29	01/18/2022 08:29	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.343 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.9	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.017	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.0	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.01	mg/L	0.01	0.0060	1	12/28/2021 14:16	12/28/2021 14:16	T
Nitrate + Nitrite	0.01 I	mg/L	0.02	0.010	1	12/28/2021 14:16	12/28/2021 14:16	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:16	12/28/2021 14:16	T





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Analytical Results

Lab ID: F2105594006 **Date Collected:** 12/27/2021 09:20 **Matrix:** Water
Sample ID: LANDMARK **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 11:50	01/17/2022 11:50	X
Secchi Disc	2	meters			1	01/17/2022 11:50	01/17/2022 11:50	X
Total Depth	2	feet			1	01/17/2022 11:55	01/17/2022 11:55	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	53598	umhos/cm			1	01/17/2022 11:49	01/17/2022 11:49	F
DO Saturation %	83.8	%			1	01/17/2022 11:49	01/17/2022 11:49	F
Dissolved Oxygen	5.88	mg/L			1	01/17/2022 11:49	01/17/2022 11:49	F
Salinity	35.44	ppt			1	01/17/2022 11:49	01/17/2022 11:49	F
Temperature	22.5	°C			1	01/17/2022 11:49	01/17/2022 11:49	F
pH	8.23	SU			1	01/17/2022 11:49	01/17/2022 11:49	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.619	mg/L	0.2	0.12	1	01/18/2022 08:29	01/18/2022 08:29	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.619	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.023	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	39	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.0060 U	mg/L	0.01	0.0060	1	12/28/2021 14:17	12/28/2021 14:17	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	12/28/2021 14:17	12/28/2021 14:17	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:17	12/28/2021 14:17	T





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Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2105594007 Date Collected: 12/27/2021 09:28 Matrix: Water								
Sample ID: LANDMARK_DUP Date Received: 12/27/2021 13:07								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 11:59	01/17/2022 11:59	X
Secchi Disc	2	meters			1	01/17/2022 11:59	01/17/2022 11:59	X
Total Depth	2	meters			1	01/17/2022 11:57	01/17/2022 11:57	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	53608	umhos/cm			1	01/17/2022 11:59	01/17/2022 11:59	F
DO Saturation %	83.6	%			1	01/17/2022 11:59	01/17/2022 11:59	F
Dissolved Oxygen	5.85	mg/L			1	01/17/2022 11:59	01/17/2022 11:59	F
Salinity	35.44	ppt			1	01/17/2022 11:59	01/17/2022 11:59	F
Temperature	22.5	°C			1	01/17/2022 11:59	01/17/2022 11:59	F
pH	8.23	SU			1	01/17/2022 11:59	01/17/2022 11:59	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.736	mg/L	0.2	0.12	1	01/18/2022 08:35	01/18/2022 08:35	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.736	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.069	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	38	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	3.0	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.0060 U	mg/L	0.01	0.0060	1	12/28/2021 14:18	12/28/2021 14:18	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	12/28/2021 14:18	12/28/2021 14:18	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:18	12/28/2021 14:18	T





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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594008 **Date Collected:** 12/27/2021 09:40 **Matrix:** Water
Sample ID: HC_CENTER **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:04	01/17/2022 12:04	X
Secchi Disc	1	meters			1	01/17/2022 12:04	01/17/2022 12:04	X
Total Depth	1	meters			1	01/17/2022 12:03	01/17/2022 12:03	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	52486	umhos/cm			1	01/17/2022 12:04	01/17/2022 12:04	F
DO Saturation %	82.6	%			1	01/17/2022 12:04	01/17/2022 12:04	F
Dissolved Oxygen	5.71	mg/L			1	01/17/2022 12:04	01/17/2022 12:04	F
Salinity	34.6	ppt			1	01/17/2022 12:04	01/17/2022 12:04	F
Temperature	23.3	°C			1	01/17/2022 12:04	01/17/2022 12:04	F
pH	8.17	SU			1	01/17/2022 12:04	01/17/2022 12:04	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.382	mg/L	0.2	0.12	1	01/18/2022 08:44	01/18/2022 08:44	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.382 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.023	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	3.2	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.006 I	mg/L	0.01	0.0060	1	12/28/2021 14:19	12/28/2021 14:19	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	12/28/2021 14:19	12/28/2021 14:19	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:19	12/28/2021 14:19	T





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FINAL

Workorder: MARCO (F2105594)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2105594009 Date Collected: 12/27/2021 10:00 Matrix: Water								
Sample ID: SWALLOW Date Received: 12/27/2021 13:07								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:08	01/17/2022 12:08	X
Secchi Disc	1	meters			1	01/17/2022 12:08	01/17/2022 12:08	X
Total Depth	2	meters			1	01/17/2022 12:07	01/17/2022 12:07	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51439	umhos/cm			1	01/17/2022 12:09	01/17/2022 12:09	F
DO Saturation %	49.5	%			1	01/17/2022 12:09	01/17/2022 12:09	F
Dissolved Oxygen	3.5	mg/L			1	01/17/2022 12:09	01/17/2022 12:09	F
Salinity	33.84	ppt			1	01/17/2022 12:09	01/17/2022 12:09	F
Temperature	23.1	°C			1	01/17/2022 12:09	01/17/2022 12:09	F
pH	8	SU			1	01/17/2022 12:09	01/17/2022 12:09	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.507	mg/L	0.2	0.12	1	01/18/2022 08:45	01/18/2022 08:45	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.485 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	3	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.007 I	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	12/28/2021 14:19	12/28/2021 14:19	T
Nitrate + Nitrite	0.02	mg/L	0.02	0.010	1	12/28/2021 14:19	12/28/2021 14:19	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:19	12/28/2021 14:19	T





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Workorder: MARCO (F2105594)

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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594010 **Date Collected:** 12/27/2021 10:14 **Matrix:** Water
Sample ID: W_WINTERBERRY_BRID **Date Received:** 12/27/2021 13:07
 GE

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:15	01/17/2022 12:15	X
Secchi Disc	1	meters			1	01/17/2022 12:15	01/17/2022 12:15	X
Total Depth	1	meters			1	01/17/2022 12:14	01/17/2022 12:14	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	53259	umhos/cm			1	01/17/2022 12:15	01/17/2022 12:15	F
DO Saturation %	74.6	%			1	01/17/2022 12:15	01/17/2022 12:15	F
Dissolved Oxygen	6.06	mg/L			1	01/17/2022 12:15	01/17/2022 12:15	F
Salinity	35.16	ppt			1	01/17/2022 12:15	01/17/2022 12:15	F
Temperature	22.4	°C			1	01/17/2022 12:15	01/17/2022 12:15	F
pH	8.23	SU			1	01/17/2022 12:15	01/17/2022 12:15	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.480	mg/L	0.2	0.12	1	01/18/2022 08:45	01/18/2022 08:45	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.461 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.017	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	12/28/2021 14:20	12/28/2021 14:20	T
Nitrate + Nitrite	0.02 I	mg/L	0.02	0.010	1	12/28/2021 14:20	12/28/2021 14:20	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:20	12/28/2021 14:20	T





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Workorder: MARCO (F2105594)

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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594011 **Date Collected:** 12/27/2021 10:24 **Matrix:** Water
Sample ID: E_WINTERBERRY_BRID **Date Received:** 12/27/2021 13:07
 GE

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:18	01/17/2022 12:18	X
Secchi Disc	1.5	meters			1	01/17/2022 12:18	01/17/2022 12:18	X
Total Depth	1.5	meters			1	01/17/2022 12:17	01/17/2022 12:17	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	53488	umhos/cm			1	01/17/2022 12:18	01/17/2022 12:18	F
DO Saturation %	69.9	%			1	01/17/2022 12:18	01/17/2022 12:18	F
Dissolved Oxygen	4.9	mg/L			1	01/17/2022 12:18	01/17/2022 12:18	F
Salinity	35.35	ppt			1	01/17/2022 12:18	01/17/2022 12:18	F
Temperature	22.5	°C			1	01/17/2022 12:18	01/17/2022 12:18	F
pH	8.16	SU			1	01/17/2022 12:18	01/17/2022 12:18	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.365	mg/L	0.2	0.12	1	01/18/2022 08:45	01/18/2022 08:45	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.323 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.020	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.04	mg/L	0.01	0.0060	1	12/28/2021 14:27	12/28/2021 14:27	T
Nitrate + Nitrite	0.04	mg/L	0.02	0.010	1	12/28/2021 14:27	12/28/2021 14:27	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:27	12/28/2021 14:27	T





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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594012 **Date Collected:** 12/27/2021 10:37 **Matrix:** Water
Sample ID: MCILVAINE **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:21	01/17/2022 12:21	X
Secchi Disc	1	meters			1	01/17/2022 12:22	01/17/2022 12:22	X
Total Depth	1.5	meters			1	01/17/2022 12:21	01/17/2022 12:21	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	53994	umhos/cm			1	01/17/2022 12:22	01/17/2022 12:22	F
DO Saturation %	70.2	%			1	01/17/2022 12:22	01/17/2022 12:22	F
Dissolved Oxygen	4.96	mg/L			1	01/17/2022 12:22	01/17/2022 12:22	F
Salinity	35.74	ppt			1	01/17/2022 12:22	01/17/2022 12:22	F
Temperature	22.1	°C			1	01/17/2022 12:22	01/17/2022 12:22	F
pH	8.2	SU			1	01/17/2022 12:22	01/17/2022 12:22	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.543	mg/L	0.2	0.12	1	01/18/2022 08:46	01/18/2022 08:46	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.518	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.028	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	12/28/2021 14:29	12/28/2021 14:29	T
Nitrate + Nitrite	0.02	mg/L	0.02	0.010	1	12/28/2021 14:29	12/28/2021 14:29	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:29	12/28/2021 14:29	T





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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594013 **Date Collected:** 12/27/2021 10:54 **Matrix:** Water
Sample ID: HUMMINGBIRD **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:24	01/17/2022 12:24	X
Secchi Disc	1	meters			1	01/17/2022 12:24	01/17/2022 12:24	X
Total Depth	1	meters			1	01/17/2022 12:24	01/17/2022 12:24	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	52950	umhos/cm			1	01/17/2022 12:25	01/17/2022 12:25	F
DO Saturation %	66.6	%			1	01/17/2022 12:25	01/17/2022 12:25	F
Dissolved Oxygen	4.69	mg/L			1	01/17/2022 12:25	01/17/2022 12:25	F
Salinity	34.96	ppt			1	01/17/2022 12:25	01/17/2022 12:25	F
Temperature	22.7	°C			1	01/17/2022 12:25	01/17/2022 12:25	F
pH	8.1	SU			1	01/17/2022 12:25	01/17/2022 12:25	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.557	mg/L	0.2	0.12	1	01/18/2022 08:51	01/18/2022 08:51	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.539	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	5.6	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	12/28/2021 14:30	12/28/2021 14:30	T
Nitrate + Nitrite	0.02 I	mg/L	0.02	0.010	1	12/28/2021 14:30	12/28/2021 14:30	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:30	12/28/2021 14:30	T





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Workorder: MARCO (F2105594)

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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594014 **Date Collected:** 12/27/2021 11:05 **Matrix:** Water
Sample ID: HOLLYHOCK **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:27	01/17/2022 12:27	X
Secchi Disc	1	meters			1	01/17/2022 12:27	01/17/2022 12:27	X
Total Depth	1	meters			1	01/17/2022 12:26	01/17/2022 12:26	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	54054	umhos/cm			1	01/17/2022 12:27	01/17/2022 12:27	F
DO Saturation %	84.6	%			1	01/17/2022 12:27	01/17/2022 12:27	F
Dissolved Oxygen	5.97	mg/L			1	01/17/2022 12:27	01/17/2022 12:27	F
Salinity	35.79	ppt			1	01/17/2022 12:27	01/17/2022 12:27	F
Temperature	22.2	°C			1	01/17/2022 12:27	01/17/2022 12:27	F
pH	8.27	SU			1	01/17/2022 12:27	01/17/2022 12:27	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.369	mg/L	0.2	0.12	1	01/18/2022 08:52	01/18/2022 08:52	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.369 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.012	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.0060 U	mg/L	0.01	0.0060	1	12/28/2021 14:31	12/28/2021 14:31	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	12/28/2021 14:31	12/28/2021 14:31	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:31	12/28/2021 14:31	T





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Workorder: MARCO (F2105594)

Analytical Results

Lab ID: F2105594015 **Date Collected:** 12/27/2021 11:22 **Matrix:** Water
Sample ID: WINDMILL **Date Received:** 12/27/2021 13:07

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	01/17/2022 12:30	01/17/2022 12:30	X
Secchi Disc	1	meters			1	01/17/2022 12:30	01/17/2022 12:30	X
Total Depth	2	meters			1	01/17/2022 12:29	01/17/2022 12:29	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	53591	umhos/cm			1	01/17/2022 12:30	01/17/2022 12:30	F
DO Saturation %	83.7	%			1	01/17/2022 12:30	01/17/2022 12:30	F
Dissolved Oxygen	5.92	mg/L			1	01/17/2022 12:30	01/17/2022 12:30	F
Salinity	35.44	ppt			1	01/17/2022 12:30	01/17/2022 12:30	F
Temperature	22.5	°C			1	01/17/2022 12:30	01/17/2022 12:30	F
pH	8.23	SU			1	01/17/2022 12:30	01/17/2022 12:30	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10	MPN/100 mL	10	10	10	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.415	mg/L	0.2	0.12	1	01/18/2022 08:52	01/18/2022 08:52	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.415 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.8	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.01	mg/L	0.01	0.0060	1	12/28/2021 14:31	12/28/2021 14:31	T
Nitrate + Nitrite	0.01 I	mg/L	0.02	0.010	1	12/28/2021 14:31	12/28/2021 14:31	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:31	12/28/2021 14:31	T





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Phone: (239) 674-8130
Fax: (239) 674-8128

FINAL

Workorder: MARCO (F2105594)

Analytical Results

Certificate of Analysis

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FINAL

Workorder: MARCO (F2105594)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2105594016 Date Collected: 12/27/2021 11:52 Matrix: Water								
Sample ID: EQUIPMENT_BLANK Date Received: 12/27/2021 13:07								
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	1 U	MPN/100 mL	1	1	1	12/27/2021 16:03	12/27/2021 16:03	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.217	mg/L	0.2	0.12	1	01/18/2022 08:52	01/18/2022 08:52	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.217 I	mg/L	0.5	0.20	1	01/04/2022 16:55	01/05/2022 13:38	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.10 U	NTU	0.1	0.10	1	12/28/2021 11:45	12/28/2021 11:45	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	1	12/29/2021 13:14	12/30/2021 10:05	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	12/30/2021 10:30	12/30/2021 10:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.0060 U	mg/L	0.01	0.0060	1	12/28/2021 14:32	12/28/2021 14:32	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	12/28/2021 14:32	12/28/2021 14:32	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	12/28/2021 14:32	12/28/2021 14:32	T





FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAf/1863 **Analysis Method:** EPA 180.1
Preparation Method: EPA 180.1
Associated Lab IDs: F2105594001, F2105594002, F2105594003, F2105594004, F2105594005, F2105594006, F2105594007, F2105594008, F2105594009, F2105594010, F2105594011, F2105594012, F2105594013, F2105594014, F2105594015, F2105594016

Method Blank(4150694)

Parameter	Results	Units	PQL	MDL	Lab
Turbidity	0.10 U	NTU	0.10	0.10	F





FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAg/4961 Analysis Method: EPA 365.3
Preparation Method: EPA 365.3
Associated Lab IDs: F2105594001, F2105594002, F2105594003, F2105594004, F2105594005, F2105594006, F2105594007

Method Blank(4153294)

Parameter	Results	Units	PQL	MDL	Lab
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	G

Method Blank(4153300)

Parameter	Results	Units	PQL	MDL	Lab
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	G

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 Fax: (239) 674-8128

FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAg/4965 **Analysis Method:** EPA 365.3
Preparation Method: EPA 365.3
Associated Lab IDs: F2105594008, F2105594009, F2105594010, F2105594011, F2105594012, F2105594013, F2105594014, F2105594015, F2105594016

Method Blank(4153359)

Parameter	Results	Units	PQL	MDL	Lab
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	G

Method Blank(4153365)

Parameter	Results	Units	PQL	MDL	Lab
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	G





FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAg/5024
Preparation Method: Copper Sulfate Digestion
Associated Lab IDs: F2105594001

Analysis Method: EPA 351.2

Method Blank(4158607)

Parameter	Results	Units	PQL	MDL	Lab
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.50	0.20	G





FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAg/5025
Preparation Method: Copper Sulfate Digestion
Associated Lab IDs: F2105594001

Analysis Method: EPA 365.4

Method Blank(4158608)

Parameter	Results	Units	PQL	MDL	Lab
Total Phosphorus (as P)	0.50 U	mg/L	1.0	0.50	G

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FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAg/5026 **Analysis Method:** EPA 351.2
Preparation Method: Copper Sulfate Digestion
Associated Lab IDs: F2105594002, F2105594003, F2105594004, F2105594005, F2105594006, F2105594007, F2105594008, F2105594009, F2105594010, F2105594011, F2105594012, F2105594013, F2105594014, F2105594015, F2105594016

Method Blank(4158644)

Parameter	Results	Units	PQL	MDL	Lab
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.50	0.20	G





FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAI/9302 **Analysis Method:** SM 4500NO3-F (Low Level)
Preparation Method: SM 4500NO3-F (Low Level)
Associated Lab IDs: F2105594001, F2105594002, F2105594003, F2105594004, F2105594005, F2105594006, F2105594007, F2105594008, F2105594009, F2105594010

Method Blank(4150908)

Parameter	Results	Units	PQL	MDL	Lab
Nitrite (as N)	0.0080 U	mg/L	0.010	0.0080	T
Nitrate + Nitrite	0.010 U	mg/L	0.020	0.010	T
Nitrate (as N)	0.0060 U	mg/L	0.010	0.0060	T





FINAL

Workorder: MARCO (F2105594)

QC Results

QC Batch: WCAI/9303 **Analysis Method:** SM 4500NO3-F (Low Level)
Preparation Method: SM 4500NO3-F (Low Level)
Associated Lab IDs: F2105594011, F2105594012, F2105594013, F2105594014, F2105594015, F2105594016

Method Blank(4150917)

Parameter	Results	Units	PQL	MDL	Lab
Nitrite (as N)	0.0080 U	mg/L	0.010	0.0080	T
Nitrate + Nitrite	0.010 U	mg/L	0.020	0.010	T
Nitrate (as N)	0.0060 U	mg/L	0.010	0.0060	T

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Workorder: MARCO (F2105594)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
MICf/1548 - ENTEROLERT/ QUANTI-TRAY			
F2105594001	BARFIELD_BRIDGE		
F2105594002	OLDE_MARCO		
F2105594003	JH_PARK		
F2105594004	KENDALL		
F2105594005	COLLIER_BRIDGE		
F2105594006	LANDMARK		
F2105594007	LANDMARK_DUP		
F2105594008	HC_CENTER		
F2105594009	SWALLOW		
F2105594010	W_WINTERBERRY_BRIDGE		
F2105594011	E_WINTERBERRY_BRIDGE		
F2105594012	MCILVAINE		
F2105594013	HUMMINGBIRD		
F2105594014	HOLLYHOCK		
F2105594015	WINDMILL		
F2105594016	EQUIPMENT_BLANK		
WCAf/1863 - EPA 180.1			
F2105594001	BARFIELD_BRIDGE		
F2105594002	OLDE_MARCO		
F2105594003	JH_PARK		
F2105594004	KENDALL		
F2105594005	COLLIER_BRIDGE		
F2105594006	LANDMARK		
F2105594007	LANDMARK_DUP		
F2105594008	HC_CENTER		
F2105594009	SWALLOW		
F2105594010	W_WINTERBERRY_BRIDGE		
F2105594011	E_WINTERBERRY_BRIDGE		
F2105594012	MCILVAINE		
F2105594013	HUMMINGBIRD		
F2105594014	HOLLYHOCK		
F2105594015	WINDMILL		
F2105594016	EQUIPMENT_BLANK		

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Workorder: MARCO (F2105594)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAg/4955 - SM 10200 H			
F2105594001	BARFIELD_BRIDGE		
F2105594002	OLDE_MARCO		
F2105594003	JH_PARK		
F2105594004	KENDALL		
F2105594005	COLLIER_BRIDGE		
F2105594006	LANDMARK		
F2105594007	LANDMARK_DUP		
F2105594008	HC_CENTER		
F2105594009	SWALLOW		
F2105594010	W_WINTERBERRY_BRIDGE		
F2105594011	E_WINTERBERRY_BRIDGE		
F2105594012	MCILVAINE		
F2105594013	HUMMINGBIRD		
F2105594014	HOLLYHOCK		
F2105594015	WINDMILL		
F2105594016	EQUIPMENT_BLANK		

Batch Comments

filters extracted 12/30/21 08:15

WCAg/4961 - EPA 365.3

F2105594001	BARFIELD_BRIDGE	WCAg/4960	EPA 365.3
F2105594002	OLDE_MARCO	WCAg/4960	EPA 365.3
F2105594003	JH_PARK	WCAg/4960	EPA 365.3
F2105594004	KENDALL	WCAg/4960	EPA 365.3
F2105594005	COLLIER_BRIDGE	WCAg/4960	EPA 365.3
F2105594006	LANDMARK	WCAg/4960	EPA 365.3
F2105594007	LANDMARK_DUP	WCAg/4960	EPA 365.3

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Workorder: MARCO (F2105594)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAg/4965 - EPA 365.3			
F2105594008	HC_CENTER	WCAg/4964	EPA 365.3
F2105594009	SWALLOW	WCAg/4964	EPA 365.3
F2105594010	W_WINTERBERRY_BRIDGE	WCAg/4964	EPA 365.3
F2105594011	E_WINTERBERRY_BRIDGE	WCAg/4964	EPA 365.3
F2105594012	MCILVAINE	WCAg/4964	EPA 365.3
F2105594013	HUMMINGBIRD	WCAg/4964	EPA 365.3
F2105594014	HOLLYHOCK	WCAg/4964	EPA 365.3
F2105594015	WINDMILL	WCAg/4964	EPA 365.3
F2105594016	EQUIPMENT_BLANK	WCAg/4964	EPA 365.3
WCAg/5024 - EPA 351.2			
F2105594001	BARFIELD_BRIDGE	WCAg/5004	Copper Sulfate Digestion
WCAg/5026 - EPA 351.2			
F2105594002	OLDE_MARCO	WCAg/5005	Copper Sulfate Digestion
F2105594003	JH_PARK	WCAg/5005	Copper Sulfate Digestion
F2105594004	KENDALL	WCAg/5005	Copper Sulfate Digestion
F2105594005	COLLIER_BRIDGE	WCAg/5005	Copper Sulfate Digestion
F2105594006	LANDMARK	WCAg/5005	Copper Sulfate Digestion
F2105594007	LANDMARK_DUP	WCAg/5005	Copper Sulfate Digestion
F2105594008	HC_CENTER	WCAg/5005	Copper Sulfate Digestion
F2105594009	SWALLOW	WCAg/5005	Copper Sulfate Digestion
F2105594010	W_WINTERBERRY_BRIDGE	WCAg/5005	Copper Sulfate Digestion
F2105594011	E_WINTERBERRY_BRIDGE	WCAg/5005	Copper Sulfate Digestion
F2105594012	MCILVAINE	WCAg/5005	Copper Sulfate Digestion
F2105594013	HUMMINGBIRD	WCAg/5005	Copper Sulfate Digestion
F2105594014	HOLLYHOCK	WCAg/5005	Copper Sulfate Digestion
F2105594015	WINDMILL	WCAg/5005	Copper Sulfate Digestion
F2105594016	EQUIPMENT_BLANK	WCAg/5005	Copper Sulfate Digestion





FINAL

Workorder: MARCO (F2105594)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCA1/9302 - SM 4500NO3-F (Low Level)			
F2105594001	BARFIELD_BRIDGE		
F2105594002	OLDE_MARCO		
F2105594003	JH_PARK		
F2105594004	KENDALL		
F2105594005	COLLIER_BRIDGE		
F2105594006	LANDMARK		
F2105594007	LANDMARK_DUP		
F2105594008	HC_CENTER		
F2105594009	SWALLOW		
F2105594010	W_WINTERBERRY_BRIDGE		
WCA1/9303 - SM 4500NO3-F (Low Level)			
F2105594011	E_WINTERBERRY_BRIDGE		
F2105594012	MCILVAINE		
F2105594013	HUMMINGBIRD		
F2105594014	HOLLYHOCK		
F2105594015	WINDMILL		
F2105594016	EQUIPMENT_BLANK		





Work Order: F2105594
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 recovery of TKN for A2111282001 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Matrix Spike Duplicate (MSD) 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.

The matrix spike duplicate recovery of TKN for F2105594001 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:



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The relative percent difference (RPD) for the following analyte(s) in the replicate matrix spike analyses of A2111282001 was outside control criteria: TKN. Failing RPD indicates inconsistency in the parent sample matrix. All spike recoveries in the associated LCS were within acceptable limits, indicating the analytical batch was in control. No further corrective action was needed.

The relative percent difference (RPD) for the following analyte(s) in the replicate matrix spike analyses of F2105594001 was outside control criteria: TKN. Failing RPD indicates inconsistency in the parent sample matrix. All spike recoveries in the associated LCS were within acceptable limits, indicating the analytical batch was in control. No further corrective action was needed.



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 Fort Myers: 13100 Westlaks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
 Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
 Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095

Gainesville: 4665 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
 Miramar: 10200 USA Today Way, FL 33025 • 954.899.2288 • Lab ID: E82535
 Tampa: 5610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E94569

Client Name: City of Marco Island		Project Name: MARCO	
Address: 50 Bald Eagle Dr. Marco Island, FL 314145		Project Number:	
Phone: 239-300-1462		FDEP Facility No:	
FAX:		FDEP Facility Addr:	
Contact: Jason Tomasesetti		Special Instructions:	
Sampled By: P. Manard		ADAPT	
Turn Around Time: Standard <input checked="" type="checkbox"/> Rush		EQUIS	
AEL Profile #: 65884		Other	
SAMPLE ID		SAMPLE DESCRIPTION	
		Grab Comp	NO. COUNT
BARFIELD_BRIDGE		Grab	4
OLDE_MARCO		Grab	4
JH_PARK		Grab	4
KENDALL		Grab	4
COLLIER_BRIDGE		Grab	4
LANDMARK		Grab	4
LANDMARK_DUP		Grab	4
HC_CENTER		Grab	4
SWALLOW		Grab	4
W_WINTERBERRY_BRIDGE		Grab	4

SAMPLE ID	DATE	TIME	MATRIX	NO. COUNT	ANALYSIS REQUIRED			
					NO2/NO3	TKN/TP/TN	Chlor-A/Turbidity	Enterococ
001	12/27	08:10	SW	4	X	X	X	X
002		11:43	SW	4	X	X	X	X
003		08:24	SW	4	X	X	X	X
004		08:52	SW	4	X	X	X	X
005		08:35	SW	4	X	X	X	X
006		09:20	SW	4	X	X	X	X
007		09:28	SW	4	X	X	X	X
008		09:40	SW	4	X	X	X	X
009		10:00	SW	4	X	X	X	X
010		10:14	SW	4	X	X	X	X

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

Relinquished by: Brian Miller Date: 12/27/11 Time: 11:05 Received by: Brian Miller Date: 12/27/11 Time: 13:12

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

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

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

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



LABORATORY I.D. NUMBER



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 Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
 Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095

Gainesville: 4665 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
 Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
 Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9816 • Lab ID: E94589

F2105594

Client Name: City of Marco Island		Project Name: MARCO	
Address: 50 Bald Eagle Dr.		Project Number:	
Marco Island, FL 3141445		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		ADAPT	
Turn Around Time: Standard X Rush		EQUIS	
AEL Profile #: 658884		Other	
SAMPLE ID		WIN	
SAMPLE DESCRIPTION		NO. COUNT	
E_WINTERBERRY_BRIDGE	Grab	12/27	10:24
MCILVAINE	Grab	10:37	SW
HUMMINGBIRD	Grab	10:54	SW
HOLLYHOCK	Grab	11:05	SW
WINDMILL	Grab	11:22	SW
EQUIPMENT_BLANK	Grab	11:52	SW
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 checked="" type="checkbox"/> Where required, pH checked		Temp, when received (observed) 7.9 °C Temp, when received (corrected) 7.9 °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: <u>Brian Miller</u> Date: <u>12/21/11</u> Time: <u>11:05</u>		Received by: <u>Brian Miller</u> Date: <u>12/27/11</u> Time: <u>13:12</u>	
1		2	
2		3	
3		4	
4			

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**

Water Sample Parameters

SAMPLE LOCATION	BARFIELD BRIDGE	BARFIELD BRIDGE	OLDE MARCO	OLDE MARCO	JH PARK	JH PARK	KENDALL	KENDALL
SAMPLE TIME	08:10	08:14	11:43	11:48	08:24	08:28	08:52	08:55
SAMPLE DEPTH	0.30m top	2.5	0.30m top	1.0	0.30m top	2.5	0.30m top	0.5
TOTAL DEPTH	3.0	3.0	1.5	1.5	3.0	3.0	1.0	1.0
TEMP /C	21.7	21.8	22.3	22.3	22.3	22.3	22.7	22.7
D.O. mg / L	5.99	5.97	6.39	6.25	6.53	6.44	4.17	4.85
D.O. % sat.	83.9	84.2	90.5	89.1	92.2	90.8	58.8	67.8
CONDUCTIVITY(umhos)	54,078	54,144	54,209	54,175	52,998	53,060	52,561	52,581
SALINITY ppt.	35.79	35.85	35.89	35.89	35.03	35.12	34.66	34.68
pH su.	8.13	8.18	8.24	8.24	8.15	8.16	8.04	8.06
SECCHI DEPTH	2.0	2.0	1.5	1.5	2.0	2.0	1.0	1.0

FIELD COMMENTS:

WEATHER :

DEG F

DEG F

DEG F

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

Brian Miller

Date

12/27/21


AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES

Advanced Environmental Laboratories, Inc

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

Water Sample Parameters								
SAMPLE LOCATION	COLLIER BRIDGE	COLLIER BRIDGE	LANDMARK	LANDMARK	LANDMARK DUP	LANDMARK DUP	HC CENTER	HC CENTER
SAMPLE TIME	08:35	08:38	09:20	09:24	09:28	09:30	09:40	09:45
SAMPLE DEPTH	0.30m top	2.0	0.30m top	1.5	0.30m top	1.5	0.30m top	0.5
TOTAL DEPTH	2.5	2.5	2.0	2.0	2.0	2.0	1.0	1.0
TEMP /C	22.7	22.9	22.5	22.5	22.5	22.5	23.2	23.1
D.O. mg / L	4.72	65.4	5.88	5.76	5.85	5.72	5.71	5.81
D.O. % sat.	67.1	4.59	83.8	82.4	83.6	82.1	82.6	83.7
CONDUCTIVITY(umhos)	52,745	53,349	53,598	53,609	53,608	53,612	52,486	52,565
SALINITY ppt.	34.79	35.24	35.44	35.45	35.44	35.45	34.60	34.66
pH su.	8.09	8.10	8.23	8.25	8.23	8.24	8.17	8.17
SECCHI DEPTH	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0

FIELD COMMENTS:								
WEATHER :	DEG F		DEG F		DEG F		DEG F	
FIELD EQUIP. USED: ID # :	VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X	

Authentication			
SAMPLED BY: (PRINT) /	/ AEL		
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES	Sampler's Signature		Date
			12/27/21

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
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Water Sample Parameters								
SAMPLE LOCATION	SWALLOW	SWALLOW	WEST WB BRIDGE	WEST WB BRIDGE	EAST WB BRIDGE	EAST WB BRIDGE	MCILVAINE	MCILVAINE
SAMPLE TIME	10:00	10:04	10:14	10:18	10:24	10:28	10:37	10:40
SAMPLE DEPTH	0.30m top	1.5	0.30m top	0.5	0.30m top	1.0	0.30m top	1.0
TOTAL DEPTH	2.0	2.0	1.0	1.0	1.5	1.5	1.5	1.5
TEMP /C	23.1	22.4	22.4	22.5	22.5	22.5	22.1	22.1
D.O. mg / L	3.50	2.87	6.06	5.53	4.90	5.21	4.96	5.31
D.O. % sat.	49.5	41.1	74.6	77.5	69.9	74.4	70.2	75.1
CONDUCTIVITY(umhos)	51,439	54,138	53,259	53,632	53,488	53,782	53,994	54,350
SALINITY ppt.	33.84	35.89	35.16	35.46	35.35	35.58	35.74	36.00
pH su.	8.00	8.05	8.23	8.27	8.16	8.18	8.20	8.24
SECCHI DEPTH	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0

FIELD COMMENTS:								
WEATHER :	DEG F		DEG F		DEG F		DEG F	
FIELD EQUIP. USED: ID # :	VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X	

Authentication			
SAMPLED BY: (PRINT) /	/ AEL		
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES	Sampler's Signature	<i>Brian Miller</i>	Date
			12/27/21

Advanced Environmental Laboratories, Inc

Client Name:	CITY OF MARCO ISLAND	Site Name:	MARCO ISLAND WATERWAYS
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Water Sample Parameters								
SAMPLE LOCATION	HUMMING BIRD	HUMMING BIRD	HOLLY HOCK	HOLLY HOCK	WINDMILL	WINDMILL	EQUIP BLANK	
SAMPLE TIME	10:54	10:58	11:05	11:09	11:22	11:25	11:52	
SAMPLE DEPTH	0.30m top	0.5	0.30m top	0.5	0.30m top	1.5	NA	
TOTAL DEPTH	1.0	1.0	1.0	1.0	2.0	2.0	NA	
TEMP /C	22.7	22.8	22.2	22.3	22.5	22.4	NA	
D.O. mg / L	4.69	5.65	5.97	5.90	5.92	6.05	NA	
D.O. % sat.	66.6	80.6	84.6	83.8	83.7	86.1	NA	
CONDUCTIVITY(umhos)	52,950	53,178	54,054	54,172	53,591	53,880	NA	
SALINITY ppt.	34.96	35.12	35.79	35.86	35.44	35.65	NA	
pH su.	8.10	8.14	8.27	8.27	8.23	8.22	NA	
SECCHI DEPTH	1.0	1.0	1.0	1.0	1.0	1.0	NA	

FIELD COMMENTS:								NA
WEATHER :	DEG F		DEG F		DEG F		DEG F	
FIELD EQUIP. USED: ID # :	VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X		VAN DORN / F3X	

Authentication			
SAMPLED BY: (PRINT) /	/ AEL	Sampler's Signature	Date
AFFILIATION: / ADVANCED ENVIRONMENTAL LABORATORIES		<i>Brain Miller</i>	12/27/21