



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
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Workorder: MARCO (F2104947)

December 02, 2021

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

RE: Workorder: F2104947 MARCO

Dear Jason Tomassetti:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday November 11, 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,

A handwritten signature in black ink that reads "Josh Snead". The signature is fluid and cursive, with a large initial 'J'.

Josh Snead, Laboratory Manager
JSnead@aellab.com

Certificate of Analysis

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Workorder: MARCO (F2104947)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analyses Reported
F2104947001	BARFIELD_BRIDGE	WA	Calculation	11/11/2021 07:00	11/11/2021 12:00	1
F2104947001	BARFIELD_BRIDGE	WA	DISRES	11/11/2021 07:00	11/11/2021 12:00	3
F2104947001	BARFIELD_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 07:00	11/11/2021 12:00	1
F2104947001	BARFIELD_BRIDGE	WA	EPA 180.1	11/11/2021 07:00	11/11/2021 12:00	1
F2104947001	BARFIELD_BRIDGE	WA	EPA 351.2	11/11/2021 07:00	11/11/2021 12:00	1
F2104947001	BARFIELD_BRIDGE	WA	EPA 365.3	11/11/2021 07:00	11/11/2021 12:00	1
F2104947001	BARFIELD_BRIDGE	WA	Field Measurements	11/11/2021 07:00	11/11/2021 12:00	6
F2104947001	BARFIELD_BRIDGE	WA	SM 10200 H	11/11/2021 07:00	11/11/2021 12:00	2
F2104947001	BARFIELD_BRIDGE	WA	SM 4500NO3-F (Low Level)	11/11/2021 07:00	11/11/2021 12:00	3
F2104947002	OLDE_MARCO	WA	Calculation	11/11/2021 07:18	11/11/2021 12:00	1
F2104947002	OLDE_MARCO	WA	DISRES	11/11/2021 07:18	11/11/2021 12:00	3
F2104947002	OLDE_MARCO	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 07:18	11/11/2021 12:00	1
F2104947002	OLDE_MARCO	WA	EPA 180.1	11/11/2021 07:18	11/11/2021 12:00	1
F2104947002	OLDE_MARCO	WA	EPA 351.2	11/11/2021 07:18	11/11/2021 12:00	1
F2104947002	OLDE_MARCO	WA	EPA 365.3	11/11/2021 07:18	11/11/2021 12:00	1
F2104947002	OLDE_MARCO	WA	Field Measurements	11/11/2021 07:18	11/11/2021 12:00	6
F2104947002	OLDE_MARCO	WA	SM 10200 H	11/11/2021 07:18	11/11/2021 12:00	2
F2104947002	OLDE_MARCO	WA	SM 4500NO3-F (Low Level)	11/11/2021 07:18	11/11/2021 12:00	3
F2104947003	JH_PARK	WA	Calculation	11/11/2021 07:30	11/11/2021 12:00	1
F2104947003	JH_PARK	WA	DISRES	11/11/2021 07:30	11/11/2021 12:00	3
F2104947003	JH_PARK	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 07:30	11/11/2021 12:00	1
F2104947003	JH_PARK	WA	EPA 180.1	11/11/2021 07:30	11/11/2021 12:00	1
F2104947003	JH_PARK	WA	EPA 351.2	11/11/2021 07:30	11/11/2021 12:00	1
F2104947003	JH_PARK	WA	EPA 365.3	11/11/2021 07:30	11/11/2021 12:00	1
F2104947003	JH_PARK	WA	Field Measurements	11/11/2021 07:30	11/11/2021 12:00	6
F2104947003	JH_PARK	WA	SM 10200 H	11/11/2021 07:30	11/11/2021 12:00	2
F2104947003	JH_PARK	WA	SM 4500NO3-F (Low Level)	11/11/2021 07:30	11/11/2021 12:00	3
F2104947004	KENDALL	WA	Calculation	11/11/2021 07:42	11/11/2021 12:00	1
F2104947004	KENDALL	WA	DISRES	11/11/2021 07:42	11/11/2021 12:00	3
F2104947004	KENDALL	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 07:42	11/11/2021 12:00	1
F2104947004	KENDALL	WA	EPA 180.1	11/11/2021 07:42	11/11/2021 12:00	1
F2104947004	KENDALL	WA	EPA 351.2	11/11/2021 07:42	11/11/2021 12:00	1
F2104947004	KENDALL	WA	EPA 365.3	11/11/2021 07:42	11/11/2021 12:00	1
F2104947004	KENDALL	WA	Field Measurements	11/11/2021 07:42	11/11/2021 12:00	6
F2104947004	KENDALL	WA	SM 10200 H	11/11/2021 07:42	11/11/2021 12:00	2





Workorder: MARCO (F2104947)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analyses Reported
F2104947004	KENDALL	WA	SM 4500NO3-F (Low Level)	11/11/2021 07:42	11/11/2021 12:00	3
F2104947005	COLLIER_BRIDGE	WA	Calculation	11/11/2021 07:55	11/11/2021 12:00	1
F2104947005	COLLIER_BRIDGE	WA	DISRES	11/11/2021 07:55	11/11/2021 12:00	3
F2104947005	COLLIER_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 07:55	11/11/2021 12:00	1
F2104947005	COLLIER_BRIDGE	WA	EPA 180.1	11/11/2021 07:55	11/11/2021 12:00	1
F2104947005	COLLIER_BRIDGE	WA	EPA 351.2	11/11/2021 07:55	11/11/2021 12:00	1
F2104947005	COLLIER_BRIDGE	WA	EPA 365.3	11/11/2021 07:55	11/11/2021 12:00	1
F2104947005	COLLIER_BRIDGE	WA	Field Measurements	11/11/2021 07:55	11/11/2021 12:00	6
F2104947005	COLLIER_BRIDGE	WA	SM 10200 H	11/11/2021 07:55	11/11/2021 12:00	2
F2104947005	COLLIER_BRIDGE	WA	SM 4500NO3-F (Low Level)	11/11/2021 07:55	11/11/2021 12:00	3
F2104947006	LANDMARK	WA	Calculation	11/11/2021 08:08	11/11/2021 12:00	1
F2104947006	LANDMARK	WA	DISRES	11/11/2021 08:08	11/11/2021 12:00	3
F2104947006	LANDMARK	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 08:08	11/11/2021 12:00	1
F2104947006	LANDMARK	WA	EPA 180.1	11/11/2021 08:08	11/11/2021 12:00	1
F2104947006	LANDMARK	WA	EPA 351.2	11/11/2021 08:08	11/11/2021 12:00	1
F2104947006	LANDMARK	WA	EPA 365.3	11/11/2021 08:08	11/11/2021 12:00	1
F2104947006	LANDMARK	WA	Field Measurements	11/11/2021 08:08	11/11/2021 12:00	6
F2104947006	LANDMARK	WA	SM 10200 H	11/11/2021 08:08	11/11/2021 12:00	2
F2104947006	LANDMARK	WA	SM 4500NO3-F (Low Level)	11/11/2021 08:08	11/11/2021 12:00	3
F2104947007	LANDMARK_DUP	WA	Calculation	11/11/2021 08:17	11/11/2021 12:00	1
F2104947007	LANDMARK_DUP	WA	DISRES	11/11/2021 08:17	11/11/2021 12:00	3
F2104947007	LANDMARK_DUP	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 08:17	11/11/2021 12:00	1
F2104947007	LANDMARK_DUP	WA	EPA 180.1	11/11/2021 08:17	11/11/2021 12:00	1
F2104947007	LANDMARK_DUP	WA	EPA 351.2	11/11/2021 08:17	11/11/2021 12:00	1
F2104947007	LANDMARK_DUP	WA	EPA 365.3	11/11/2021 08:17	11/11/2021 12:00	1
F2104947007	LANDMARK_DUP	WA	Field Measurements	11/11/2021 08:17	11/11/2021 12:00	6
F2104947007	LANDMARK_DUP	WA	SM 10200 H	11/11/2021 08:17	11/11/2021 12:00	2
F2104947007	LANDMARK_DUP	WA	SM 4500NO3-F (Low Level)	11/11/2021 08:17	11/11/2021 12:00	3
F2104947008	HC_CENTER	WA	Calculation	11/11/2021 08:30	11/11/2021 12:00	1
F2104947008	HC_CENTER	WA	DISRES	11/11/2021 08:30	11/11/2021 12:00	3
F2104947008	HC_CENTER	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 08:30	11/11/2021 12:00	1
F2104947008	HC_CENTER	WA	EPA 180.1	11/11/2021 08:30	11/11/2021 12:00	1
F2104947008	HC_CENTER	WA	EPA 351.2	11/11/2021 08:30	11/11/2021 12:00	1
F2104947008	HC_CENTER	WA	EPA 365.3	11/11/2021 08:30	11/11/2021 12:00	1
F2104947008	HC_CENTER	WA	Field Measurements	11/11/2021 08:30	11/11/2021 12:00	6





Workorder: MARCO (F2104947)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
F2104947008	HC_CENTER	WA	SM 10200 H	11/11/2021 08:30	11/11/2021 12:00	2
F2104947008	HC_CENTER	WA	SM 4500NO3-F (Low Level)	11/11/2021 08:30	11/11/2021 12:00	3
F2104947009	SWALLOW	WA	Calculation	11/11/2021 08:45	11/11/2021 12:00	1
F2104947009	SWALLOW	WA	DISRES	11/11/2021 08:45	11/11/2021 12:00	3
F2104947009	SWALLOW	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 08:45	11/11/2021 12:00	1
F2104947009	SWALLOW	WA	EPA 180.1	11/11/2021 08:45	11/11/2021 12:00	1
F2104947009	SWALLOW	WA	EPA 351.2	11/11/2021 08:45	11/11/2021 12:00	1
F2104947009	SWALLOW	WA	EPA 365.3	11/11/2021 08:45	11/11/2021 12:00	1
F2104947009	SWALLOW	WA	Field Measurements	11/11/2021 08:45	11/11/2021 12:00	6
F2104947009	SWALLOW	WA	SM 10200 H	11/11/2021 08:45	11/11/2021 12:00	2
F2104947009	SWALLOW	WA	SM 4500NO3-F (Low Level)	11/11/2021 08:45	11/11/2021 12:00	3
F2104947010	W_WINTERBERRY_BRIDGE	WA	Calculation	11/11/2021 09:02	11/11/2021 12:00	1
F2104947010	W_WINTERBERRY_BRIDGE	WA	DISRES	11/11/2021 09:02	11/11/2021 12:00	3
F2104947010	W_WINTERBERRY_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 09:02	11/11/2021 12:00	1
F2104947010	W_WINTERBERRY_BRIDGE	WA	EPA 180.1	11/11/2021 09:02	11/11/2021 12:00	1
F2104947010	W_WINTERBERRY_BRIDGE	WA	EPA 351.2	11/11/2021 09:02	11/11/2021 12:00	1
F2104947010	W_WINTERBERRY_BRIDGE	WA	EPA 365.3	11/11/2021 09:02	11/11/2021 12:00	1
F2104947010	W_WINTERBERRY_BRIDGE	WA	Field Measurements	11/11/2021 09:02	11/11/2021 12:00	6
F2104947010	W_WINTERBERRY_BRIDGE	WA	SM 10200 H	11/11/2021 09:02	11/11/2021 12:00	2
F2104947010	W_WINTERBERRY_BRIDGE	WA	SM 4500NO3-F (Low Level)	11/11/2021 09:02	11/11/2021 12:00	3
F2104947011	E_WINTERBERRY_BRIDGE	WA	Calculation	11/11/2021 09:13	11/11/2021 12:00	1
F2104947011	E_WINTERBERRY_BRIDGE	WA	DISRES	11/11/2021 09:13	11/11/2021 12:00	3
F2104947011	E_WINTERBERRY_BRIDGE	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 09:13	11/11/2021 12:00	1
F2104947011	E_WINTERBERRY_BRIDGE	WA	EPA 180.1	11/11/2021 09:13	11/11/2021 12:00	1
F2104947011	E_WINTERBERRY_BRIDGE	WA	EPA 351.2	11/11/2021 09:13	11/11/2021 12:00	1
F2104947011	E_WINTERBERRY_BRIDGE	WA	EPA 365.3	11/11/2021 09:13	11/11/2021 12:00	1
F2104947011	E_WINTERBERRY_BRIDGE	WA	Field Measurements	11/11/2021 09:13	11/11/2021 12:00	6
F2104947011	E_WINTERBERRY_BRIDGE	WA	SM 10200 H	11/11/2021 09:13	11/11/2021 12:00	2
F2104947011	E_WINTERBERRY_BRIDGE	WA	SM 4500NO3-F (Low Level)	11/11/2021 09:13	11/11/2021 12:00	3
F2104947012	MCILVAINE	WA	Calculation	11/11/2021 09:26	11/11/2021 12:00	1
F2104947012	MCILVAINE	WA	DISRES	11/11/2021 09:26	11/11/2021 12:00	3
F2104947012	MCILVAINE	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 09:26	11/11/2021 12:00	1





Workorder: MARCO (F2104947)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analyses Reported
F2104947012	MCILVAINE	WA	EPA 180.1	11/11/2021 09:26	11/11/2021 12:00	1
F2104947012	MCILVAINE	WA	EPA 351.2	11/11/2021 09:26	11/11/2021 12:00	1
F2104947012	MCILVAINE	WA	EPA 365.3	11/11/2021 09:26	11/11/2021 12:00	1
F2104947012	MCILVAINE	WA	Field Measurements	11/11/2021 09:26	11/11/2021 12:00	6
F2104947012	MCILVAINE	WA	SM 10200 H	11/11/2021 09:26	11/11/2021 12:00	2
F2104947012	MCILVAINE	WA	SM 4500NO3-F (Low Level)	11/11/2021 09:26	11/11/2021 12:00	3
F2104947013	HUMMINGBIRD	WA	Calculation	11/11/2021 09:44	11/11/2021 12:00	1
F2104947013	HUMMINGBIRD	WA	DISRES	11/11/2021 09:44	11/11/2021 12:00	3
F2104947013	HUMMINGBIRD	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 09:44	11/11/2021 12:00	1
F2104947013	HUMMINGBIRD	WA	EPA 180.1	11/11/2021 09:44	11/11/2021 12:00	1
F2104947013	HUMMINGBIRD	WA	EPA 351.2	11/11/2021 09:44	11/11/2021 12:00	1
F2104947013	HUMMINGBIRD	WA	EPA 365.3	11/11/2021 09:44	11/11/2021 12:00	1
F2104947013	HUMMINGBIRD	WA	Field Measurements	11/11/2021 09:44	11/11/2021 12:00	6
F2104947013	HUMMINGBIRD	WA	SM 10200 H	11/11/2021 09:44	11/11/2021 12:00	2
F2104947013	HUMMINGBIRD	WA	SM 4500NO3-F (Low Level)	11/11/2021 09:44	11/11/2021 12:00	3
F2104947014	HOLLYHOCK	WA	Calculation	11/11/2021 09:53	11/11/2021 12:00	1
F2104947014	HOLLYHOCK	WA	DISRES	11/11/2021 09:53	11/11/2021 12:00	3
F2104947014	HOLLYHOCK	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 09:53	11/11/2021 12:00	1
F2104947014	HOLLYHOCK	WA	EPA 180.1	11/11/2021 09:53	11/11/2021 12:00	1
F2104947014	HOLLYHOCK	WA	EPA 351.2	11/11/2021 09:53	11/11/2021 12:00	1
F2104947014	HOLLYHOCK	WA	EPA 365.3	11/11/2021 09:53	11/11/2021 12:00	1
F2104947014	HOLLYHOCK	WA	Field Measurements	11/11/2021 09:53	11/11/2021 12:00	6
F2104947014	HOLLYHOCK	WA	SM 10200 H	11/11/2021 09:53	11/11/2021 12:00	2
F2104947014	HOLLYHOCK	WA	SM 4500NO3-F (Low Level)	11/11/2021 09:53	11/11/2021 12:00	3
F2104947015	WINDMILL	WA	Calculation	11/11/2021 10:07	11/11/2021 12:00	1
F2104947015	WINDMILL	WA	DISRES	11/11/2021 10:07	11/11/2021 12:00	3
F2104947015	WINDMILL	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 10:07	11/11/2021 12:00	1
F2104947015	WINDMILL	WA	EPA 180.1	11/11/2021 10:07	11/11/2021 12:00	1
F2104947015	WINDMILL	WA	EPA 351.2	11/11/2021 10:07	11/11/2021 12:00	1
F2104947015	WINDMILL	WA	EPA 365.3	11/11/2021 10:07	11/11/2021 12:00	1
F2104947015	WINDMILL	WA	Field Measurements	11/11/2021 10:07	11/11/2021 12:00	6
F2104947015	WINDMILL	WA	SM 10200 H	11/11/2021 10:07	11/11/2021 12:00	2
F2104947015	WINDMILL	WA	SM 4500NO3-F (Low Level)	11/11/2021 10:07	11/11/2021 12:00	3
F2104947016	EQUIPMENT_BLANK	WA	Calculation	11/11/2021 10:16	11/11/2021 12:00	1
F2104947016	EQUIPMENT_BLANK	WA	ENTEROLERT/ QUANTI-TRAY	11/11/2021 10:16	11/11/2021 12:00	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
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Workorder: MARCO (F2104947)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
F2104947016	EQUIPMENT_BLANK	WA	EPA 180.1	11/11/2021 10:16	11/11/2021 12:00	1
F2104947016	EQUIPMENT_BLANK	WA	EPA 351.2	11/11/2021 10:16	11/11/2021 12:00	1
F2104947016	EQUIPMENT_BLANK	WA	EPA 365.3	11/11/2021 10:16	11/11/2021 12:00	1
F2104947016	EQUIPMENT_BLANK	WA	SM 10200 H	11/11/2021 10:16	11/11/2021 12:00	2
F2104947016	EQUIPMENT_BLANK	WA	SM 4500NO3-F (Low Level)	11/11/2021 10:16	11/11/2021 12:00	3

Certificate of Analysis

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Workorder: MARCO (F2104947)

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

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





Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947001 Date Collected: 11/11/2021 07:00 Matrix: Water								
Sample ID: BARFIELD_BRIDGE Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 11:20	11/19/2021 11:20	X
Secchi Disc	3.5	meters			1	11/19/2021 11:20	11/19/2021 11:20	X
Total Depth	4	meters			1	11/19/2021 11:20	11/19/2021 11:20	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	52107	umhos/cm			1	11/19/2021 11:21	11/19/2021 11:21	F
DO Saturation %	89.5	%			1	11/19/2021 11:21	11/19/2021 11:21	F
Dissolved Oxygen	6.23	mg/L			1	11/19/2021 11:21	11/19/2021 11:21	F
Salinity	34.33	ppt			1	11/19/2021 11:21	11/19/2021 11:21	F
Temperature	23.2	°C			1	11/19/2021 11:21	11/19/2021 11:21	F
pH	8.09	SU			1	11/19/2021 11:21	11/19/2021 11:21	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.221	mg/L	0.2	0.12	1	12/02/2021 09:36	12/02/2021 09:36	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.206 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.056	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	3.2	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.01	mg/L	0.01	0.0060	1	11/12/2021 14:36	11/12/2021 14:36	T
Nitrate + Nitrite	0.02 I	mg/L	0.02	0.010	1	11/12/2021 14:36	11/12/2021 14:36	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:36	11/12/2021 14:36	T





Workorder: MARCO (F2104947)

Analytical Results

Analysis Results Comments

Corrected Chlorophyll A

samples F2104947001-16 filtered on 11/12/2021 at 13:17

Certificate of Analysis

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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947002 Date Collected: 11/11/2021 07:18 Matrix: Water								
Sample ID: OLDE_MARCO Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 11:24	11/19/2021 11:24	X
Secchi Disc	3	meters			1	11/19/2021 11:24	11/19/2021 11:24	X
Total Depth	3	meters			1	11/19/2021 11:23	11/19/2021 11:23	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	53499	umhos/cm			1	11/19/2021 11:26	11/19/2021 11:26	F
DO Saturation %	79.3	%			1	11/19/2021 11:26	11/19/2021 11:26	F
Dissolved Oxygen	5.59	mg/L			1	11/19/2021 11:26	11/19/2021 11:26	F
Salinity	35.35	ppt			1	11/19/2021 11:26	11/19/2021 11:26	F
Temperature	22.9	°C			1	11/19/2021 11:26	11/19/2021 11:26	F
pH	8.13	SU			1	11/19/2021 11:26	11/19/2021 11:26	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.246	mg/L	0.2	0.12	1	12/02/2021 09:37	12/02/2021 09:37	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.246 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.098	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.009 I	mg/L	0.01	0.0060	1	11/12/2021 14:36	11/12/2021 14:36	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:36	11/12/2021 14:36	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:36	11/12/2021 14:36	T





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Workorder: MARCO (F2104947)

Analytical Results

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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947003 Date Collected: 11/11/2021 07:30 Matrix: Water								
Sample ID: JH_PARK Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 11:31	11/19/2021 11:31	X
Secchi Disc	4	meters			1	11/19/2021 11:31	11/19/2021 11:31	X
Total Depth	5	meters			1	11/19/2021 11:30	11/19/2021 11:30	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	49579	umhos/cm			1	11/19/2021 11:32	11/19/2021 11:32	F
DO Saturation %	94.2	%			1	11/19/2021 11:32	11/19/2021 11:32	F
Dissolved Oxygen	6.65	mg/L			1	11/19/2021 11:32	11/19/2021 11:32	F
Salinity	32.45	ppt			1	11/19/2021 11:32	11/19/2021 11:32	F
Temperature	23.7	°C			1	11/19/2021 11:32	11/19/2021 11:32	F
pH	8.06	SU			1	11/19/2021 11:32	11/19/2021 11:32	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.12 U	mg/L	0.2	0.12	1	12/02/2021 09:37	12/02/2021 09:37	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.8	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.01 I	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	3.2	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.01	mg/L	0.01	0.0060	1	11/12/2021 14:39	11/12/2021 14:39	T
Nitrate + Nitrite	0.01 I	mg/L	0.02	0.010	1	11/12/2021 14:39	11/12/2021 14:39	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:39	11/12/2021 14:39	T





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Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947004 Date Collected: 11/11/2021 07:42 Matrix: Water								
Sample ID: KENDALL Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 11:36	11/19/2021 11:36	X
Secchi Disc	3	meters			1	11/19/2021 11:36	11/19/2021 11:36	X
Total Depth	3	meters			1	11/19/2021 11:35	11/19/2021 11:35	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	49399	umhos/cm			1	11/19/2021 11:46	11/19/2021 11:46	F
DO Saturation %	64.7	%			1	11/19/2021 11:46	11/19/2021 11:46	F
Dissolved Oxygen	4.59	mg/L			1	11/19/2021 11:46	11/19/2021 11:46	F
Salinity	32.27	ppt			1	11/19/2021 11:46	11/19/2021 11:46	F
Temperature	24	°C			1	11/19/2021 11:46	11/19/2021 11:46	F
pH	7.99	SU			1	11/19/2021 11:46	11/19/2021 11:46	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.322	mg/L	0.2	0.12	1	12/02/2021 09:38	12/02/2021 09:38	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.302 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.014	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.02	mg/L	0.01	0.0060	1	11/12/2021 14:39	11/12/2021 14:39	T
Nitrate + Nitrite	0.02	mg/L	0.02	0.010	1	11/12/2021 14:39	11/12/2021 14:39	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:39	11/12/2021 14:39	T





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Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947005 Date Collected: 11/11/2021 07:55 Matrix: Water								
Sample ID: COLLIER_BRIDGE Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 11:50	11/19/2021 11:50	X
Secchi Disc	4	meters			1	11/19/2021 11:51	11/19/2021 11:51	X
Total Depth	4	meters			1	11/19/2021 11:49	11/19/2021 11:49	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51878	umhos/cm			1	11/19/2021 11:52	11/19/2021 11:52	F
DO Saturation %	70.2	%			1	11/19/2021 11:52	11/19/2021 11:52	F
Dissolved Oxygen	4.89	mg/L			1	11/19/2021 11:52	11/19/2021 11:52	F
Salinity	34.13	ppt			1	11/19/2021 11:52	11/19/2021 11:52	F
Temperature	24.3	°C			1	11/19/2021 11:52	11/19/2021 11:52	F
pH	8.07	SU			1	11/19/2021 11:52	11/19/2021 11:52	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.12 U	mg/L	0.2	0.12	1	12/02/2021 09:38	12/02/2021 09:38	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.8	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.012	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.9 I	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.008 I	mg/L	0.01	0.0060	1	11/12/2021 14:40	11/12/2021 14:40	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:40	11/12/2021 14:40	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:40	11/12/2021 14:40	T





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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947006 Date Collected: 11/11/2021 08:08 Matrix: Water								
Sample ID: LANDMARK Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 11:56	11/19/2021 11:56	X
Secchi Disc	2.5	meters			1	11/19/2021 11:57	11/19/2021 11:57	X
Total Depth	2.5	meters			1	11/19/2021 11:56	11/19/2021 11:56	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51878	umhos/cm			1	11/19/2021 11:58	11/19/2021 11:58	F
DO Saturation %	70.2	%			1	11/19/2021 11:58	11/19/2021 11:58	F
Dissolved Oxygen	4.89	mg/L			1	11/19/2021 11:58	11/19/2021 11:58	F
Salinity	34.13	ppt			1	11/19/2021 11:58	11/19/2021 11:58	F
Temperature	24.3	°C			1	11/19/2021 11:58	11/19/2021 11:58	F
pH	8.07	SU			1	11/19/2021 11:58	11/19/2021 11:58	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.12 U	mg/L	0.2	0.12	1	12/02/2021 09:38	12/02/2021 09:38	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.9	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.014	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.0	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.0060 U	mg/L	0.01	0.0060	1	11/12/2021 14:41	11/12/2021 14:41	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:41	11/12/2021 14:41	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:41	11/12/2021 14:41	T





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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947007 Date Collected: 11/11/2021 08:17 Matrix: Water								
Sample ID: LANDMARK_DUP Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 12:28	11/19/2021 12:28	X
Secchi Disc	2.5	meters			1	11/19/2021 12:31	11/19/2021 12:31	X
Total Depth	2.5	meters			1	11/19/2021 12:27	11/19/2021 12:27	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51886	umhos/cm			1	11/19/2021 12:31	11/19/2021 12:31	F
DO Saturation %	71.1	%			1	11/19/2021 12:31	11/19/2021 12:31	F
Dissolved Oxygen	4.77	mg/L			1	11/19/2021 12:31	11/19/2021 12:31	F
Salinity	34.14	ppt			1	11/19/2021 12:31	11/19/2021 12:31	F
Temperature	24.4	°C			1	11/19/2021 12:31	11/19/2021 12:31	F
pH	8.07	SU			1	11/19/2021 12:31	11/19/2021 12:31	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.284	mg/L	0.2	0.12	1	12/02/2021 09:39	12/02/2021 09:39	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.284 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.9	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.014	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.008 I	mg/L	0.01	0.0060	1	11/12/2021 14:42	11/12/2021 14:42	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:42	11/12/2021 14:42	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:42	11/12/2021 14:42	T





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Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947008 Date Collected: 11/11/2021 08:30 Matrix: Water								
Sample ID: HC_CENTER Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 12:39	11/19/2021 12:39	X
Secchi Disc	2	meters			1	11/19/2021 12:39	11/19/2021 12:39	X
Total Depth	2	meters			1	11/19/2021 12:37	11/19/2021 12:37	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	49175	umhos/cm			1	11/19/2021 12:40	11/19/2021 12:40	F
DO Saturation %	68.7	%			1	11/19/2021 12:40	11/19/2021 12:40	F
Dissolved Oxygen	4.87	mg/L			1	11/19/2021 12:40	11/19/2021 12:40	F
Salinity	32.17	ppt			1	11/19/2021 12:40	11/19/2021 12:40	F
Temperature	23.8	°C			1	11/19/2021 12:40	11/19/2021 12:40	F
pH	8.02	SU			1	11/19/2021 12:40	11/19/2021 12:40	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.12 U	mg/L	0.2	0.12	1	12/02/2021 09:39	12/02/2021 09:39	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.8	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.007 I	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.009 I	mg/L	0.01	0.0060	1	11/12/2021 14:42	11/12/2021 14:42	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:42	11/12/2021 14:42	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:42	11/12/2021 14:42	T





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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947009 Date Collected: 11/11/2021 08:45 Matrix: Water								
Sample ID: SWALLOW Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/19/2021 12:44	11/19/2021 12:44	X
Secchi Disc	3.5	meters			1	11/19/2021 12:46	11/19/2021 12:46	X
Total Depth	4	meters			1	11/19/2021 12:42	11/19/2021 12:42	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51597	umhos/cm			1	11/19/2021 12:47	11/19/2021 12:47	F
DO Saturation %	45.2	%			1	11/19/2021 12:47	11/19/2021 12:47	F
Dissolved Oxygen	3.15	mg/L			1	11/19/2021 12:47	11/19/2021 12:47	F
Salinity	33.91	ppt			1	11/19/2021 12:47	11/19/2021 12:47	F
Temperature	24	°C			1	11/19/2021 12:47	11/19/2021 12:47	F
pH	7.96	SU			1	11/19/2021 12:47	11/19/2021 12:47	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.407	mg/L	0.2	0.12	1	12/02/2021 09:40	12/02/2021 09:40	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.362 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.7	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.025	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.04	mg/L	0.01	0.0060	1	11/12/2021 14:43	11/12/2021 14:43	T
Nitrate + Nitrite	0.04	mg/L	0.02	0.010	1	11/12/2021 14:43	11/12/2021 14:43	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:43	11/12/2021 14:43	T





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Workorder: MARCO (F2104947)

Analytical Results

Analysis Results Comments

Total Kjeldahl Nitrogen

J4|Estimated Result

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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947010 Date Collected: 11/11/2021 09:02 Matrix: Water								
Sample ID: W_WINTERBERRY_BRID GE Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/22/2021 09:57	11/22/2021 09:57	X
Secchi Disc	3	meters			1	11/22/2021 09:58	11/22/2021 09:58	X
Total Depth	3	meters			1	11/19/2021 12:51	11/19/2021 12:51	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51794	umhos/cm			1	11/22/2021 10:00	11/22/2021 10:00	F
DO Saturation %	84.7	%			1	11/22/2021 10:00	11/22/2021 10:00	F
Dissolved Oxygen	5.88	mg/L			1	11/22/2021 10:00	11/22/2021 10:00	F
Salinity	34.07	ppt			1	11/22/2021 10:00	11/22/2021 10:00	F
Temperature	23.9	°C			1	11/22/2021 10:00	11/22/2021 10:00	F
pH	8.11	SU			1	11/22/2021 10:00	11/22/2021 10:00	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.240	mg/L	0.2	0.12	1	12/02/2021 09:40	12/02/2021 09:40	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.240 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.007 I	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.01	mg/L	0.01	0.0060	1	11/12/2021 14:44	11/12/2021 14:44	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:44	11/12/2021 14:44	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:44	11/12/2021 14:44	T





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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947011 Date Collected: 11/11/2021 09:13 Matrix: Water								
Sample ID: E_WINTERBERRY_BRID Date Received: 11/11/2021 12:00								
GE								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/22/2021 10:04	11/22/2021 10:04	X
Secchi Disc	4	meters			1	11/22/2021 10:05	11/22/2021 10:05	X
Total Depth	4.5	meters			1	11/22/2021 10:03	11/22/2021 10:03	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51540	umhos/cm			1	11/22/2021 10:06	11/22/2021 10:06	F
DO Saturation %	89.8	%			1	11/22/2021 10:06	11/22/2021 10:06	F
Dissolved Oxygen	6.27	mg/L			1	11/22/2021 10:06	11/22/2021 10:06	F
Salinity	33.89	ppt			1	11/22/2021 10:06	11/22/2021 10:06	F
Temperature	23.9	°C			1	11/22/2021 10:06	11/22/2021 10:06	F
pH	8.13	SU			1	11/22/2021 10:06	11/22/2021 10:06	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.12 U	mg/L	0.2	0.12	1	12/02/2021 09:40	12/02/2021 09:40	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.072	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.0	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.0060 U	mg/L	0.01	0.0060	1	11/12/2021 14:51	11/12/2021 14:51	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:51	11/12/2021 14:51	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:51	11/12/2021 14:51	T





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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947012 Date Collected: 11/11/2021 09:26 Matrix: Water								
Sample ID: MCILVAINE Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/22/2021 10:55	11/22/2021 10:55	X
Secchi Disc	2.5	meters			1	11/22/2021 10:56	11/22/2021 10:56	X
Total Depth	3	meters			1	11/22/2021 10:12	11/22/2021 10:12	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	52647	umhos/cm			1	11/22/2021 10:57	11/22/2021 10:57	F
DO Saturation %	78	%			1	11/22/2021 10:57	11/22/2021 10:57	F
Dissolved Oxygen	5.57	mg/L			1	11/22/2021 10:57	11/22/2021 10:57	F
Salinity	34.72	ppt			1	11/22/2021 10:57	11/22/2021 10:57	F
Temperature	23.1	°C			1	11/22/2021 10:57	11/22/2021 10:57	F
pH	8.22	SU			1	11/22/2021 10:57	11/22/2021 10:57	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.206	mg/L	0.2	0.12	1	12/02/2021 10:03	12/02/2021 10:03	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.206 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	2	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.005 I	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.0	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.006 I	mg/L	0.01	0.0060	1	11/12/2021 14:51	11/12/2021 14:51	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:51	11/12/2021 14:51	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:51	11/12/2021 14:51	T





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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947013 Date Collected: 11/11/2021 09:44 Matrix: Water								
Sample ID: HUMMINGBIRD Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/22/2021 11:02	11/22/2021 11:02	X
Secchi Disc	2.5	meters			1	11/22/2021 11:03	11/22/2021 11:03	X
Total Depth	2.5	meters			1	11/22/2021 11:01	11/22/2021 11:01	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	49702	umhos/cm			1	11/22/2021 11:06	11/22/2021 11:06	F
DO Saturation %	75	%			1	11/22/2021 11:06	11/22/2021 11:06	F
Dissolved Oxygen	5.32	mg/L			1	11/22/2021 11:06	11/22/2021 11:06	F
Salinity	32.54	ppt			1	11/22/2021 11:06	11/22/2021 11:06	F
Temperature	23.8	°C			1	11/22/2021 11:06	11/22/2021 11:06	F
pH	8.03	SU			1	11/22/2021 11:06	11/22/2021 11:06	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.452	mg/L	0.2	0.12	1	12/02/2021 10:07	12/02/2021 10:07	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.452 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.01 I	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.0	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.01	mg/L	0.01	0.0060	1	11/12/2021 14:52	11/12/2021 14:52	T
Nitrate + Nitrite	0.01 I	mg/L	0.02	0.010	1	11/12/2021 14:52	11/12/2021 14:52	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:52	11/12/2021 14:52	T





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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947014 Date Collected: 11/11/2021 09:53 Matrix: Water								
Sample ID: HOLLYHOCK Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/22/2021 11:13	11/22/2021 11:13	X
Secchi Disc	2	meters			1	11/22/2021 11:14	11/22/2021 11:14	X
Total Depth	2	meters			1	11/22/2021 11:12	11/22/2021 11:12	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	51026	umhos/cm			1	11/22/2021 11:15	11/22/2021 11:15	F
DO Saturation %	81	%			1	11/22/2021 11:15	11/22/2021 11:15	F
Dissolved Oxygen	5.83	mg/L			1	11/22/2021 11:15	11/22/2021 11:15	F
Salinity	33.53	ppt			1	11/22/2021 11:15	11/22/2021 11:15	F
Temperature	22.9	°C			1	11/22/2021 11:15	11/22/2021 11:15	F
pH	8.1	SU			1	11/22/2021 11:15	11/22/2021 11:15	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.202	mg/L	0.2	0.12	1	12/02/2021 10:08	12/02/2021 10:08	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.202 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.007 I	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.0	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.009 I	mg/L	0.01	0.0060	1	11/12/2021 14:53	11/12/2021 14:53	T
Nitrate + Nitrite	0.01 I	mg/L	0.02	0.010	1	11/12/2021 14:53	11/12/2021 14:53	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:53	11/12/2021 14:53	T





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Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947015 Date Collected: 11/11/2021 10:07 Matrix: Water								
Sample ID: WINDMILL Date Received: 11/11/2021 12:00								
FIELD PARAMETERS (DISRES)								
Sample Depth	0.3	meters			1	11/22/2021 11:25	11/22/2021 11:25	X
Secchi Disc	3	meters			1	11/22/2021 11:25	11/22/2021 11:25	X
Total Depth	3.5	meters			1	11/22/2021 11:22	11/22/2021 11:22	X
FIELD PARAMETERS (Field Measurements)								
Conductivity	50178	umhos/cm			1	11/22/2021 11:25	11/22/2021 11:25	F
DO Saturation %	88	%			1	11/22/2021 11:25	11/22/2021 11:25	F
Dissolved Oxygen	6.24	mg/L			1	11/22/2021 11:25	11/22/2021 11:25	F
Salinity	32.87	ppt			1	11/22/2021 11:25	11/22/2021 11:25	F
Temperature	23.6	°C			1	11/22/2021 11:25	11/22/2021 11:25	F
pH	8.1	SU			1	11/22/2021 11:25	11/22/2021 11:25	F
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	10 U	MPN/100 mL	10	10	10	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.383	mg/L	0.2	0.12	1	12/02/2021 10:08	12/02/2021 10:08	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.383 I	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	1	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.01 I	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	4.8	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.006 I	mg/L	0.01	0.0060	1	11/12/2021 14:54	11/12/2021 14:54	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:54	11/12/2021 14:54	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:54	11/12/2021 14:54	T





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Workorder: MARCO (F2104947)

Analytical Results

Certificate of Analysis

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Workorder: MARCO (F2104947)

Analytical Results

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Lab ID: F2104947016 Date Collected: 11/11/2021 10:16 Matrix: Water								
Sample ID: EQUIPMENT_BLANK Date Received: 11/11/2021 12:00								
Microbiology (ENTEROLERT/ QUANTI-TRAY)								
Enterococcus	1 U	MPN/100 mL	1	1	1	11/11/2021 14:55	11/11/2021 14:55	F
WET CHEMISTRY (Calculation)								
Total Nitrogen	0.12 U	mg/L	0.2	0.12	1	12/02/2021 10:08	12/02/2021 10:08	T
WET CHEMISTRY (Copper Sulfate Digestion/EPA 351.2)								
Total Kjeldahl Nitrogen	0.20 U	mg/L	0.5	0.20	1	11/19/2021 16:45	11/22/2021 10:15	G
WET CHEMISTRY (EPA 180.1)								
Turbidity	0.10 U	NTU	0.1	0.10	1	11/12/2021 10:55	11/12/2021 10:55	F
WET CHEMISTRY (EPA 365.3)								
Total Phosphorus (as P)	0.005 U	mg/L	0.01	0.005	1	11/17/2021 14:28	11/18/2021 17:01	G
WET CHEMISTRY (SM 10200 H)								
Corrected Chlorophyll A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
Pheophytin A	2.5 U	mg/m3	3.0	2.5	1	11/18/2021 12:30	11/18/2021 12:30	G
WET CHEMISTRY (SM 4500NO3-F (Low Level))								
Nitrate (as N)	0.0060 U	mg/L	0.01	0.0060	1	11/12/2021 14:54	11/12/2021 14:54	T
Nitrate + Nitrite	0.010 U	mg/L	0.02	0.010	1	11/12/2021 14:54	11/12/2021 14:54	T
Nitrite (as N)	0.0080 U	mg/L	0.01	0.0080	1	11/12/2021 14:54	11/12/2021 14:54	T





Workorder: MARCO (F2104947)

QC Results

QC Batch: MICf/1473 **Analysis Method:** ENTEROLERT/ QUANTI-TRAY
Preparation Method: ENTEROLERT/ QUANTI-TRAY
Associated Lab IDs: F2104947001, F2104947002, F2104947003, F2104947004, F2104947005, F2104947006, F2104947007, F2104947008, F2104947009, F2104947010, F2104947011, F2104947012, F2104947013, F2104947014, F2104947015, F2104947016

Method Blank(4099031)

Parameter	Results	Units	PQL	MDL	Lab
Enterococcus	1 U	MPN/100 mL	1	1	F





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Workorder: MARCO (F2104947)

QC Results

QC Batch: WCAf/1755 **Analysis Method:** EPA 180.1
Preparation Method: EPA 180.1
Associated Lab IDs: F2104947001, F2104947002, F2104947003, F2104947004, F2104947005, F2104947006, F2104947007, F2104947008, F2104947009, F2104947010, F2104947011, F2104947012, F2104947013, F2104947014, F2104947015, F2104947016

Method Blank(4099770)

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

Sample Duplicate (4099773)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Turbidity	2.08	2.1	NTU	1	20	F





Workorder: MARCO (F2104947)

QC Results

QC Batch: WCAg/4473 **Analysis Method:** SM 10200 H
Preparation Method: SM 10200 H
Associated Lab IDs: F2104947001, F2104947002, F2104947003, F2104947004, F2104947005, F2104947006, F2104947007, F2104947008, F2104947009, F2104947010, F2104947011, F2104947012, F2104947013, F2104947014, F2104947015, F2104947016

Method Blank(4106226)

Parameter	Results	Units	PQL	MDL	Lab
Pheophytin A	2.5 U	mg/m3	3.0	2.5	G

Sample Duplicate (4106227)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Pheophytin A	1.84	1.28	mg/m3	36		G

QC Task Comments

Method Blank - 4106226 - 1977190

filters extracted on 11/18/2021 at 10:00





Workorder: MARCO (F2104947)

QC Results

QC Batch: WCAg/4497 **Analysis Method:** EPA 365.3
Preparation Method: EPA 365.3
Associated Lab IDs: F2104947001, F2104947002, F2104947003, F2104947004, F2104947005, F2104947006

Method Blank(4108637)

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

Lab Control Sample (4108639)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Phosphorus (as P)	mg/L	0.10	.11	114	80 - 120	G

Matrix Spike (4108640); Matrix Spike Duplicate (4108641)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Total Phosphorus (as P)	mg/L	0.25	.33	98	80 - 120	.34	102	4	20	G

Method Blank(4108643)

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





Workorder: MARCO (F2104947)

QC Results

QC Batch: WCAg/4552 **Analysis Method:** EPA 351.2
Preparation Method: Copper Sulfate Digestion
Associated Lab IDs: F2104947001, F2104947002, F2104947003, F2104947004, F2104947005, F2104947006, F2104947007, F2104947008, F2104947009

Method Blank(4110445)

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

Lab Control Sample (4110447)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Kjeldahl Nitrogen	mg/L	1	1	100	90 - 110	G

Matrix Spike (4110449); Matrix Spike Duplicate (4110451)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Total Kjeldahl Nitrogen	mg/L	1	1.49	71	80 - 120	1.52	75	5	20	G

Matrix Spike (4110453); Matrix Spike Duplicate (4110454)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Total Kjeldahl Nitrogen	mg/L	1	.96	96	80 - 120	1.19	119	21	20	G





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Workorder: MARCO (F2104947)

QC Results

QC Batch: WCAg/4554 **Analysis Method:** EPA 365.4
Preparation Method: Copper Sulfate Digestion
Associated Lab IDs: F2104947001, F2104947002, F2104947003, F2104947004, F2104947005, F2104947006, F2104947007, F2104947008, F2104947009

Method Blank(4110446)

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





Workorder: MARCO (F2104947)

QC Results

QC Batch: WCAg/4555 **Analysis Method:** EPA 351.2
Preparation Method: Copper Sulfate Digestion
Associated Lab IDs: F2104947010, F2104947011, F2104947012, F2104947013, F2104947014, F2104947015, F2104947016

Method Blank(4110475)

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

Lab Control Sample (4110477)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Kjeldahl Nitrogen	mg/L	1	.92	92	90 - 110	G

Matrix Spike (4110479); Matrix Spike Duplicate (4110480)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Total Kjeldahl Nitrogen	mg/L	1	3.6	122	80 - 120	4.43	205	51	20	G

Matrix Spike (4110481); Matrix Spike Duplicate (4110483)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Total Kjeldahl Nitrogen	mg/L	1	1.18	51	80 - 120	1.25	58	13	20	G





Workorder: MARCO (F2104947)

QC Results

QC Batch: WCAI/8285

Analysis Method: SM 4500NO3-F (Low Level)

Preparation Method: SM 4500NO3-F (Low Level)

Associated Lab IDs: F2104947001, F2104947002, F2104947003, F2104947004, F2104947005, F2104947006, F2104947007, F2104947008, F2104947009, F2104947010

Method Blank(4099940)

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

Lab Control Sample (4099941)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrite (as N)	mg/L	0.05	.05	94	90 - 110	T
Nitrate + Nitrite	mg/L	0.10	.09	94	90 - 110	T
Nitrate (as N)	mg/L	0.05	.05	94	90 - 110	T

Matrix Spike (4099942); Matrix Spike Duplicate (4099943)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrite (as N)	mg/L	0.05	.05	102	90 - 110	.05	104	2	10	T
Nitrate + Nitrite	mg/L	0.10	.1	110	90 - 110	.1	109	1	10	T
Nitrate (as N)	mg/L	0.05	.06	100	90 - 110	.06	96	4	10	T

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Workorder: MARCO (F2104947)

QC Results

QC Batch: WCA/8287 **Analysis Method:** SM 4500NO3-F (Low Level)
Preparation Method: SM 4500NO3-F (Low Level)
Associated Lab IDs: F2104947011, F2104947012, F2104947013, F2104947014, F2104947015, F2104947016

Method Blank(4099948)

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

Lab Control Sample (4099949)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrite (as N)	mg/L	0.05	.05	94	90 - 110	T
Nitrate (as N)	mg/L	0.05	.05	94	90 - 110	T
Nitrate + Nitrite	mg/L	0.10	.09	94	90 - 110	T

Matrix Spike (4099950); Matrix Spike Duplicate (4099951)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	0.05	.06	100	90 - 110	.05	90	11	10	T
Nitrite (as N)	mg/L	0.05	.05	106	90 - 110	.05	108	2	10	T
Nitrate + Nitrite	mg/L	0.10	.1	103	90 - 110	.1	99	4	10	T





Workorder: MARCO (F2104947)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
MICf/1473 - ENTEROLERT/ QUANTI-TRAY			
F2104947001	BARFIELD_BRIDGE		
F2104947002	OLDE_MARCO		
F2104947003	JH_PARK		
F2104947004	KENDALL		
F2104947005	COLLIER_BRIDGE		
F2104947006	LANDMARK		
F2104947007	LANDMARK_DUP		
F2104947008	HC_CENTER		
F2104947009	SWALLOW		
F2104947010	W_WINTERBERRY_BRIDGE		
F2104947011	E_WINTERBERRY_BRIDGE		
F2104947012	MCILVAINE		
F2104947013	HUMMINGBIRD		
F2104947014	HOLLYHOCK		
F2104947015	WINDMILL		
F2104947016	EQUIPMENT_BLANK		
WCAf/1755 - EPA 180.1			
F2104947001	BARFIELD_BRIDGE		
F2104947002	OLDE_MARCO		
F2104947003	JH_PARK		
F2104947004	KENDALL		
F2104947005	COLLIER_BRIDGE		
F2104947006	LANDMARK		
F2104947007	LANDMARK_DUP		
F2104947008	HC_CENTER		
F2104947009	SWALLOW		
F2104947010	W_WINTERBERRY_BRIDGE		
F2104947011	E_WINTERBERRY_BRIDGE		
F2104947012	MCILVAINE		
F2104947013	HUMMINGBIRD		
F2104947014	HOLLYHOCK		
F2104947015	WINDMILL		
F2104947016	EQUIPMENT_BLANK		

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Workorder: MARCO (F2104947)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAg/4473 - SM 10200 H			
F2104947001	BARFIELD_BRIDGE		
F2104947002	OLDE_MARCO		
F2104947003	JH_PARK		
F2104947004	KENDALL		
F2104947005	COLLIER_BRIDGE		
F2104947006	LANDMARK		
F2104947007	LANDMARK_DUP		
F2104947008	HC_CENTER		
F2104947009	SWALLOW		
F2104947010	W_WINTERBERRY_BRIDGE		
F2104947011	E_WINTERBERRY_BRIDGE		
F2104947012	MCILVAINE		
F2104947013	HUMMINGBIRD		
F2104947014	HOLLYHOCK		
F2104947015	WINDMILL		
F2104947016	EQUIPMENT_BLANK		
WCAg/4497 - EPA 365.3			
F2104947001	BARFIELD_BRIDGE	WCAg/4496	EPA 365.3
F2104947002	OLDE_MARCO	WCAg/4496	EPA 365.3
F2104947003	JH_PARK	WCAg/4496	EPA 365.3
F2104947004	KENDALL	WCAg/4496	EPA 365.3
F2104947005	COLLIER_BRIDGE	WCAg/4496	EPA 365.3
F2104947006	LANDMARK	WCAg/4496	EPA 365.3





Workorder: MARCO (F2104947)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAg/4499 - EPA 365.3			
F2104947007	LANDMARK_DUP	WCAg/4498	EPA 365.3
F2104947008	HC_CENTER	WCAg/4498	EPA 365.3
F2104947009	SWALLOW	WCAg/4498	EPA 365.3
F2104947010	W_WINTERBERRY_BRIDGE	WCAg/4498	EPA 365.3
F2104947011	E_WINTERBERRY_BRIDGE	WCAg/4498	EPA 365.3
F2104947012	MCILVAINE	WCAg/4498	EPA 365.3
F2104947013	HUMMINGBIRD	WCAg/4498	EPA 365.3
F2104947014	HOLLYHOCK	WCAg/4498	EPA 365.3
F2104947015	WINDMILL	WCAg/4498	EPA 365.3
F2104947016	EQUIPMENT_BLANK	WCAg/4498	EPA 365.3
WCAg/4552 - EPA 351.2			
F2104947001	BARFIELD_BRIDGE	WCAg/4517	Copper Sulfate Digestion
F2104947002	OLDE_MARCO	WCAg/4517	Copper Sulfate Digestion
F2104947003	JH_PARK	WCAg/4517	Copper Sulfate Digestion
F2104947004	KENDALL	WCAg/4517	Copper Sulfate Digestion
F2104947005	COLLIER_BRIDGE	WCAg/4517	Copper Sulfate Digestion
F2104947006	LANDMARK	WCAg/4517	Copper Sulfate Digestion
F2104947007	LANDMARK_DUP	WCAg/4517	Copper Sulfate Digestion
F2104947008	HC_CENTER	WCAg/4517	Copper Sulfate Digestion
F2104947009	SWALLOW	WCAg/4517	Copper Sulfate Digestion
WCAg/4555 - EPA 351.2			
F2104947010	W_WINTERBERRY_BRIDGE	WCAg/4518	Copper Sulfate Digestion
F2104947011	E_WINTERBERRY_BRIDGE	WCAg/4518	Copper Sulfate Digestion
F2104947012	MCILVAINE	WCAg/4518	Copper Sulfate Digestion
F2104947013	HUMMINGBIRD	WCAg/4518	Copper Sulfate Digestion
F2104947014	HOLLYHOCK	WCAg/4518	Copper Sulfate Digestion
F2104947015	WINDMILL	WCAg/4518	Copper Sulfate Digestion
F2104947016	EQUIPMENT_BLANK	WCAg/4518	Copper Sulfate Digestion

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Workorder: MARCO (F2104947)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAI/8285 - SM 4500NO3-F (Low Level)			
F2104947001	BARFIELD_BRIDGE		
F2104947002	OLDE_MARCO		
F2104947003	JH_PARK		
F2104947004	KENDALL		
F2104947005	COLLIER_BRIDGE		
F2104947006	LANDMARK		
F2104947007	LANDMARK_DUP		
F2104947008	HC_CENTER		
F2104947009	SWALLOW		
F2104947010	W_WINTERBERRY_BRIDGE		
WCAI/8287 - SM 4500NO3-F (Low Level)			
F2104947011	E_WINTERBERRY_BRIDGE		
F2104947012	MCILVAINE		
F2104947013	HUMMINGBIRD		
F2104947014	HOLLYHOCK		
F2104947015	WINDMILL		
F2104947016	EQUIPMENT_BLANK		

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Queue: WCAg

Batch Number: 4552

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 A2109895005 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.

The matrix spike (MS) recoveries of TKN for F2104947009 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.

Duplicates:



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Queue: WCAg

Batch Number: 4552

The relative percent difference (RPD) for the following analyte(s) in the replicate matrix spike analyses of F2104947009 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.

Serial Dilution: All acceptance criteria were met.



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Workorder: MARCO (F2104947)



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 Fort Myers: 13100 Westlinks Terrace, Ste. 10, Ft. 32913 • 239.574.8130 • Lab ID: E84492
 Jacksonville: 6881 Northwood Pkwy., Ft. 32216 • 904.353.9390 • Lab ID: E82574
 Tallahassee: 2639 North Monroe St., Suite D, Ft. 32303 • 905.219.9274 • Lab ID: E811095

Gainesville: 4665 SW 41st Blvd., Ft. 32608 • 352.377.2399 • Lab ID: E83001
 Miramar: _____
 Tampa: 55 _____



Client Name: City of Marco Island		Project Name: MARCO	
Address: 50 Bald Eagle Dr. Marco Island, FL 314145		Project Number:	
Phone: 239-300-1462		PO Number:	
FAX:		FDEP Facility No.:	
Contact: Jason Tomasesetti		FDEP Facility Addr.:	
Sampled By: P. Manard		Special Instructions:	
Turn Around Time: Standard X Rush		ADAPT	
AEL Profile #: 65884		EQUIS	
SAMPLE ID		Grab Comp	NO. COUNT
SAMPLE DESCRIPTION		DATE	MATRIX
BARFIELD_BRIDGE		11/11/21	SW
OLDE_MARCO		11/11/21	SW
JH_PARK		11/11/21	SW
KENDALL		11/11/21	SW
COLLIER_BRIDGE		11/11/21	SW
LANDMARK		11/11/21	SW
LANDMARK_DUP		11/11/21	SW
HQ_CENTER		11/11/21	SW
SMALLOW		11/11/21	SW
W_WINTERBERRY_BRIDGE		11/11/21	SW

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-0051web 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: 7A) °C

Retinquished by:	Date	Time	Received by:	Date	Time
	11/11/21	1200		11/11/21	1200

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: _____





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Workorder: MARCO (F2104947)



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 Fort Myers: 13100 Westlinks Terrace, Ste. 10, Ft. 33913 - 239.674.8130 - Lab ID: E34492
 Jacksonville: 6681 Southport Pkwy., Ft. 32216 - 904.383.9350 - Lab ID: E32574
 Tallahassee: 2639 North Monroe St., Suite D, Ft. 32303 - 904.219.6274 - Lab ID: E31105

F2104947
 Page 2 of 2

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		Turn Around Time: Standard <input checked="" type="checkbox"/> Rush	
AEL Profile #: 65894		ADAPT: EQUIS Other: WIN	

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
			DATE	TIME					
E_WINTERBERRY_BRIDGE	MCILVAINE	Grab	1/1/21	07:13	SW	4	NO2/NO3	250 mL Plastic	011
	HUMMINGBIRD	Grab	1/1/21	07:26	SW	4	TKN/TP/TN	250 mL Plastic	012
	HOLLYHOCK	Grab	1/1/21	07:44	SW	4	Chlor-A/Turbidity	1L Amb Plastic	013
	WINDMILL	Grab	1/1/21	07:53	SW	4	Enterococci	100 mL Cup	014
	EQUIPMENT_BLANK	Grab	1/1/21	10:16	SW	4			015
									016

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
 DCM: AD-D051web Form last revised 09/07/2019 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*

FOR DRINKING WATER USE:
 Temp. when received (observed) *8.7* °C Temp. when received (corrected) *8.7* °C
 Contact Person: _____
 Supplier of Water: _____
 Site Address: _____

