

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-533-8600



To: Natural Resources Management
1500 Monroe St
Fort Myers FL 33901
RE: Tidal Caloosa

Report Date: 3/17/2023

Below are the results of samples submitted to this laboratory on 3/1/2023

Laboratory ID	AF52300	Collection date and time	3/1/2023 9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #326		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.80	I	mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Pheophytin	2.61		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	88.4		%	0.1		3/1/2023	9:25 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.5		mg/L	0.3	1.2	3/2/2023	10:31 AM	SM 5210 B
Color	39.5		CU	1.25	5.00	3/2/2023	2:00 PM	SM21 2120 C
Specific Conductance, By Client	29700		µmhos/cm			3/1/2023	9:25 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.52		mg/L			3/1/2023	9:25 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		3/1/2023	3:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/2/2023	10:27 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	3/2/2023	1:48 PM	EPA 353.2
Nitrate as N	0.012	I	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrate + Nitrite as N	0.015	I	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrogen, Organic	1.0		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN - NH3
Phosphorus, Ortho as P	0.025		mg/L as P	0.005	0.020	3/2/2023	1:19 PM	EPA 365.1
pH, Field (electrometric) by Client	7.81		units			3/1/2023	9:25 AM	FDEP FT1100
Salinity by meter by Client	18.33		SU			3/1/2023	9:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.8	S	meters			3/1/2023	9:25 AM	FDEP FT 1700
Depth of Water Body	2.8		Meters			3/1/2023	9:25 AM	FS2100
Field Temperature by client	25.5		°C			3/1/2023	9:25 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.0		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	3/10/2023	4:14 PM	SM 5310 B
Phosphorus, Total as P	0.051		mg/L as P	0.006	0.024	3/13/2023	8:46 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF52300	Collection date and time	3/1/2023	9:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #326			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	3.30		mg/L	0.6	2.4	3/2/2023	9:10 AM	SM 2540 D
Turbidity (Nephelometric)	0.730	I	NTU	0.2	0.8	3/2/2023	2:10 PM	EPA 180.1

Laboratory ID	AF52301	Collection date and time	3/1/2023	10:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #395			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.24		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Pheophytin	7.40		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	101.2		%	0.1		3/1/2023	10:40 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.3		mg/L	0.3	1.2	3/2/2023	10:31 AM	SM 5210 B
Color	52.3		CU	1.25	5.00	3/2/2023	2:00 PM	SM21 2120 C
Specific Conductance, By Client	22900		µmhos/cm			3/1/2023	10:40 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.65		mg/L			3/1/2023	10:40 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		3/1/2023	3:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/2/2023	10:27 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	3/2/2023	1:48 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrogen, Organic	0.86		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN - NH3
Phosphorus, Ortho as P	0.026		mg/L as P	0.005	0.020	3/2/2023	1:19 PM	EPA 365.1
pH, Field (electrometric) by Client	8.02		units			3/1/2023	10:40 AM	FDEP FT1100
Salinity by meter by Client	13.77		SU			3/1/2023	10:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.9	S	meters			3/1/2023	10:40 AM	FDEP FT 1700
Depth of Water Body	0.9		Meters			3/1/2023	10:40 AM	FS2100
Field Temperature by client	25.6		°C			3/1/2023	10:40 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.86		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	EPA 351.2
Nitrogen, Total	0.86		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN + NOX
Total Organic Carbon (NPOC)	12		mg/L	1	4	3/10/2023	4:14 PM	SM 5310 B
Phosphorus, Total as P	0.055		mg/L as P	0.006	0.024	3/13/2023	8:46 AM	EPA 365.1
Total Suspended Solids	3.60		mg/L	0.6	2.4	3/2/2023	9:10 AM	SM 2540 D
Turbidity (Nephelometric)	1.63		NTU	0.2	0.8	3/2/2023	2:10 PM	EPA 180.1



Laboratory ID	AF52302	Collection date and time	3/1/2023	12:45 PM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #462			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	6.05		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Pheophytin	19.10		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	92.6		%	0.1		3/1/2023	12:45 PM	FDEP FT1500
Biochemical Oxygen Demand 5 day	2.1		mg/L	0.3	1.2	3/2/2023	10:31 AM	SM 5210 B
Color	102		CU	1.25	5.00	3/2/2023	2:00 PM	SM21 2120 C
Specific Conductance, By Client	433700		µmhos/cm			3/1/2023	12:45 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.38		mg/L			3/1/2023	12:45 PM	FDEP FT1500
Enterococci	10		MPN/100mL	10		3/1/2023	3:12 PM	Enterolert®
Ammonia as N	0.016	I	mg/L as N	0.014	0.056	3/9/2023	9:00 AM	EPA 350.1
Nitrite as N	0.011	I	mg/L as N	0.003	0.012	3/2/2023	1:48 PM	EPA 353.2
Nitrate as N	0.114		mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrate + Nitrite as N	0.125		mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN - NH3
Phosphorus, Ortho as P	0.042		mg/L as P	0.005	0.020	3/2/2023	1:19 PM	EPA 365.1
pH, Field (electrometric) by Client	8.07		units			3/1/2023	12:45 PM	FDEP FT1100
Salinity by meter by Client	0.21		SU			3/1/2023	12:45 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.6		meters			3/1/2023	12:45 PM	FDEP FT 1700
Depth of Water Body	2.2		Meters			3/1/2023	12:45 PM	FS2100
Field Temperature by client	27.0		°C			3/1/2023	12:45 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN + NOX
Total Organic Carbon (NPOC)	17		mg/L	1	4	3/10/2023	4:14 PM	SM 5310 B
Phosphorus, Total as P	0.11		mg/L as P	0.006	0.024	3/13/2023	8:46 AM	EPA 365.1
Total Suspended Solids	4.00		mg/L	0.6	2.4	3/2/2023	9:10 AM	SM 2540 D
Turbidity (Nephelometric)	5.94		NTU	0.2	0.8	3/2/2023	2:10 PM	EPA 180.1

Laboratory ID	AF52303	Collection date and time	3/1/2023	10:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #389			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.71	I	mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Pheophytin	4.03		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	4.7		%	0.1		3/1/2023	10:05 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.2	I	mg/L	0.3	1.2	3/2/2023	10:31 AM	SM 5210 B
Color	50.7		CU	1.25	5.00	3/2/2023	2:00 PM	SM21 2120 C

Report Format: NELAC

DOH #E45049



Laboratory ID	AF52303	Collection date and time	3/1/2023	10:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #389			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Specific Conductance, By Client	26100		µmhos/cm			3/1/2023	10:05 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.16		mg/L			3/1/2023	10:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/1/2023	3:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/2/2023	10:27 AM	EPA 350.1
Nitrite as N	0.003	I	mg/L as N	0.003	0.012	3/2/2023	1:48 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrogen, Organic	0.94		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN - NH3
Phosphorus, Ortho as P	0.026		mg/L as P	0.005	0.020	3/2/2023	1:19 PM	EPA 365.1
pH, Field (electrometric) by Client	7.96		units			3/1/2023	10:05 AM	FDEP FT1100
Salinity by meter by Client	15.91		SU			3/1/2023	10:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.0	S	meters			3/1/2023	10:05 AM	FDEP FT 1700
Depth of Water Body	2.0		Meters			3/1/2023	10:05 AM	FS2100
Field Temperature by client	25.2		°C			3/1/2023	10:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.94		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	EPA 351.2
Nitrogen, Total	0.94		mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN + NOX
Total Organic Carbon (NPOC)	12		mg/L	1	4	3/10/2023	4:14 PM	SM 5310 B
Phosphorus, Total as P	0.053		mg/L as P	0.006	0.024	3/13/2023	8:46 AM	EPA 365.1
Total Suspended Solids	2.20	I	mg/L	0.6	2.4	3/2/2023	9:10 AM	SM 2540 D
Turbidity (Nephelometric)	1.17		NTU	0.2	0.8	3/2/2023	2:10 PM	EPA 180.1

Laboratory ID	AF52304	Collection date and time	3/1/2023	11:30 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #429			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.86		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Pheophytin	2.90		mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Dissolved Oxygen % Saturation by Client	101.5		%	0.1		3/1/2023	11:30 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.2		mg/L	0.3	1.2	3/2/2023	10:31 AM	SM 5210 B
Color	73.3		CU	1.25	5.00	3/2/2023	2:00 PM	SM21 2120 C
Specific Conductance, By Client	10700		µmhos/cm			3/1/2023	11:30 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.95		mg/L			3/1/2023	11:30 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/1/2023	3:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/9/2023	9:00 AM	EPA 350.1
Nitrite as N	0.005	I	mg/L as N	0.003	0.012	3/2/2023	1:48 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF52304	Collection date and time	3/1/2023 11:30 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #429		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate as N	0.076		mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrate + Nitrite as N	0.081		mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrogen, Organic	0.93		mg/L as N	0.10	0.4	3/14/2023	8:59 AM	TKN - NH3
Phosphorus, Ortho as P	0.045		mg/L as P	0.005	0.020	3/2/2023	1:19 PM	EPA 365.1
pH, Field (electrometric) by Client	8.05		units			3/1/2023	11:30 AM	FDEP FT1100
Salinity by meter by Client	6.02		SU			3/1/2023	11:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.45		meters			3/1/2023	11:30 AM	FDEP FT 1700
Depth of Water Body	2.5		Meters			3/1/2023	11:30 AM	FS2100
Field Temperature by client	26.0		°C			3/1/2023	11:30 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.93		mg/L as N	0.10	0.4	3/14/2023	8:59 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.10	0.4	3/14/2023	8:59 AM	TKN + NOX
Total Organic Carbon (NPOC)	16		mg/L	1	4	3/10/2023	4:14 PM	SM 5310 B
Phosphorus, Total as P	0.072		mg/L as P	0.006	0.024	3/14/2023	9:01 AM	EPA 365.1
Total Suspended Solids	1.30	I	mg/L	0.6	2.4	3/2/2023	9:10 AM	SM 2540 D
Turbidity (Nephelometric)	5.05		NTU	0.2	0.8	3/2/2023	2:10 PM	EPA 180.1

Laboratory ID	AF52305	Collection date and time	3/1/2023 2:25 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #462		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.50	U	mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	3/10/2023	7:21 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	3/2/2023	10:31 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	3/2/2023	2:00 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		3/1/2023	3:12 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	3/2/2023	10:27 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	3/2/2023	1:48 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	3/2/2023	1:48 PM	EPA 353.2
Nitrogen, Organic	0.1000	U	mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	3/2/2023	1:19 PM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	3/13/2023	8:44 AM	EPA 351.2
Nitrogen, Total	0.1000	U	mg/L as N	0.10	0.4	3/13/2023	8:44 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	3/10/2023	4:14 PM	SM 5310 B
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	3/13/2023	8:46 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



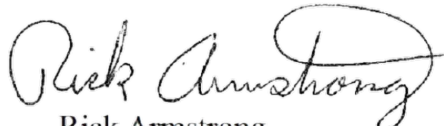
Laboratory ID	AF52305	Collection date and time	3/1/2023 2:25 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #462		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	3/2/2023	9:10 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	3/2/2023	2:10 PM	EPA 180.1

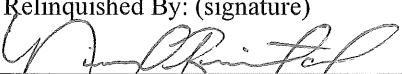
Qualifiers:

- I The value is less than, or equal to, the laboratory's practical quantitation limit (PQL) and greater than the minimum detection limit (MDL).
- S Secchi disk visible to bottom of waterbody. Value reported is the depth of the waterbody at the location of Secchi disk measurement.
- U Indicates that the compound was analyzed for but not detected.

Unless noted otherwise, these test results meet all the requirements of the 2016 NELAC/ TNI Standards. The results provided herein relate only to the samples cited as they were received by the laboratory. All questions regarding this report should be directed to Rick Armstrong, Laboratory Manager.


Rick Armstrong
Lab Manager
Lee County Environmental Lab



Report/Result Information				Billing/Invoice Information				Page 1 of 1											
Name: Tidal Caloosa				Name: DNRM				Matrix Codes: DW-Drinking water GW- Ground water WW-Waste water SW-Surface water WWS-Wastewater Sludge S-Sediment O-Other				Preservative Codes: NP-No Preservative N-Nitric Acid S-Sulfuric Acid H-Hydrochloric Acid SH-Sodium Hydroxide ST-Sodium Thiosulfate O-Other							
Distrib List: FDEP - South				RE: CCHMN-Tidal Caloosa															
Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901				Address: 1500 Monroe St Ft Myers, FL 33901															
Phone: (239) 344-5719				Phone: (239) 533-8109															
Sample Collector(s) (please print): Nicole Reistad/Monica Jaeger				Sample Collector Signature: 				Analyses Required \$Chloroa, _prep O-PO4, Color, NOX TOC NH3, TKN, TN, T-PO4, NO3, ONIT Turb, NO2, TSS, Silica, Bod, Bod₅ / 5 3/1/23 Enter											
Relinquished By: (signature) 		Date 03/01/23		Time 1502		Received By: (signature) 													
Relinquished By: (signature)		Date		Time		Received By: (signature)													
Relinquished By: (signature)		Date		Time		Received By: (signature)													
Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 3.1°C								NP		NPF		S		S		NP		ST	
Collection Date Time		Sample Description & Location		Matrix (see codes)		# of Sample Containers Submitted						Lab ID #							
03/01/23 0925		CRNEP_RS #326		SWE		1		1		1		1		2		1		AF52300	
03/01/23 1040		CRNEP_RS #395		SWE		1		1		1		1		2		1		AF52301	
03/01/23 1245		CRNEP_RS #462		SWE		1		1		1		1		2		1		AF52302	
03/01/23 1005		CRNEP_RS #389 386 #4		SWE		1		1		1		1		2		1		AF52303	
03/01/23 1130		CRNEP_RS #429		SWE		1		1		1		1		2		1		AF52304	
03/01/23 1425		CRNEP_EQ # @ 462		SWE		1		1		1		1		2		1		AF52305	

**SAMPLES SHOULD BE IN WET ICE & LESS THAN 6° C (42.8°F)
OR THEY MAYBE QUALIFIED***

*Qualified = the data may not be accurate and regulatory agencies may not accept qualified data.