

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: 9/20/2021

Below are the results of samples submitted to this laboratory on 9/8/2021

Laboratory ID	AE98567	Collection date and time	9/8/2021 11:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/BAKER
Sample Description	Grid #423		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.75	I	mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Pheophytin	4.15		mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	9/9/2021	11:26 AM	SM 5210 B
Color	98.9		CU	1.25	5.00	9/8/2021	3:01 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	4.84		mg/L			9/8/2021	11:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		9/8/2021	2:28 PM	Enterolert®
Ammonia	0.026	I	mg/L as N	0.014	0.056	9/10/2021	9:12 AM	EPA 350.1
Nitrite	0.008	I	mg/L as N	0.003	0.012	9/9/2021	12:29 PM	EPA 353.2
Nitrate	0.224		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrate + Nitrite	0.232		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrogen, Organic	0.86		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN - NH3
Phosphorus, Ortho	0.101		mg/L as P	0.005	0.020	9/8/2021	4:12 PM	EPA 365.1
Salinity by meter by Client	1.30		SU			9/8/2021	11:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.9	S	meters			9/8/2021	11:05 AM	FDEP FT 1700
Silica, dissolved as SiO2	11		mg/L as SiO2	0.1	0.4	9/8/2021	2:30 PM	SM4500-SiO2 C
Depth of Water Body	0.9		Meters			9/8/2021	11:05 AM	FS2100
Nitrogen, Kjeldahl, Total	0.89		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN + NOX
Total Organic Carbon	19		mg/L	1	4	9/14/2021	4:14 PM	SM 5310 B
Phosphorus, Total	0.14		mg/L as P	0.006	0.024	9/13/2021	8:43 AM	EPA 365.1
Total Suspended Solids	2.10	I	mg/L	0.6	2.4	9/9/2021	9:48 AM	SM 2540 D
Turbidity (Nephelometric)	1.68		NTU	0.2	0.8	9/9/2021	9:20 AM	EPA 180.1



Laboratory ID	AE98568	Collection date and time	9/8/2021 9:30 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/BAKER
Sample Description	Grid #387		

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	9/16/2021	7:31 AM	SM21 10200 H
Pheophytin	2.47		mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.6	I	mg/L	0.3	1.2	9/9/2021	11:26 AM	SM 5210 B
Color	69.6		CU	1.25	5.00	9/8/2021	3:01 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.19		mg/L			9/8/2021	9:30 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		9/8/2021	2:28 PM	Enterolert®
Ammonia	0.048	I	mg/L as N	0.014	0.056	9/10/2021	9:12 AM	EPA 350.1
Nitrite	0.011	I	mg/L as N	0.003	0.012	9/9/2021	12:29 PM	EPA 353.2
Nitrate	0.209		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrate + Nitrite	0.220		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrogen, Organic	0.78		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN - NH3
Phosphorus, Ortho	0.086		mg/L as P	0.005	0.020	9/8/2021	4:12 PM	EPA 365.1
Salinity by meter by Client	10.25		SU			9/8/2021	9:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.1		meters			9/8/2021	9:30 AM	FDEP FT 1700
Silica, dissolved as SiO2	7.9		mg/L as SiO2	0.1	0.4	9/8/2021	2:30 PM	SM4500-SiO2 C
Depth of Water Body	2.6		Meters			9/8/2021	9:30 AM	FS2100
Nitrogen, Kjeldahl, Total	0.83		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN + NOX
Total Organic Carbon	17		mg/L	1	4	9/14/2021	4:14 PM	SM 5310 B
Phosphorus, Total	0.11		mg/L as P	0.006	0.024	9/13/2021	8:43 AM	EPA 365.1
Total Suspended Solids	2.85		mg/L	0.6	2.4	9/9/2021	9:48 AM	SM 2540 D
Turbidity (Nephelometric)	1.16		NTU	0.2	0.8	9/9/2021	9:20 AM	EPA 180.1

Laboratory ID	AE98570	Collection date and time	9/8/2021 10:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/BAKER
Sample Description	Grid #413		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.73	I	mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Pheophytin	3.36		mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.6	I	mg/L	0.3	1.2	9/9/2021	11:26 AM	SM 5210 B
Color	92.6		CU	1.25	5.00	9/8/2021	3:01 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.58		mg/L			9/8/2021	10:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		9/8/2021	2:28 PM	Enterolert®
Ammonia	0.031	I	mg/L as N	0.014	0.056	9/10/2021	9:12 AM	EPA 350.1
Nitrite	0.009	I	mg/L as N	0.003	0.012	9/9/2021	12:29 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AE98570	Collection date and time	9/8/2021 10:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/BAKER
Sample Description	Grid #413		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate	0.265		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrate + Nitrite	0.274		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrogen, Organic	0.86		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN - NH3
Phosphorus, Ortho	0.101		mg/L as P	0.005	0.020	9/8/2021	4:12 PM	EPA 365.1
Salinity by meter by Client	2.29		SU			9/8/2021	10:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.95		meters			9/8/2021	10:35 AM	FDEP FT 1700
Silica, dissolved as SiO2	10		mg/L as SiO2	0.1	0.4	9/8/2021	2:30 PM	SM4500-SiO2 C
Depth of Water Body	2.5		Meters			9/8/2021	10:35 AM	FS2100
Nitrogen, Kjeldahl, Total	0.89		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN + NOX
Total Organic Carbon	19		mg/L	1	4	9/14/2021	4:14 PM	SM 5310 B
Phosphorus, Total	0.14		mg/L as P	0.006	0.024	9/13/2021	8:43 AM	EPA 365.1
Total Suspended Solids	1.05	I	mg/L	0.6	2.4	9/10/2021	9:18 AM	SM 2540 D
Turbidity (Nephelometric)	1.30		NTU	0.2	0.8	9/9/2021	9:20 AM	EPA 180.1

Laboratory ID	AE98572	Collection date and time	9/8/2021 11:50 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/BAKER
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.80		mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	9/9/2021	11:26 AM	SM 5210 B
Color	117		CU	1.25	5.00	9/8/2021	3:01 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	4.49		mg/L			9/8/2021	11:50 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		9/8/2021	2:28 PM	Enterolert®
Ammonia	0.017	I	mg/L as N	0.014	0.056	9/10/2021	9:12 AM	EPA 350.1
Nitrite	0.016		mg/L as N	0.003	0.012	9/9/2021	12:29 PM	EPA 353.2
Nitrate	0.276		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrate + Nitrite	0.292		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrogen, Organic	0.80		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN - NH3
Phosphorus, Ortho	0.097		mg/L as P	0.005	0.020	9/8/2021	4:12 PM	EPA 365.1
Salinity by meter by Client	0.25		SU			9/8/2021	11:50 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			9/8/2021	11:50 AM	FDEP FT 1700
Silica, dissolved as SiO2	10		mg/L as SiO2	0.1	0.4	9/8/2021	2:30 PM	SM4500-SiO2 C
Depth of Water Body	2.0		Meters			9/8/2021	11:50 AM	FS2100

Report Format: NELAC

DOH #E45049



Laboratory ID	AE98572	Collection date and time	9/8/2021 11:50 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/BAKER
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrogen, Kjeldahl, Total	0.82		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN + NOX
Total Organic Carbon	20		mg/L	1	4	9/14/2021	4:14 PM	SM 5310 B
Phosphorus, Total	0.13		mg/L as P	0.006	0.024	9/13/2021	8:43 AM	EPA 365.1
Total Suspended Solids	1.55	I	mg/L	0.6	2.4	9/10/2021	9:18 AM	SM 2540 D
Turbidity (Nephelometric)	1.49		NTU	0.2	0.8	9/9/2021	9:20 AM	EPA 180.1

Laboratory ID	AE98573	Collection date and time	9/8/2021 10:10 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/BAKER
Sample Description	Grid #404		

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	9/16/2021	7:31 AM	SM21 10200 H
Pheophytin	3.79		mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	9/9/2021	11:26 AM	SM 5210 B
Color	79.7		CU	1.25	5.0	9/8/2021	3:01 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.24		mg/L			9/8/2021	10:10 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		9/8/2021	2:28 PM	Enterolert®
Ammonia	0.054	I	mg/L as N	0.014	0.056	9/10/2021	9:12 AM	EPA 350.1
Nitrite	0.010	I	mg/L as N	0.003	0.012	9/9/2021	12:29 PM	EPA 353.2
Nitrate	0.249		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrate + Nitrite	0.259		mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrogen, Organic	0.75		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN - NH3
Phosphorus, Ortho	0.099		mg/L as P	0.005	0.020	9/8/2021	4:12 PM	EPA 365.1
Salinity by meter by Client	5.30		SU			9/8/2021	10:10 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.1		meters			9/8/2021	10:10 AM	FDEP FT 1700
Silica, dissolved as SiO2	9.4		mg/L as SiO2	0.1	0.4	9/8/2021	2:30 PM	SM4500-SiO2 C
Depth of Water Body	1.9		Meters			9/8/2021	10:10 AM	FS2100
Nitrogen, Kjeldahl, Total	0.80		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN + NOX
Total Organic Carbon	17		mg/L	1	4	9/14/2021	4:14 PM	SM 5310 B
Phosphorus, Total	0.13		mg/L as P	0.006	0.024	9/13/2021	8:43 AM	EPA 365.1
Total Suspended Solids	2.50		mg/L	0.6	2.4	9/10/2021	9:18 AM	SM 2540 D
Turbidity (Nephelometric)	1.99		NTU	0.2	0.8	9/9/2021	9:20 AM	EPA 180.1



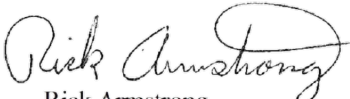
Laboratory ID	AE98574	Collection date and time	9/8/2021 12:40 PM
Location Code	CRNEP_EQ	Sample Collector	REISTADT/BAKER
Sample Description	EB Site #		

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	9/16/2021	7:31 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	9/16/2021	7:31 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	9/9/2021	11:26 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.0	9/8/2021	3:01 PM	SM21 2120 C
Enterococci	10	U	MPN/100mL	10		9/8/2021	2:28 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	9/10/2021	9:12 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	9/9/2021	12:29 PM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	9/9/2021	12:29 PM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN - NH3
Phosphorus, Ortho	0.005	U	mg/L as P	0.005	0.020	9/8/2021	4:12 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	9/8/2021	2:30 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	9/13/2021	8:41 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	9/13/2021	8:41 AM	TKN + NOX
Total Organic Carbon	1.000	U	mg/L	1	4	9/14/2021	4:14 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	9/13/2021	8:43 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	9/9/2021	9:48 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	9/9/2021	9:20 AM	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



LCEL

Lee County Environmental Laboratory
60 S Danley Dr Unit 2
Fort Myers, FL 33907
Phone: (239) 533-8600

Analysis Request & Chain of Custody Record

Lab Certification: E45049
LCEL F COC 20150828R1

LCEL does not accept any samples used for evidentiary purposes

Page 1 of 1

Report/Result Information

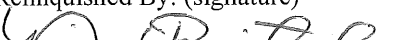
Billing/Invoice Information

Name: FDEP - South	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
ATTN: Kirby Wolfe	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): *Thomas Baker*
Nicole Reistadt/Monica Jaeger

Sample Collector Signature:

Analyses Required

Relinquished By: (signature)	Date	Time	Received By: (signature)	\$Chloroa, _prep	O-PO4, Color, NOX	TOC	NH3, TKN, TN, T-PO4, NO3, ONIT	Turb, NO2, TSS, Silica, , Bod, Bodi	Mug2QT, Entero	
	09/08/21	1420								
Relinquished By: (signature)	Date	Time	Received By: (signature)							
Relinquished By: (signature)	Date	Time	Received By: (signature)							
Preservatives (see codes)										

Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: *1.5°C*

NP NPF S S NP ST

Collection Date	Time	Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
09/08/21	1105	CRNEP_RS #423	SWE	1	1	1	1	2	1	AE98567
09/08/21	0930	CRNEP_RS #387	SWE	1	1	1	1	2	1	AE98568
09/08/21		CRNEP_RSBOT #387 Bottom <i>NOT TAKEN</i>	SWE	1	1	1	1	2	1	AE98569
09/08/21	1035	CRNEP_RS #413	SWE	1	1	1	1	2	1	AE98570
09/08/21		CRNEP_RSBOT #413 Bottom <i>NOT TAKEN</i>	SWE	1	1	1	1	2	1	AE98571
09/08/21	1150	CRNEP_RS #449	SWE	1	1	1	1	2	1	AE98572
09/08/21	1010	CRNEP_RS #404	SWE	1	1	1	1	2	1	AE98573
09/08/21	1240	CRNEP_EQ #	SWE	1	1	1	1	2	1	AE98574

**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.