

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: 7/1/2021

Below are the results of samples submitted to this laboratory on 6/23/2021

Laboratory ID	AE89926	Collection date and time	6/23/2021 10:45 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JEAGER
Sample Description	Grid #441		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.06		mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Pheophytin	10.03		mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.3	V1	mg/L	0.3	1.2	6/24/2021	12:00 PM	SM 5210 B
Color	42.5		CU	1.25	5.00	6/23/2021	2:49 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.92		mg/L			6/23/2021	10:45 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/23/2021	2:16 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	6/25/2021	9:01 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	6/23/2021	2:15 PM	EPA 353.2
Nitrate	0.011	I	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrate + Nitrite	0.014	I	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN - NH3
Phosphorus, Ortho	0.069		mg/L as P	0.004	0.016	6/23/2021	2:15 PM	EPA 365.1
Salinity by meter by Client	5.97		SU			6/23/2021	10:45 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.0		meters			6/23/2021	10:45 AM	FDEP FT 1700
Silica, dissolved as SiO2	6.2		mg/L as SiO2	0.1	0.4	6/23/2021	2:15 PM	SM4500-SiO2 C
Depth of Water Body	2.8		Meters			6/23/2021	10:45 AM	FS2100
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN + NOX
Total Organic Carbon	13		mg/L	1	4	6/25/2021	12:45 PM	SM 5310 B
Phosphorus, Total	0.12		mg/L as P	0.006	0.024	6/29/2021	8:41 AM	EPA 365.1
Total Suspended Solids	4.85		mg/L	0.6	2.4	6/24/2021	10:28 AM	SM 2540 D
Turbidity (Nephelometric)	2.27		NTU	0.2	0.8	6/24/2021	1:31 PM	EPA 180.1



Laboratory ID	AE89928	Collection date and time	6/23/2021 9:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JEAGER
Sample Description	Grid #389		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	3.24		mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Pheophytin	0.60	I	mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.3	V1	mg/L	0.3	1.2	6/24/2021	12:00 PM	SM 5210 B
Color	25.3		CU	1.25	5.00	6/23/2021	2:49 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.29		mg/L			6/23/2021	9:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/23/2021	2:16 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	6/25/2021	9:01 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	6/23/2021	2:15 PM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrogen, Organic	0.92		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN - NH3
Phosphorus, Ortho	0.040		mg/L as P	0.004	0.016	6/23/2021	2:15 PM	EPA 365.1
Salinity by meter by Client	16.12		SU			6/23/2021	9:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.4	S	meters			6/23/2021	9:05 AM	FDEP FT 1700
Silica, dissolved as SiO2	4.4		mg/L as SiO2	0.1	0.4	6/23/2021	2:15 PM	SM4500-SiO2 C
Depth of Water Body	1.4		Meters			6/23/2021	9:05 AM	FS2100
Nitrogen, Kjeldahl, Total	0.92		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	EPA 351.2
Nitrogen, Total	0.92		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN + NOX
Total Organic Carbon	10.0		mg/L	1	4	6/25/2021	12:45 PM	SM 5310 B
Phosphorus, Total	0.080		mg/L as P	0.006	0.024	6/29/2021	8:41 AM	EPA 365.1
Total Suspended Solids	0.900	I	mg/L	0.6	2.4	6/24/2021	10:28 AM	SM 2540 D
Turbidity (Nephelometric)	1.17		NTU	0.2	0.8	6/24/2021	1:31 PM	EPA 180.1

Laboratory ID	AE89929	Collection date and time	6/23/2021 11:30 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JEAGER
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.88		mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Pheophytin	10.32		mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	V1 I	mg/L	0.3	1.2	6/24/2021	12:00 PM	SM 5210 B
Color	47.5		CU	1.25	5.00	6/23/2021	2:49 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.46		mg/L			6/23/2021	11:30 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/23/2021	2:16 PM	Enterolert®
Ammonia	0.065		mg/L as N	0.014	0.056	6/25/2021	9:01 AM	EPA 350.1
Nitrite	0.008	I	mg/L as N	0.003	0.012	6/23/2021	2:15 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AE89929	Collection date and time	6/23/2021 11:30 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JEAGER
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate	0.108		mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrate + Nitrite	0.116		mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrogen, Organic	0.80		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN - NH3
Phosphorus, Ortho	0.099		mg/L as P	0.004	0.016	6/23/2021	2:15 PM	EPA 365.1
Salinity by meter by Client	1.76		SU			6/23/2021	11:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7		meters			6/23/2021	11:30 AM	FDEP FT 1700
Silica, dissolved as SiO2	8.5		mg/L as SiO2	0.1	0.4	6/23/2021	2:15 PM	SM4500-SiO2 C
Depth of Water Body	1.0		Meters			6/23/2021	11:30 AM	FS2100
Nitrogen, Kjeldahl, Total	0.86		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	EPA 351.2
Nitrogen, Total	0.98		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN + NOX
Total Organic Carbon	15		mg/L	1	4	6/25/2021	12:45 PM	SM 5310 B
Phosphorus, Total	0.17		mg/L as P	0.006	0.024	6/29/2021	8:41 AM	EPA 365.1
Total Suspended Solids	6.75		mg/L	0.6	2.4	6/24/2021	10:28 AM	SM 2540 D
Turbidity (Nephelometric)	5.92		NTU	0.2	0.8	6/24/2021	1:31 PM	EPA 180.1

Laboratory ID	AE89930	Collection date and time	6/23/2021 10:00 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JEAGER
Sample Description	Grid #412		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.26		mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Pheophytin	1.94	I	mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.9	V1 I	mg/L	0.3	1.2	6/24/2021	12:00 PM	SM 5210 B
Color	29.5		CU	1.25	5.00	6/23/2021	2:49 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.63		mg/L			6/23/2021	10:00 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/23/2021	2:16 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	6/25/2021	9:01 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	6/23/2021	2:15 PM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrogen, Organic	0.75		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN - NH3
Phosphorus, Ortho	0.045		mg/L as P	0.004	0.016	6/23/2021	2:15 PM	EPA 365.1
Salinity by meter by Client	11.9		SU			6/23/2021	10:00 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.4	S	meters			6/23/2021	10:00 AM	FDEP FT 1700
Silica, dissolved as SiO2	4.5		mg/L as SiO2	0.1	0.4	6/23/2021	2:15 PM	SM4500-SiO2 C
Depth of Water Body	1.4		Meters			6/23/2021	10:00 AM	FS2100

Report Format: NELAC

DOH #E45049



Laboratory ID	AE89930	Collection date and time	6/23/2021 10:00 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JEAGER
Sample Description	Grid #412		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrogen, Kjeldahl, Total	0.75		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	EPA 351.2
Nitrogen, Total	0.75		mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN + NOX
Total Organic Carbon	11		mg/L	1	4	6/25/2021	12:45 PM	SM 5310 B
Phosphorus, Total	0.084		mg/L as P	0.006	0.024	6/29/2021	8:41 AM	EPA 365.1
Total Suspended Solids	3.25		mg/L	0.6	2.4	6/24/2021	10:28 AM	SM 2540 D
Turbidity (Nephelometric)	0.950		NTU	0.2	0.8	6/24/2021	1:31 PM	EPA 180.1

Laboratory ID	AE89931	Collection date and time	6/23/2021 12:35 PM
Location Code	CRNEP_EQ	Sample Collector	REISTADT/JEAGER
Sample Description	EB Site #441		

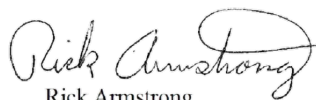
Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.50	U	mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	6/28/2021	7:35 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	6/24/2021	12:00 PM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	6/23/2021	2:49 PM	SM21 2120 C
Enterococci	10	U	MPN/100mL	10		6/23/2021	2:16 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	6/25/2021	9:01 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	6/23/2021	2:15 PM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	6/23/2021	2:15 PM	EPA 353.2
Nitrogen, Organic	0.050	U	mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN - NH3
Phosphorus, Ortho	0.004	U	mg/L as P	0.004	0.016	6/23/2021	2:15 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	6/23/2021	2:15 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.05	U	mg/L as N	0.05	0.2	6/29/2021	8:39 AM	EPA 351.2
Nitrogen, Total	0.050	U	mg/L as N	0.05	0.2	6/29/2021	8:39 AM	TKN + NOX
Total Organic Carbon	1.000	U	mg/L	1	4	6/25/2021	12:45 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	6/29/2021	8:41 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	6/24/2021	10:28 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	6/24/2021	1:31 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.
- V1 Indicates that the analyte was detected in both the sample and associated field blank at a level of <5X the blank value.
- V1 I Analyte found in both sample & field blank @ <5X the blank value. The value is > the MDL and < or = to the PQL.

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

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Chain of Custody Record

Lab Certification: E45049

LCEL F COC 20150828R1

LCEL does not accept any samples used for evidentiary purposes

Report/Result Information

Billing/Invoice Information

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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): 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, Bodi Mug2QT, Entero						
Relinquished By: (signature)	Date	Time	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: 6.72				Preservatives (see codes)						
Collection Date Time		Sample Description & Location		Matrix (see codes)		# of Sample Containers Submitted		Lab ID #		
06/23/21	1045	CRNEP_RS #441	SWE	1	1	1	1	2	1	AE89926
		CRNEP_RS #455 DID NOT SAMPLE	SWE	1	1	1	1	2	1	AE89927
06/23/21	0905	CRNEP_RS #389	SWE	1	1	1	1	2	1	AE89928
06/23/21	1130	CRNEP_RS #449	SWE	1	1	1	1	2	1	AE89929
06/23/21	1000	CRNEP_RS #412	SWE	1	1	1	1	2	1	AE89930
06/23/21	1235	CRNEP_EQ #	SWE	1	1	1	1	2	1	AE89931

**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.