

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: 12/7/2021

Below are the results of samples submitted to this laboratory on 11/17/2021

Laboratory ID	AF06184	Collection date and time	11/17/2021 11:10 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #423		

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	11/27/2021	11:00 AM	SM21 10200 H
Pheophytin	3.11		mg/M3	0.5	2.0	11/27/2021	11:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.6	I	mg/L	0.3	1.2	11/18/2021	11:26 AM	SM 5210 B
Color	110		CU	1.25	5.00	11/18/2021	1:53 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.98		mg/L			11/17/2021	11:10 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		11/17/2021	3:23 PM	Enterolert®
Ammonia	0.022	I	mg/L as N	0.014	0.056	11/19/2021	9:38 AM	EPA 350.1
Nitrite	0.011	I	mg/L as N	0.003	0.012	11/18/2021	11:27 AM	EPA 353.2
Nitrate	0.355		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrate + Nitrite	0.366		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrogen, Organic	0.89		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN - NH3
Phosphorus, Ortho	0.099		mg/L as P	0.005	0.020	11/18/2021	2:02 PM	EPA 365.1
Salinity by meter by Client	4.45		SU			11/17/2021	11:10 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.75		meters			11/17/2021	11:10 AM	FDEP FT 1700
Silica, dissolved as SiO2	8.8		mg/L as SiO2	0.1	0.4	11/18/2021	12:11 PM	SM4500-SiO2 C
Depth of Water Body	1.9		Meters			11/17/2021	11:10 AM	FS2100
Nitrogen, Kjeldahl, Total	0.91		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	12/3/2021	11:09 AM	SM 5310 B
Phosphorus, Total	0.13		mg/L as P	0.006	0.024	11/23/2021	8:57 AM	EPA 365.1
Total Suspended Solids	2.35	I	mg/L	0.6	2.4	11/18/2021	9:19 AM	SM 2540 D
Turbidity (Nephelometric)	1.86		NTU	0.2	0.8	11/18/2021	12:19 PM	EPA 180.1



Laboratory ID	AF06185	Collection date and time	11/17/2021 12:40 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #470		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.34		mg/M3	0.5	2.0	11/30/2021	7:30 AM	SM21 10200 H
Pheophytin	2.56		mg/M3	0.5	2.0	11/30/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.9	I	mg/L	0.3	1.2	11/18/2021	11:26 AM	SM 5210 B
Color	137		CU	1.25	5.00	11/18/2021	1:53 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.41		mg/L			11/17/2021	12:40 PM	FDEP FT1500
Enterococci	10		MPN/100mL	10		11/17/2021	3:23 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	11/19/2021	9:38 AM	EPA 350.1
Nitrite	0.012		mg/L as N	0.003	0.012	11/18/2021	11:27 AM	EPA 353.2
Nitrate	0.279		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrate + Nitrite	0.291		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrogen, Organic	0.93		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN - NH3
Phosphorus, Ortho	0.068		mg/L as P	0.005	0.020	11/18/2021	2:02 PM	EPA 365.1
Salinity by meter by Client	0.2		SU			11/17/2021	12:40 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.55		meters			11/17/2021	12:40 PM	FDEP FT 1700
Silica, dissolved as SiO2	9.5		mg/L as SiO2	0.1	0.4	11/18/2021	12:11 PM	SM4500-SiO2 C
Depth of Water Body	1.2		Meters			11/17/2021	12:40 PM	FS2100
Nitrogen, Kjeldahl, Total	0.93		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN + NOX
Total Organic Carbon (NPOC)	18		mg/L	1	4	12/3/2021	11:09 AM	SM 5310 B
Phosphorus, Total	0.11		mg/L as P	0.006	0.024	11/23/2021	8:57 AM	EPA 365.1
Total Suspended Solids	6.40		mg/L	0.6	2.4	11/18/2021	9:19 AM	SM 2540 D
Turbidity (Nephelometric)	4.69		NTU	0.2	0.8	11/18/2021	12:19 PM	EPA 180.1

Laboratory ID	AF06186	Collection date and time	11/17/2021 9:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #388		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.77	I	mg/M3	0.5	2.0	11/30/2021	7:30 AM	SM21 10200 H
Pheophytin	1.19	I	mg/M3	0.5	2.0	11/30/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	11/18/2021	11:26 AM	SM 5210 B
Color	93.7		CU	1.25	5.00	11/18/2021	1:53 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.53		mg/L			11/17/2021	8:40 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		11/17/2021	3:23 PM	Enterolert®
Ammonia	0.020	I	mg/L as N	0.014	0.056	11/19/2021	9:38 AM	EPA 350.1
Nitrite	0.009	I	mg/L as N	0.003	0.012	11/18/2021	11:27 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF06186	Collection date and time	11/17/2021 9:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #388		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate	0.323		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrate + Nitrite	0.332		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrogen, Organic	0.74		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN - NH3
Phosphorus, Ortho	0.091		mg/L as P	0.005	0.020	11/18/2021	2:02 PM	EPA 365.1
Salinity by meter by Client	9.51		SU			11/17/2021	8:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.95		meters			11/17/2021	8:40 AM	FDEP FT 1700
Silica, dissolved as SiO2	7.8		mg/L as SiO2	0.1	0.4	11/18/2021	12:11 PM	SM4500-SiO2 C
Depth of Water Body	2.7		Meters			11/17/2021	8:40 AM	FS2100
Nitrogen, Kjeldahl, Total	0.76		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	12/3/2021	11:09 AM	SM 5310 B
Phosphorus, Total	0.11		mg/L as P	0.006	0.024	11/23/2021	8:57 AM	EPA 365.1
Total Suspended Solids	1.20	I	mg/L	0.6	2.4	11/18/2021	9:19 AM	SM 2540 D
Turbidity (Nephelometric)	1.18		NTU	0.2	0.8	11/18/2021	12:19 PM	EPA 180.1

Laboratory ID	AF06187	Collection date and time	11/17/2021 10:20 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #403		

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	11/30/2021	7:30 AM	SM21 10200 H
Pheophytin	2.87		mg/M3	0.5	2.0	11/30/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	11/18/2021	11:26 AM	SM 5210 B
Color	102		CU	1.25	5.00	11/18/2021	1:53 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.90		mg/L			11/17/2021	10:20 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		11/17/2021	3:23 PM	Enterolert®
Ammonia	0.025	I	mg/L as N	0.014	0.056	11/19/2021	9:38 AM	EPA 350.1
Nitrite	0.010	I	mg/L as N	0.003	0.012	11/18/2021	11:27 AM	EPA 353.2
Nitrate	0.347		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrate + Nitrite	0.357		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrogen, Organic	0.70		mg/L as N	0.10	0.4	11/24/2021	9:41 AM	TKN - NH3
Phosphorus, Ortho	0.099		mg/L as P	0.005	0.020	11/18/2021	2:02 PM	EPA 365.1
Salinity by meter by Client	6.17		SU			11/17/2021	10:20 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			11/17/2021	10:20 AM	FDEP FT 1700
Silica, dissolved as SiO2	8.3		mg/L as SiO2	0.1	0.4	11/18/2021	12:11 PM	SM4500-SiO2 C
Depth of Water Body	1.5		Meters			11/17/2021	10:20 AM	FS2100

Report Format: NELAC

DOH #E45049



Laboratory ID	AF06187	Collection date and time	11/17/2021 10:20 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #403		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrogen, Kjeldahl, Total	0.72		mg/L as N	0.10	0.4	11/24/2021	9:41 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	11/24/2021	9:41 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	12/3/2021	11:09 AM	SM 5310 B
Phosphorus, Total	0.12		mg/L as P	0.006	0.024	11/24/2021	9:43 AM	EPA 365.1
Total Suspended Solids	1.40	I	mg/L	0.6	2.4	11/18/2021	9:19 AM	SM 2540 D
Turbidity (Nephelometric)	0.950		NTU	0.2	0.8	11/18/2021	12:19 PM	EPA 180.1

Laboratory ID	AF06188	Collection date and time	11/17/2021 10:45 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/JAEGER
Sample Description	Grid #413		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.77	I	mg/M3	0.5	2.0	11/30/2021	7:30 AM	SM21 10200 H
Pheophytin	2.39		mg/M3	0.5	2.0	11/30/2021	7:30 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	11/18/2021	11:26 AM	SM 5210 B
Color	108		CU	1.25	5.00	11/18/2021	1:53 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	7.84		mg/L			11/17/2021	10:45 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		11/17/2021	3:23 PM	Enterolert®
Ammonia	0.028	I	mg/L as N	0.014	0.056	11/19/2021	9:38 AM	EPA 350.1
Nitrite	0.012		mg/L as N	0.003	0.012	11/18/2021	11:27 AM	EPA 353.2
Nitrate	0.367		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrate + Nitrite	0.379		mg/L as N	0.01	0.04	11/18/2021	11:27 AM	EPA 353.2
Nitrogen, Organic	0.76		mg/L as N	0.10	0.4	11/24/2021	9:41 AM	TKN - NH3
Phosphorus, Ortho	0.096		mg/L as P	0.005	0.020	11/18/2021	2:02 PM	EPA 365.1
Salinity by meter by Client	5.12		SU			11/17/2021	10:45 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.75		meters			11/17/2021	10:45 AM	FDEP FT 1700
Silica, dissolved as SiO2	8.6		mg/L as SiO2	0.1	0.4	11/18/2021	12:11 PM	SM4500-SiO2 C
Depth of Water Body	1.7		Meters			11/17/2021	10:45 AM	FS2100
Nitrogen, Kjeldahl, Total	0.79		mg/L as N	0.10	0.4	11/24/2021	9:41 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	11/24/2021	9:41 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	12/3/2021	11:09 AM	SM 5310 B
Phosphorus, Total	0.13		mg/L as P	0.006	0.024	11/24/2021	9:43 AM	EPA 365.1
Total Suspended Solids	3.25		mg/L	0.6	2.4	11/18/2021	9:19 AM	SM 2540 D
Turbidity (Nephelometric)	2.39		NTU	0.2	0.8	11/18/2021	12:19 PM	EPA 180.1



Laboratory ID AF06189
 Location Code CRNEP_EQ
 Sample Description EB Site #470

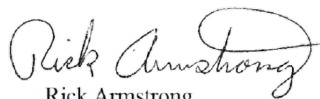
Collection date and time 11/17/2021 1:20 PM
 Sample Collector REISTADT/JAEGER

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	11/27/2021	11:00 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	11/27/2021	11:00 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	11/18/2021	11:26 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	11/18/2021	1:53 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		11/17/2021	3:23 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	11/19/2021	9:38 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	11/18/2021	11:27 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	11/19/2021	9:30 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	11/19/2021	9:30 AM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN - NH3
Phosphorus, Ortho	0.005	U	mg/L as P	0.005	0.020	11/18/2021	2:02 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	11/18/2021	12:11 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	11/23/2021	8:55 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	11/23/2021	8:55 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	12/3/2021	11:09 AM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	11/23/2021	8:57 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	11/18/2021	9:19 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	11/18/2021	12:19 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).
 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

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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		

Analyses Required

Sample Collector(s) (please print): Nicole Reistadt/Monica Jaeger		Sample Collector Signature: 		\$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 11/17/21	Time 1500	Received By: (signature) 	
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: 1.4°C

NP NPF S S NP ST

Collection		Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
Date	Time									
11/17/21	1110	CRNEP_RS #423	SWE	1	1	1	1	2	1	AF06184
11/17/21	1240	CRNEP_RS #470	SWE	1	1	1	1	2	1	AF06185
11/17/21	0940	CRNEP_RS #388	SWE	1	1	1	1	2	1	AF06186
11/17/21	1020	CRNEP_RS #403	SWE	1	1	1	1	2	1	AF06187
11/17/21	1045	CRNEP_RS #413	SWE	1	1	1	1	2	1	AF06188
11/17/21	1320	CRNEP_EQ # C470	SWE	1	1	1	1	2	1	AF06189

**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.