

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: 4/4/2022

Below are the results of samples submitted to this laboratory on 3/23/2022

Laboratory ID	AF18038	Collection date and time	3/23/2022 9:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #428		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	7.89		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Pheophytin	8.58		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.3		mg/L	0.3	1.2	3/24/2022	9:45 AM	SM 5210 B
Color	50.4		CU	1.25	5.00	3/23/2022	2:58 PM	SM21 2120 C
Specific Conductance, By Client	7300		µmhos/cm			3/23/2022	9:35 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	8.28		mg/L			3/23/2022	9:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/23/2022	2:24 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	3/25/2022	8:40 AM	EPA 350.1
Nitrite	0.004	I	mg/L as N	0.003	0.012	3/24/2022	10:24 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrate + Nitrite	0.010	I	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrogen, Organic	1.0		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN - NH3
Phosphorus, Ortho	0.043		mg/L as P	0.005	0.020	3/24/2022	1:38 PM	EPA 365.1
pH, Field (electrometric) by Client	8.16		units			3/23/2022	9:35 AM	FDEP FT1100
Salinity by meter by Client	4.03		SU			3/23/2022	9:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7		meters			3/23/2022	9:35 AM	FDEP FT 1700
Silica, dissolved as SiO2	4.1		mg/L as SiO2	0.1	0.4	3/24/2022	11:40 AM	SM4500-SiO2 C
Depth of Water Body	2.3		Meters			3/23/2022	9:35 AM	FS2100
Field Temperature by client	24.5		°C			3/23/2022	9:35 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.0		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	EPA 351.2
Nitrogen, Total	1.0		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	4/1/2022	2:55 PM	SM 5310 B
Phosphorus, Total	0.10		mg/L as P	0.006	0.024	3/29/2022	8:51 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF18038	Collection date and time	3/23/2022 9:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #428		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	6.75		mg/L	0.6	2.4	3/24/2022	5:48 AM	SM 2540 D
Turbidity (Nephelometric)	5.47		NTU	0.2	0.8	3/24/2022	5:43 AM	EPA 180.1

Laboratory ID	AF18039	Collection date and time	3/23/2022 10:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.72		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Pheophytin	4.78		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	3/24/2022	9:45 AM	SM 5210 B
Color	59.0		CU	1.25	5.00	3/23/2022	2:58 PM	SM21 2120 C
Specific Conductance, By Client	2000		µmhos/cm			3/23/2022	10:40 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.84		mg/L			3/23/2022	10:40 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/23/2022	2:24 PM	Enterolert®
Ammonia	0.022	I	mg/L as N	0.014	0.056	3/25/2022	8:40 AM	EPA 350.1
Nitrite	0.011	I	mg/L as N	0.003	0.012	3/24/2022	10:24 AM	EPA 353.2
Nitrate	0.105		mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrate + Nitrite	0.116		mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrogen, Organic	0.95		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN - NH3
Phosphorus, Ortho	0.059		mg/L as P	0.005	0.020	3/24/2022	1:38 PM	EPA 365.1
pH, Field (electrometric) by Client	8.07		units			3/23/2022	10:40 AM	FDEP FT1100
Salinity by meter by Client	19.52		SU			3/23/2022	10:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			3/23/2022	10:40 AM	FDEP FT 1700
Silica, dissolved as SiO2	6.2		mg/L as SiO2	0.1	0.4	3/24/2022	11:40 AM	SM4500-SiO2 C
Depth of Water Body	2.3		Meters			3/23/2022	10:40 AM	FS2100
Field Temperature by client	25.0		°C			3/23/2022	10:40 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.97		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/1/2022	2:55 PM	SM 5310 B
Phosphorus, Total	0.11		mg/L as P	0.006	0.024	3/29/2022	8:51 AM	EPA 365.1
Total Suspended Solids	3.45		mg/L	0.6	2.4	3/24/2022	5:48 AM	SM 2540 D
Turbidity (Nephelometric)	4.59		NTU	0.2	0.8	3/24/2022	5:43 AM	EPA 180.1



Laboratory ID	AF18040	Collection date and time	3/23/2022 11:40 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #469		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	8.24		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Pheophytin	6.11		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.3		mg/L	0.3	1.2	3/24/2022	9:45 AM	SM 5210 B
Color	55.0		CU	1.25	5.00	3/23/2022	2:58 PM	SM21 2120 C
Specific Conductance, By Client	400		µmhos/cm			3/23/2022	11:40 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.88		mg/L			3/23/2022	11:40 AM	FDEP FT1500
Enterococci	10		MPN/100mL	10		3/23/2022	2:24 PM	Enterolert®
Ammonia	0.030	I	mg/L as N	0.014	0.056	3/25/2022	8:40 AM	EPA 350.1
Nitrite	0.033		mg/L as N	0.003	0.012	3/24/2022	10:24 AM	EPA 353.2
Nitrate	0.087		mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrate + Nitrite	0.120		mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN - NH3
Phosphorus, Ortho	0.038		mg/L as P	0.005	0.020	3/24/2022	1:38 PM	EPA 365.1
pH, Field (electrometric) by Client	7.69		units			3/23/2022	11:40 AM	FDEP FT1100
Salinity by meter by Client	0.20		SU			3/23/2022	11:40 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.95		meters			3/23/2022	11:40 AM	FDEP FT 1700
Silica, dissolved as SiO2	6.3		mg/L as SiO2	0.1	0.4	3/24/2022	11:40 AM	SM4500-SiO2 C
Depth of Water Body	2.0		Meters			3/23/2022	11:40 AM	FS2100
Field Temperature by client	25.2		°C			3/23/2022	11:40 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN + NOX
Total Organic Carbon (NPOC)	15		mg/L	1	4	4/1/2022	2:55 PM	SM 5310 B
Phosphorus, Total	0.093		mg/L as P	0.006	0.024	3/29/2022	8:51 AM	EPA 365.1
Total Suspended Solids	5.95		mg/L	0.6	2.4	3/24/2022	5:48 AM	SM 2540 D
Turbidity (Nephelometric)	6.61		NTU	0.2	0.8	3/24/2022	5:43 AM	EPA 180.1

Laboratory ID	AF18041	Collection date and time	3/23/2022 9:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #418		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.45	I	mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Pheophytin	3.47		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	3/24/2022	9:45 AM	SM 5210 B
Color	42.7		CU	1.25	5.00	3/23/2022	2:58 PM	SM21 2120 C
Specific Conductance, By Client	13600		µmhos/cm			3/23/2022	9:05 AM	FDEP FT1200

Report Format: NELAC

DOH #E45049



Laboratory ID	AF18041	Collection date and time	3/23/2022 9:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #418		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Oxygen, Dissolved, Electrode, by Client	7.79		mg/L			3/23/2022	9:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/23/2022	2:24 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	3/25/2022	8:40 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	3/24/2022	10:24 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrogen, Organic	0.94		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN - NH3
Phosphorus, Ortho	0.039		mg/L as P	0.005	0.020	3/24/2022	1:38 PM	EPA 365.1
pH, Field (electrometric) by Client	8.00		units			3/23/2022	9:05 AM	FDEP FT1100
Salinity by meter by Client	7.86		SU			3/23/2022	9:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.25		meters			3/23/2022	9:05 AM	FDEP FT 1700
Silica, dissolved as SiO2	3.2		mg/L as SiO2	0.1	0.4	3/24/2022	11:40 AM	SM4500-SiO2 C
Depth of Water Body	2.1		Meters			3/23/2022	9:05 AM	FS2100
Field Temperature by client	24.3		°C			3/23/2022	9:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.94		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	EPA 351.2
Nitrogen, Total	0.94		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	4/1/2022	2:55 PM	SM 5310 B
Phosphorus, Total	0.076		mg/L as P	0.006	0.024	3/29/2022	8:51 AM	EPA 365.1
Total Suspended Solids	1.60	I	mg/L	0.6	2.4	3/24/2022	5:48 AM	SM 2540 D
Turbidity (Nephelometric)	2.01		NTU	0.2	0.8	3/24/2022	5:43 AM	EPA 180.1

Laboratory ID	AF18042	Collection date and time	3/23/2022 10:00 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	5.95		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Pheophytin	3.32		mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	3/24/2022	9:45 AM	SM 5210 B
Color	46.1		CU	1.25	5.00	3/23/2022	2:58 PM	SM21 2120 C
Specific Conductance, By Client	10900		µmhos/cm			3/23/2022	10:00 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.98		mg/L			3/23/2022	10:00 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		3/23/2022	2:24 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	3/25/2022	8:40 AM	EPA 350.1
Nitrite	0.004	I	mg/L as N	0.003	0.012	3/24/2022	10:24 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF18042	Collection date and time	3/23/2022 10:00 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 + Nitrite	0.010	U	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrogen, Organic	0.93		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN - NH3
Phosphorus, Ortho	0.043		mg/L as P	0.005	0.020	3/24/2022	1:38 PM	EPA 365.1
pH, Field (electrometric) by Client	8.02		units			3/23/2022	10:00 AM	FDEP FT1100
Salinity by meter by Client	6.17		SU			3/23/2022	10:00 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.05		meters			3/23/2022	10:00 AM	FDEP FT 1700
Silica, dissolved as SiO2	3.5		mg/L as SiO2	0.1	0.4	3/24/2022	11:40 AM	SM4500-SiO2 C
Depth of Water Body	2.7		Meters			3/23/2022	10:00 AM	FS2100
Field Temperature by client	24.5		°C			3/23/2022	10:00 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.93		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	EPA 351.2
Nitrogen, Total	0.93		mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	4/1/2022	2:55 PM	SM 5310 B
Phosphorus, Total	0.084		mg/L as P	0.006	0.024	3/29/2022	8:51 AM	EPA 365.1
Total Suspended Solids	3.20		mg/L	0.6	2.4	3/24/2022	5:48 AM	SM 2540 D
Turbidity (Nephelometric)	2.82		NTU	0.2	0.8	3/24/2022	5:43 AM	EPA 180.1

Laboratory ID	AF18044	Collection date and time	3/23/2022 1:20 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
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	3/28/2022	7:33 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	3/28/2022	7:33 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	3/24/2022	9:45 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	3/23/2022	2:58 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		3/23/2022	2:24 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	3/25/2022	8:40 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	3/24/2022	10:24 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	3/24/2022	10:24 AM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN - NH3
Phosphorus, Ortho	0.005	U	mg/L as P	0.005	0.020	3/24/2022	1:38 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	3/24/2022	11:40 AM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	3/29/2022	8:49 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	3/29/2022	8:49 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	4/1/2022	2:55 PM	SM 5310 B

Report Format: NELAC

DOH #E45049



Laboratory ID	AF18044	Collection date and time	3/23/2022 1:20 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	3/29/2022	8:51 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	3/24/2022	5:48 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	3/24/2022	5:43 AM	EPA 180.1

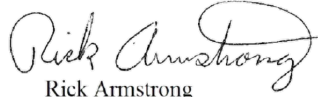
Qualifiers:

I The value is less than, or equal to, the laboratory's practical quantitation limit (PQL) and greater than the minimum detection limit (MDL).

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

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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

Page 1 of 1

Name: FDEP - South ATTN: Kirby Wolfe Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901 Phone: (239) 344-5719	Name: DNRM RE: CCHMN-Tidal Caloosa Address: 1500 Monroe St Ft Myers, FL 33901 Phone: (239) 533-8109	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
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Sample Collector(s) (please print):
Nicole Reistad/Monica Jaeger

Sample Collector Signature:

Analyses Required

Relinquished By: (signature)	Date	Time	Received By: (signature)	\$Chloro, _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)							

Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 3.7°C

NP NPF S S NP ST

Preservatives (see codes)

Collection		Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
Date	Time									
03/23/22	0935	CRNEP_RS #428	SWE	1	1	1	1	2	1	AF18038
03/23/22	1040	CRNEP_RS #449	SWE	1	1	1	1	2	1	AF18039
03/23/22	1140	CRNEP_RS #469	SWE	1	1	1	1	2	1	AF18040
03/23/22	0905	CRNEP_RS #418	SWE	1	1	1	1	2	1	AF18041
03/23/22	1000	CRNEP_RS #429	SWE	1	1	1	1	2	1	AF18042
		CRNEP_RSBOT #429 Bottom NOT SAMPLED	SWE	1	1	1	1	2	1	AF18043
03/23/22	1320	CRNEP_EQ #	SWE	1	1	1	1	2	1	AF18044

**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.