

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: 7/27/2022

Below are the results of samples submitted to this laboratory on 7/20/2022

Laboratory ID	AF29819	Collection date and time	7/20/2022 11:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #417		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.17		mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Pheophytin	6.56		mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.2	I	mg/L	0.3	1.2	7/21/2022	10:14 AM	SM 5210 B
Color	48.8		CU	1.25	5.00	7/20/2022	2:22 PM	SM21 2120 C
Specific Conductance, By Client	5269		µmhos/cm			7/20/2022	11:05 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.93		mg/L			7/20/2022	11:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/20/2022	1:50 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	7/22/2022	10:36 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	7/21/2022	11:43 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrogen, Organic	0.62		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.078		mg/L as P	0.005	0.020	7/20/2022	3:53 PM	EPA 365.1
pH, Field (electrometric) by Client	8.00		units			7/20/2022	11:05 AM	FDEP FT1100
Salinity by meter by Client	2.79		SU			7/20/2022	11:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.5		meters			7/20/2022	11:05 AM	FDEP FT 1700
Silica, dissolved as SiO2	5.4		mg/L as SiO2	0.1	0.4	7/20/2022	2:34 PM	SM4500-SiO2 C
Depth of Water Body	1.5		Meters			7/20/2022	11:05 AM	FS2100
Field Temperature by client	31.2		°C			7/20/2022	11:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.62		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	EPA 351.2
Nitrogen, Total	0.62		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN + NOX
Total Organic Carbon (NPOC)	11		mg/L	1	4	7/23/2022	7:51 AM	SM 5310 B
Phosphorus, Total	0.12		mg/L as P	0.006	0.024	7/25/2022	9:00 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF29819	Collection date and time	7/20/2022 11:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #417		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	1.70	I	mg/L	0.6	2.4	7/21/2022	7:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.94		NTU	0.2	0.8	7/21/2022	6:36 AM	EPA 180.1

Laboratory ID	AF29820	Collection date and time	7/20/2022 10:20 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	1.90	I	mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Pheophytin	3.74		mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	I	mg/L	0.3	1.2	7/21/2022	10:14 AM	SM 5210 B
Color	46.5		CU	1.25	5.00	7/20/2022	2:22 PM	SM21 2120 C
Specific Conductance, By Client	20710		µmhos/cm			7/20/2022	10:20 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.81		mg/L			7/20/2022	10:20 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/20/2022	1:50 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	7/22/2022	10:36 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	7/21/2022	11:43 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrogen, Organic	0.82		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.051		mg/L as P	0.005	0.020	7/20/2022	3:53 PM	EPA 365.1
pH, Field (electrometric) by Client	8.01		units			7/20/2022	10:20 AM	FDEP FT1100
Salinity by meter by Client	12.33		SU			7/20/2022	10:20 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.1		meters			7/20/2022	10:20 AM	FDEP FT 1700
Silica, dissolved as SiO2	3.3		mg/L as SiO2	0.1	0.4	7/20/2022	2:34 PM	SM4500-SiO2 C
Depth of Water Body	2.1		Meters			7/20/2022	10:20 AM	FS2100
Field Temperature by client	31.1		°C			7/20/2022	10:20 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.82		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	EPA 351.2
Nitrogen, Total	0.82		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN + NOX
Total Organic Carbon (NPOC)	8.8		mg/L	1	4	7/23/2022	7:51 AM	SM 5310 B
Phosphorus, Total	0.081		mg/L as P	0.006	0.024	7/25/2022	9:00 AM	EPA 365.1
Total Suspended Solids	2.65		mg/L	0.6	2.4	7/21/2022	7:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.17		NTU	0.2	0.8	7/21/2022	6:36 AM	EPA 180.1



Laboratory ID	AF29821	Collection date and time	7/20/2022 12:05 PM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #434		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	4.76		mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Pheophytin	5.82		mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	7/21/2022	10:14 AM	SM 5210 B
Color	62.4		CU	1.25	5.00	7/20/2022	2:22 PM	SM21 2120 C
Specific Conductance, By Client	1374		µmhos/cm			7/20/2022	12:05 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.04		mg/L			7/20/2022	12:05 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/20/2022	1:50 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	7/22/2022	10:36 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	7/21/2022	11:43 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrogen, Organic	0.82		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.092		mg/L as P	0.005	0.020	7/20/2022	3:53 PM	EPA 365.1
pH, Field (electrometric) by Client	8.15		units			7/20/2022	12:05 PM	FDEP FT1100
Salinity by meter by Client	0.68		SU			7/20/2022	12:05 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.2		meters			7/20/2022	12:05 PM	FDEP FT 1700
Silica, dissolved as SiO2	6.1		mg/L as SiO2	0.1	0.4	7/20/2022	2:34 PM	SM4500-SiO2 C
Depth of Water Body	1.2		Meters			7/20/2022	12:05 PM	FS2100
Field Temperature by client	31.9		°C			7/20/2022	12:05 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.82		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	EPA 351.2
Nitrogen, Total	0.82		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN + NOX
Total Organic Carbon (NPOC)	14		mg/L	1	4	7/23/2022	7:51 AM	SM 5310 B
Phosphorus, Total	0.14		mg/L as P	0.006	0.024	7/25/2022	9:00 AM	EPA 365.1
Total Suspended Solids	1.25	I	mg/L	0.6	2.4	7/21/2022	7:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.43		NTU	0.2	0.8	7/21/2022	6:36 AM	EPA 180.1

Laboratory ID	AF29822	Collection date and time	7/20/2022 11:30 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	0.50	U	mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Pheophytin	10.49		mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	7/21/2022	10:14 AM	SM 5210 B
Color	61.1		CU	1.25	5.00	7/20/2022	2:22 PM	SM21 2120 C
Specific Conductance, By Client	3538		µmhos/cm			7/20/2022	11:30 AM	FDEP FT1200

Report Format: NELAC

DOH #E45049



Laboratory ID	AF29822	Collection date and time	7/20/2022 11:30 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
Oxygen, Dissolved, Electrode, by Client	7.13		mg/L			7/20/2022	11:30 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/20/2022	1:50 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	7/22/2022	10:36 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	7/21/2022	11:43 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrogen, Organic	0.76		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.084		mg/L as P	0.005	0.020	7/20/2022	3:53 PM	EPA 365.1
pH, Field (electrometric) by Client	8.08		units			7/20/2022	11:30 AM	FDEP FT1100
Salinity by meter by Client	1.84		SU			7/20/2022	11:30 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.4		meters			7/20/2022	11:30 AM	FDEP FT 1700
Silica, dissolved as SiO2	6.4		mg/L as SiO2	0.1	0.4	7/20/2022	2:34 PM	SM4500-SiO2 C
Depth of Water Body	2.3		Meters			7/20/2022	11:30 AM	FS2100
Field Temperature by client	31.4		°C			7/20/2022	11:30 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.76		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	EPA 351.2
Nitrogen, Total	0.76		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	7/23/2022	7:51 AM	SM 5310 B
Phosphorus, Total	0.12		mg/L as P	0.006	0.024	7/25/2022	9:00 AM	EPA 365.1
Total Suspended Solids	1.95	I	mg/L	0.6	2.4	7/21/2022	7:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.90		NTU	0.2	0.8	7/21/2022	6:36 AM	EPA 180.1

Laboratory ID	AF29823	Collection date and time	7/20/2022 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	0.50	U	mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Pheophytin	2.14		mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.9	I	mg/L	0.3	1.2	7/21/2022	10:14 AM	SM 5210 B
Color	16.6		CU	1.25	5.00	7/20/2022	2:22 PM	SM21 2120 C
Specific Conductance, By Client	44152		µmhos/cm			7/20/2022	9:25 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	5.85		mg/L			7/20/2022	9:25 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		7/20/2022	1:50 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	7/22/2022	10:36 AM	EPA 350.1
Nitrite	0.003	I	mg/L as N	0.003	0.012	7/21/2022	11:43 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF29823	Collection date and time	7/20/2022 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
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrogen, Organic	0.53		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.020	I	mg/L as P	0.005	0.020	7/20/2022	3:53 PM	EPA 365.1
pH, Field (electrometric) by Client	8.00		units			7/20/2022	9:25 AM	FDEP FT1100
Salinity by meter by Client	27.67		SU			7/20/2022	9:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.8		meters			7/20/2022	9:25 AM	FDEP FT 1700
Silica, dissolved as SiO2	1.8		mg/L as SiO2	0.1	0.4	7/20/2022	2:34 PM	SM4500-SiO2 C
Depth of Water Body	1.8		Meters			7/20/2022	9:25 AM	FS2100
Field Temperature by client	31.3		°C			7/20/2022	9:25 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.53		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	EPA 351.2
Nitrogen, Total	0.53		mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN + NOX
Total Organic Carbon (NPOC)	4.9		mg/L	1	4	7/23/2022	7:51 AM	SM 5310 B
Phosphorus, Total	0.041		mg/L as P	0.006	0.024	7/25/2022	9:00 AM	EPA 365.1
Total Suspended Solids	2.15	I	mg/L	0.6	2.4	7/21/2022	7:47 AM	SM 2540 D
Turbidity (Nephelometric)	1.00		NTU	0.2	0.8	7/21/2022	6:36 AM	EPA 180.1

Laboratory ID	AF29824	Collection date and time	7/20/2022 12:45 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	7/21/2022	7:40 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	7/21/2022	7:40 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	7/21/2022	10:14 AM	SM 5210 B
Color	1.25	U	CU	1.25	5.00	7/20/2022	2:22 PM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		7/20/2022	1:50 PM	Enterolert®
Ammonia	0.014	U	mg/L as N	0.014	0.056	7/22/2022	10:36 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	7/21/2022	11:43 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	7/21/2022	11:43 AM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN - NH3
Phosphorus, Ortho	0.005	U	mg/L as P	0.005	0.020	7/20/2022	3:53 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	7/20/2022	2:34 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	7/25/2022	8:58 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	7/25/2022	8:58 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	7/23/2022	7:51 AM	SM 5310 B

Report Format: NELAC

DOH #E45049



Laboratory ID	AF29824	Collection date and time	7/20/2022 12:45 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #		

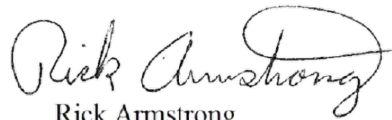
Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	7/25/2022	9:00 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	7/21/2022	7:47 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	7/21/2022	6:36 AM	EPA 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

&

Chain of Custody Record

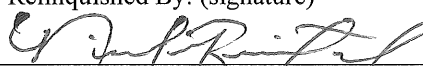
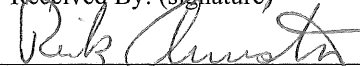
Lab Certification: E45049
LCEL F COC 20150828R1

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 Sample Collector(s) (please print): Nicole Reistad/Monica Jaeger		Name: DNRM RE: CCHMN-Tidal Caloosa Address: 1500 Monroe St Ft Myers, FL 33901 Phone: (239) 533-8109 Sample Collector Signature: 		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						
Relinquished By: (signature) 		Date 07/20/22	Time 13:42	Received By: (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)								
Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 0.5						NP	NPF	S	S	NP	ST	
Collection		Sample Description & Location		Matrix (see codes)		# of Sample Containers Submitted						Lab ID #
Date	Time											
07/20/22	1105	CRNEP_RS #417		SWE		1	1	1	1	2	1	AF29819
07/20/22	1020	CRNEP_RS #395		SWE		1	1	1	1	2	1	AF29820
07/20/22	1205	CRNEP_RS #434		SWE		1	1	1	1	2	1	AF29821
07/20/22	1130	CRNEP_RS #428		SWE		1	1	1	1	2	1	AF29822
07/20/22	0925	CRNEP_RS #326		SWE		1	1	1	1	2	1	AF29823
07/20/22	1245	CRNEP_EQ #		SWE		1	1	1	1	2	1	AF29824

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.