

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: 6/17/2024

Below are the results of samples submitted to this laboratory on 6/5/2024

Laboratory ID	AF92230	Collection date and time	6/5/2024 10:45 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #389		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.72	I	mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Pheophytin	1.23	I	mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	86.1		%	0.1		6/5/2024	10:45 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	6/6/2024	8:00 AM	SM5210B-2016
Color	28.7		CU	1.25	5.00	6/6/2024	5:54 AM	SM21 2120 C
Specific Conductance, By Client	25700		µmhos/cm			6/5/2024	10:45 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	5.98		mg/L			6/5/2024	10:45 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/5/2024	2:00 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/7/2024	9:07 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	6/6/2024	1:18 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrogen, Organic	1.1		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN - NH3
Phosphorus, Ortho as P	0.056		mg/L as P	0.005	0.020	6/6/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	7.88		units			6/5/2024	10:45 AM	FDEP FT1100
Salinity by meter by Client	15.60		SU			6/5/2024	10:45 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.0	S	meters			6/5/2024	10:45 AM	FDEP FT 1700
Depth of Water Body	1.0		Meters			6/5/2024	10:45 AM	FS2100
Field Temperature by client	29.8		°C			6/5/2024	10:45 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	1.1		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	EPA 351.2
Nitrogen, Total	1.1		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	6/6/2024	3:55 PM	SM5310B-2014
Phosphorus, Total as P	0.088		mg/L as P	0.006	0.024	6/11/2024	8:58 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AF92230	Collection date and time	6/5/2024	10:45 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #389			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	2.75		mg/L	0.6	2.4	6/6/2024	8:42 AM	SM2540D-2015
Turbidity (Nephelometric)	1.66		NTU	0.2	0.8	6/6/2024	1:35 PM	EPA 180.1

Laboratory ID	AF92231	Collection date and time	6/5/2024	11:55 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	5.40		mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Pheophytin	2.51		mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	93.1		%	0.1		6/5/2024	11:55 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	6/6/2024	8:00 AM	SM5210B-2016
Color	38.6		CU	1.25	5.00	6/6/2024	5:54 AM	SM21 2120 C
Specific Conductance, By Client	8200		µmhos/cm			6/5/2024	11:55 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.86		mg/L			6/5/2024	11:55 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/5/2024	2:00 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/7/2024	9:07 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	6/6/2024	1:18 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrogen, Organic	0.94		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN - NH3
Phosphorus, Ortho as P	0.653		mg/L as P	0.005	0.020	6/6/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	8.18		units			6/5/2024	11:55 AM	FDEP FT1100
Salinity by meter by Client	4.49		SU			6/5/2024	11:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.4		meters			6/5/2024	11:55 AM	FDEP FT 1700
Depth of Water Body	2.5		Meters			6/5/2024	11:55 AM	FS2100
Field Temperature by client	30.1		°C			6/5/2024	11:55 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.94		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	EPA 351.2
Nitrogen, Total	0.94		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN + NOX
Total Organic Carbon (NPOC)	16		mg/L	1	4	6/6/2024	3:55 PM	SM5310B-2014
Phosphorus, Total as P	0.70		mg/L as P	0.006	0.024	6/11/2024	8:58 AM	EPA 365.1
Total Suspended Solids	3.45		mg/L	0.6	2.4	6/6/2024	8:42 AM	SM2540D-2015
Turbidity (Nephelometric)	3.37		NTU	0.2	0.8	6/6/2024	1:35 PM	EPA 180.1



Laboratory ID	AF92232	Collection date and time	6/5/2024	11:25 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #403			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.46		mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Pheophytin	1.43	I	mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	96.1		%	0.1		6/5/2024	11:25 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.8	I	mg/L	0.3	1.2	6/6/2024	8:00 AM	SM5210B-2016
Color	30.6		CU	1.25	5.00	6/6/2024	5:54 AM	SM21 2120 C
Specific Conductance, By Client	21700		µmhos/cm			6/5/2024	11:25 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	6.78		mg/L			6/5/2024	11:25 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/5/2024	2:00 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/17/2024	8:17 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	6/6/2024	1:18 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrogen, Organic	0.86		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN - NH3
Phosphorus, Ortho as P	0.060		mg/L as P	0.005	0.020	6/6/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	8.09		units			6/5/2024	11:25 AM	FDEP FT1100
Salinity by meter by Client	12.93		SU			6/5/2024	11:25 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.1		meters			6/5/2024	11:25 AM	FDEP FT 1700
Depth of Water Body	3.6		Meters			6/5/2024	11:25 AM	FS2100
Field Temperature by client	29.9		°C			6/5/2024	11:25 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.86		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	EPA 351.2
Nitrogen, Total	0.86		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	6/6/2024	3:55 PM	SM5310B-2014
Phosphorus, Total as P	0.061		mg/L as P	0.006	0.024	6/11/2024	8:58 AM	EPA 365.1
Total Suspended Solids	2.65		mg/L	0.6	2.4	6/6/2024	8:42 AM	SM2540D-2015
Turbidity (Nephelometric)	1.87		NTU	0.2	0.8	6/6/2024	1:35 PM	EPA 180.1

Laboratory ID	AF92233	Collection date and time	6/5/2024	12:20 PM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #436			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	6.58		mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Pheophytin	2.77		mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	110.4		%	0.1		6/5/2024	12:20 PM	FDEP FT1500
Biochemical Oxygen Demand 5 day	1.2		mg/L	0.3	1.2	6/6/2024	8:00 AM	SM5210B-2016
Color	41.1		CU	1.25	5.00	6/6/2024	5:54 AM	SM21 2120 C

Report Format: NELAC

DOH #E45049



Laboratory ID	AF92233	Collection date and time	6/5/2024	12:20 PM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #436			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Specific Conductance, By Client	6400		µmhos/cm			6/5/2024	12:20 PM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	8.25		mg/L			6/5/2024	12:20 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/5/2024	2:00 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/7/2024	9:07 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	6/6/2024	1:18 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrogen, Organic	0.97		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN - NH3
Phosphorus, Ortho as P	0.064		mg/L as P	0.005	0.020	6/6/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	8.31		units			6/5/2024	12:20 PM	FDEP FT1100
Salinity by meter by Client	3.47		SU			6/5/2024	12:20 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	1.4		meters			6/5/2024	12:20 PM	FDEP FT 1700
Depth of Water Body	2.8		Meters			6/5/2024	12:20 PM	FS2100
Field Temperature by client	27.5		°C			6/5/2024	12:20 PM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.97		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	EPA 351.2
Nitrogen, Total	0.97		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN + NOX
Total Organic Carbon (NPOC)	17		mg/L	1	4	6/6/2024	3:55 PM	SM5310B-2014
Phosphorus, Total as P	0.10		mg/L as P	0.006	0.024	6/11/2024	8:58 AM	EPA 365.1
Total Suspended Solids	2.55		mg/L	0.6	2.4	6/6/2024	8:42 AM	SM2540D-2015
Turbidity (Nephelometric)	2.68		NTU	0.2	0.8	6/6/2024	1:35 PM	EPA 180.1

Laboratory ID	AF92234	Collection date and time	6/5/2024	11:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER	
Sample Description	Grid #394			

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	2.11		mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Pheophytin	0.50	U	mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Dissolved Oxygen % Saturation by Client	99.8		%	0.1		6/5/2024	11:05 AM	FDEP FT1500
Biochemical Oxygen Demand 5 day	0.7	I	mg/L	0.3	1.2	6/6/2024	8:00 AM	SM5210B-2016
Color	28.9		CU	1.25	5.00	6/6/2024	5:54 AM	SM21 2120 C
Specific Conductance, By Client	20500		µmhos/cm			6/5/2024	11:05 AM	FDEP FT1200
Oxygen, Dissolved, Electrode, by Client	7.16		mg/L			6/5/2024	11:05 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		6/5/2024	2:00 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/7/2024	9:07 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	6/6/2024	1:18 PM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID	AF92234	Collection date and time	6/5/2024 11:05 AM
Location Code	CRNEP_RS	Sample Collector	REISTAD/JAEGER
Sample Description	Grid #394		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrogen, Organic	0.80		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN - NH3
Phosphorus, Ortho as P	0.058		mg/L as P	0.005	0.020	6/6/2024	12:43 PM	EPA 365.1
pH, Field (electrometric) by Client	8.27		units			6/5/2024	11:05 AM	FDEP FT1100
Salinity by meter by Client	12.19		SU			6/5/2024	11:05 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	2.2	S	meters			6/5/2024	11:05 AM	FDEP FT 1700
Depth of Water Body	2.2		Meters			6/5/2024	11:05 AM	FS2100
Field Temperature by client	29.2		°C			6/5/2024	11:05 AM	FDEP FT1400
Nitrogen, Kjeldahl, Total	0.80		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	EPA 351.2
Nitrogen, Total	0.80		mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN + NOX
Total Organic Carbon (NPOC)	13		mg/L	1	4	6/6/2024	3:55 PM	SM5310B-2014
Phosphorus, Total as P	0.086		mg/L as P	0.006	0.024	6/11/2024	8:58 AM	EPA 365.1
Total Suspended Solids	2.35	I	mg/L	0.6	2.4	6/6/2024	8:42 AM	SM2540D-2015
Turbidity (Nephelometric)	1.18		NTU	0.2	0.8	6/6/2024	1:35 PM	EPA 180.1

Laboratory ID	AF92235	Collection date and time	6/5/2024 1:00 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #436		

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	6/11/2024	9:50 AM	SM10200H-2011
Pheophytin	0.50	U	mg/M3	0.5	2	6/11/2024	9:50 AM	SM10200H-2011
Biochemical Oxygen Demand 5 day	0.3	U	mg/L	0.3	1.2	6/6/2024	8:00 AM	SM5210B-2016
Color	1.25	U	CU	1.25	5.00	6/6/2024	5:54 AM	SM21 2120 C
Enterococci	1	U	MPN/100mL	1		6/5/2024	2:00 PM	Enterolert®
Ammonia as N	0.014	U	mg/L as N	0.014	0.056	6/7/2024	9:07 AM	EPA 350.1
Nitrite as N	0.003	U	mg/L as N	0.003	0.012	6/6/2024	1:18 PM	EPA 353.2
Nitrate as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrate + Nitrite as N	0.010	U	mg/L as N	0.01	0.04	6/6/2024	1:18 PM	EPA 353.2
Nitrogen, Organic	0.100	U	mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN - NH3
Phosphorus, Ortho as P	0.005	U	mg/L as P	0.005	0.020	6/6/2024	12:43 PM	EPA 365.1
Nitrogen, Kjeldahl, Total	0.10	U	mg/L as N	0.10	0.4	6/11/2024	8:53 AM	EPA 351.2
Nitrogen, Total	0.100	U	mg/L as N	0.10	0.4	6/11/2024	8:53 AM	TKN + NOX
Total Organic Carbon (NPOC)	1.000	U	mg/L	1	4	6/6/2024	3:55 PM	SM5310B-2014
Phosphorus, Total as P	0.006	U	mg/L as P	0.006	0.024	6/11/2024	8:58 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



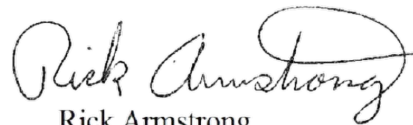
Laboratory ID	AF92235	Collection date and time	6/5/2024 1:00 PM
Location Code	CRNEP_EQ	Sample Collector	REISTAD/JAEGER
Sample Description	EB Site #436		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	6/6/2024	8:42 AM	SM2540D-2015
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	6/6/2024	1:35 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.

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

LCEL does not accept any samples used for evidentiary purposes

Lab Certification: E45049

LCEL F COC 20150828R1

Page 1 of 1

Report/Result Information

Billing/Invoice Information

Name: Tidal Caloosa	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
Distrib List: FDEP - South	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

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, Bod, Bodi Enteroto	Preservatives (see codes)			
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: 0.9°C

NP NPF S S NP ST

Collection		Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
Date	Time									
06/05/24	1045	CRNEP_RS #389	SWE	1	1	1	1	2	1	AF92230
06/05/24	1155	CRNEP_RS #429	SWE	1	1	1	1	2	1	AF92231
06/05/24	1125	CRNEP_RS #403	SWE	1	1	1	1	2	1	AF92232
06/05/24	1220	CRNEP_RS #436	SWE	1	1	1	1	2	1	AF92233
06/05/24	1105	CRNEP_RS #394	SWE	1	1	1	1	2	1	AF92234
06/05/24	1300	CRNEP_EQ # @436	SWE	1	1	1	1	2	1	AF92235

**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.