

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-533-8600



To: ATTN: Kirby Wolfe
FDEP - South
2295 Victoria Ave Ste 364
Fort Myers FL 33901
(239) 344-5719

Report Date: 12/26/2019

Below are the results of samples submitted to this laboratory on 12/5/2019

Laboratory ID	AE31420	Collection date and time	12/5/2019 9:45 AM
Location Code	IMPRGR01	Sample Collector	ZANE XANDERS
Sample Description	Imperial R. house w/ 3 arches		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.97	I	mg/M3	0.5	2.0	12/13/2019	7:50 AM	SM21 10200 H
Pheophytin	8.13		mg/M3	0.5	2.0	12/13/2019	7:50 AM	SM21 10200 H
Aluminum	67.7		µg/L	5.0	20.0	12/11/2019	12:35 PM	EPA 200.8
Arsenic	7.63		µg/L	0.5	2	12/11/2019	12:35 PM	EPA 200.8
Barium	16.0		µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Beryllium	0.25	U	µg/L	0.25	1.00	12/11/2019	12:35 PM	EPA 200.8
Biochemical Oxygen Demand 5 day	1.3		mg/L	0.3	1.2	12/6/2019	11:14 AM	SM 5210 B
Calcium by ICP	261		mg/L	2.50	10.00	12/11/2019	8:59 AM	EPA 200.7
Cadmium	0.3	U	µg/L	0.3	1.2	12/11/2019	12:35 PM	EPA 200.8
Chloride	10700		mg/L	16.00	64.0	12/11/2019	9:20 AM	SM 4500-Cl ⁻ D
Color	36.6		CU	1.6	6.4	12/6/2019	10:25 AM	SM21 2120 C
Chromium	1.24	I	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Copper	0.883	I	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Oxygen, Dissolved, Electrode, by Client	5.45		mg/L	0.1		12/5/2019	9:45 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		12/5/2019	2:37 PM	Enterolert®
Iron by ICP	0.060	I	mg/L	0.050	0.200	12/11/2019	8:59 AM	EPA 200.7
Magnesium by ICP	630		mg/L	2.50	10.00	12/11/2019	8:59 AM	EPA 200.7
E.coli Enumeration	53		MPN/100mL	10		12/5/2019	2:59 PM	Colilert-18®
Manganese	11.4		µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Molybdenum	8.79		µg/L	0.50	2.0	12/11/2019	12:35 PM	EPA 200.8
Ammonia	0.014	U	mg/L as N	0.014	0.056	12/6/2019	9:04 AM	EPA 350.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AE31420	Collection date and time	12/5/2019 9:45 AM
Location Code	IMPRGR01	Sample Collector	ZANE XANDERS
Sample Description	Imperial R. house w/ 3 arches		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nickel	0.75	U	µg/L	0.75	3.00	12/11/2019	12:35 PM	EPA 200.8
Nitrite	0.007	I	mg/L as N	0.003	0.012	12/5/2019	2:30 PM	EPA 353.2
Nitrate	0.042		mg/L as N	0.01	0.04	12/5/2019	2:30 PM	EPA 353.2
Nitrate + Nitrite	0.049		mg/L as N	0.01	0.04	12/5/2019	2:30 PM	EPA 353.2
Nitrogen, Organic	0.69		mg/L as N	0.05	0.2	12/11/2019	9:19 AM	TKN - NH3
Phosphorus, Ortho	0.004	U	mg/L as P	0.004	0.016	12/6/2019	8:17 AM	EPA 365.1
Lead	0.5	U	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Salinity by meter by Client	25.09		SU	0.1		12/5/2019	9:45 AM	FDEP FT 1300
Antimony	1.0	U	µg/L	1.0	4.0	12/11/2019	12:35 PM	EPA 200.8
Water Clarity Secchi Disk, by Client	1.3		meters	0.1		12/5/2019	9:45 AM	FDEP FT 1700
Selenium	69.3		µg/L	0.5	2	12/11/2019	12:35 PM	EPA 200.8
Silica, dissolved as SiO2	3.6		mg/L as SiO2	0.1	0.4	12/6/2019	8:17 AM	SM4500-SiO2 C
Total Hardness	3250		mg/L as CaCO3	2.50	10.0	12/11/2019	8:59 AM	SM 2340 B
Nitrogen, Kjeldahl, Total	0.69		mg/L as N	0.05	0.2	12/11/2019	9:19 AM	EPA 351.2
Thallium	0.3	U	µg/L	0.3	1.2	12/11/2019	12:35 PM	EPA 200.8
Nitrogen, Total	0.74		mg/L as N	0.05	0.2	12/11/2019	9:19 AM	TKN + NOX
Total Organic Carbon	9.2		mg/L	1	4	12/10/2019	12:20 PM	SM 5310 B
Phosphorus, Total	0.029		mg/L as P	0.006	0.024	12/11/2019	9:22 AM	EPA 365.1
Total Suspended Solids	1.80	I	mg/L	0.6	2.4	12/6/2019	9:18 AM	SM 2540 D
Turbidity (Nephelometric)	2.76		NTU	0.2		12/6/2019	2:33 PM	EPA 180.1
Vanadium	4.98		µg/L	1.0	4.0	12/11/2019	12:35 PM	EPA 200.8
Zinc	2.48	I	µg/L	1.0	4.0	12/11/2019	12:35 PM	EPA 200.8

Laboratory ID	AE31421	Collection date and time	12/5/2019 10:10 AM
Location Code	EBTEB	Sample Collector	ZANE XANDERS
Sample Description	Field Cleaned Equipment Blank		

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	12/13/2019	7:50 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	12/13/2019	7:50 AM	SM21 10200 H
Aluminum	5.0	U	µg/L	5.0	20.0	12/19/2019	9:41 AM	EPA 200.8
Arsenic	0.5	U	µg/L	0.5	2	12/11/2019	12:35 PM	EPA 200.8
Barium	0.5	U	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Beryllium	0.25	U	µg/L	0.25	1.00	12/11/2019	12:35 PM	EPA 200.8

Report Format: NELAC

DOH #E45049



Laboratory ID AE31421
Location Code EBTEB
Sample Description Field Cleaned Equipment Blank

Collection date and time 12/5/2019 10:10 AM
Sample Collector ZANE XANDERS

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Biochemical Oxygen Demand 5 day	0.3	Y U	mg/L	0.3	1.2	12/6/2019	11:14 AM	SM 5210 B
Calcium by ICP	0.250	U	mg/L	0.25	1.00	12/11/2019	8:59 AM	EPA 200.7
Cadmium	0.3	U	µg/L	0.3	1.2	12/11/2019	12:35 PM	EPA 200.8
Chloride	1.60	U	mg/L	1.60	6.4	12/9/2019	2:55 PM	SM 4500-Cl ⁻ D
Color	1.6	Y U	CU	1.6	6.4	12/6/2019	10:25 AM	SM21 2120 C
Chromium	0.5	U	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Copper	0.5	U	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Enterococci	10	Y U	MPN/100mL	10		12/5/2019	2:37 PM	Enterolert®
Iron by ICP	0.005	U	mg/L	0.005	0.020	12/11/2019	8:59 AM	EPA 200.7
Magnesium by ICP	0.25	U	mg/L	0.25	1.00	12/11/2019	8:59 AM	EPA 200.7
E.coli Enumeration	10	Y U	MPN/100mL	10		12/5/2019	2:59 PM	Colilert-18®
Manganese	0.5	U	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Molybdenum	0.50	U	µg/L	0.50	2.0	12/11/2019	12:35 PM	EPA 200.8
Ammonia	0.014	Y U	mg/L as N	0.014	0.056	12/6/2019	9:04 AM	EPA 350.1
Nickel	0.75	U	µg/L	0.75	3.00	12/11/2019	12:35 PM	EPA 200.8
Nitrite	0.003	Y U	mg/L as N	0.003	0.012	12/5/2019	2:30 PM	EPA 353.2
Nitrate	0.010	Y U	mg/L as N	0.01	0.04	12/5/2019	2:30 PM	EPA 353.2
Nitrate + Nitrite	0.010	Y U	mg/L as N	0.01	0.04	12/5/2019	2:30 PM	EPA 353.2
Nitrogen, Organic	0.050	Y U	mg/L as N	0.05	0.2	12/11/2019	9:19 AM	TKN - NH ₃
Phosphorus, Ortho	0.004	Y U	mg/L as P	0.004	0.016	12/6/2019	8:17 AM	EPA 365.1
Lead	0.5	U	µg/L	0.5	2.0	12/11/2019	12:35 PM	EPA 200.8
Antimony	1.0	U	µg/L	1.0	4.0	12/11/2019	12:35 PM	EPA 200.8
Selenium	0.5	U	µg/L	0.5	2	12/11/2019	12:35 PM	EPA 200.8
Silica, dissolved as SiO ₂	0.1	Y U	mg/L as SiO ₂	0.1	0.4	12/6/2019	8:17 AM	SM4500-SiO ₂ C
Total Hardness	0.25	U	mg/L as CaCO ₃	0.25	1.0	12/11/2019	8:59 AM	SM 2340 B
Nitrogen, Kjeldahl, Total	0.05	Y U	mg/L as N	0.05	0.2	12/11/2019	9:19 AM	EPA 351.2
Thallium	0.3	U	µg/L	0.3	1.2	12/11/2019	12:35 PM	EPA 200.8
Nitrogen, Total	0.060	Y U	mg/L as N	0.05	0.2	12/11/2019	9:19 AM	TKN + NO _x
Total Organic Carbon	1.000	U	mg/L	1	4	12/10/2019	12:20 PM	SM 5310 B
Phosphorus, Total	0.006	Y U	mg/L as P	0.006	0.024	12/11/2019	9:22 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	12/6/2019	9:18 AM	SM 2540 D
Turbidity (Nephelometric)	0.2	U	NTU	0.2		12/6/2019	2:33 PM	EPA 180.1
Vanadium	1.0	U	µg/L	1.0	4.0	12/11/2019	12:35 PM	EPA 200.8
Zinc	1.0	U	µg/L	1.0	4.0	12/11/2019	12:35 PM	EPA 200.8



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.

Y U Improper preservation. Preservative may have been added upon receipt by lab. Temp may have been too high or frozen. 'U' indicates compound was 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

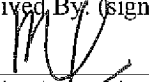
Analysis Request & Chain of Custody Record

LCEL does not accept any samples used for evidentiary purposes

Lab Certification: E45049

LCEL F COC 20150828R1

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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/Kelsey Lang				RE: EB Tribb									
Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901-2549				Address: 1500 Monroe St Ft Myers, FL 33901									
Phone: (239) 470-0873				Phone: (239) 533-8109									
Sample Collector(s) (please print): Rebecca Cray, Mike Cooper				Sample Collector Signature: 				Analyses Required					
Relinquished By: (signature) 		Date 12/1/19		Time 1204		Received By: (signature) 		SChloroa, _prep O-PO4, Color, NOx NH3, TKN, TN, NO3, ONIT, TOC Turb, Cl p, NO2, TSS, T-PO4, Silica, Bod, Bodi Mug2QT, Entero #WSMetals, THardC					
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:								Preservatives (see codes) NP NPF S NP ST N					
Collection Date Time		Sample Description & Location				Matrix (see codes)		# of Sample Containers Submitted				Lab ID #	
12-5-19 9:45		ImprGr01 pH=7.58 SpCond (mS/cm) = 39.348				5.8 ^{SW} °C		1 1 1 2 2 1				AE31420	
12-5-19 10:10		EBTeb pH=8.44 SpCond (mS/cm) = 0.002				8.5 ^{FB} °C		1 1 1 2 2 1				AE31421	

**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.