



PINELLAS COUNTY UTILITIES LABORATORY
1620 Ridge Road Bldg B, Largo, FL 33778
Phone: 727-582-2302
Fax: 727-588-4834



CERTIFICATE OF ANALYSIS

Client: Pinellas County - Environmental Management
Division
22211 US Hwy 19 N
Clearwater, FL 33756

Analyzed By: Pinellas County Utilities Laboratory
1620 Ridge Road Bldg B, Largo, FL 33778
Ph: 727-582-2302

State of Florida Certification: E54357

Workorder Number: 1900896

EPA Lab#: FL00123

Profile: Environmental Mgmt - Ambient

Line Item: EMD - Land Run

SAMPLE SITE	SAMPLE NO.	COLLECTED DATE/TIME	RECEIVED DATE/TIME
11-05 19-03	190089601	05/06/2019 09:37	05/06/2019 15:04
12-04 19-03	190089602	05/06/2019 10:02	05/06/2019 15:04
12-02 19-03	190089603	05/06/2019 10:38	05/06/2019 15:04
05-06 19-03	190089604	05/06/2019 11:33	05/06/2019 15:04
06-06 19-03	190089605	05/06/2019 12:24	05/06/2019 15:04
06-03 19-03	190089606	05/06/2019 12:51	05/06/2019 15:04
13-05 19-03	190089607	05/06/2019 13:30	05/06/2019 15:04
14-02 19-03	190089608	05/06/2019 14:00	05/06/2019 15:04

THIS REPORT MEETS TNi STANDARDS

All analytical data contained in this report were obtained using the specified methods and were verified by our laboratory quality system. All methods referenced in this report meet TNi requirements unless otherwise indicated by analytical data codes and/or remarks. Analytical results listed within this report pertain only to the specific samples listed. No other inferences can be made. All measurements are on a wet weight basis unless otherwise indicated by the units of measure. Uncertainty of Measurement for each analyte and the associated Quality Control data for these sample results will be provided upon request.

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CERTIFICATION STATEMENT

An asterisk (*) appearing next to an analyte indicates certification is not currently held for that test/analyte or that the certified test method has been sufficiently modified to accommodate the customer requirements that it no longer qualifies as certified.

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Pinellas County Utilities Laboratory
Contact Person: Terri Grimes
727-582-2322

Terri Grimes

05/20/2019

Terri Grimes
Laboratory Project Coordinator/QA Manager
tgrimes@pinellascounty.org

Date



ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089601**
Sample ID: **11-05 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 09:37
Matrix: Surface Water
Type: Grab

Parameters	Results	Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics									
Analytical Method: SM 2130B									
Turbidity	1.2	NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D									
Total Suspended Solids	1	U mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
Analytical Method: SM 10200H									
Chlorophyll a (Corrected)	1.3	mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll a (Uncorrected)	1.5	mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll b	0.5	U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll c	0.5	U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Pheophytin	0.5	U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Microbiology									
Analytical Method: SM 9223B									
E. coli	177	MPN/100mL	4	4		5/6/2019 15:49	QAC		MIC/2253
Nutrients									
Analytical Method: ASTM D3590-11B									
Total Kjeldahl Nitrogen	0.70	mg/L	1	0.10	0.40	5/14/2019 14:26	AMC		NUTR/2339
Analytical Method: EPA 365.1									
Total Phosphorus	0.18	mg/L	1	0.01	0.04	5/13/2019 13:24	AMC		NUTR/2343
Analytical Method: SM 4500PF									
Orthophosphate as P(Dissolved)	0.12	mg/L	1	0.01	0.04	5/7/2019 13:17	ISP		NUTR/2330
Analytical Method: SM 4500NH3H									
Ammonia	0.02	I mg/L	1	0.01	0.04	5/8/2019 12:14	AJH		NUTR/2333
Analytical Method: SM 4500NO3F									
Nitrate+Nitrite (N)	0.12	mg/L	1	0.01	0.04	5/8/2019 12:14	AJH		NUTR/2332

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089602**
Sample ID: **12-04 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 10:02
Matrix: Surface Water
Type: Grab

Parameters	Results Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics								
Analytical Method: SM 2130B								
Turbidity	2.0 NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D								
Total Suspended Solids	1 mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
Analytical Method: SM 10200H								
Chlorophyll a (Corrected)	3.5 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll a (Uncorrected)	4.6 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll b	0.5 U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll c	0.6 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Pheophytin	1.6 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Microbiology								
Analytical Method: SM 9223B								
E. coli	394 MPN/100mL	4	4		5/6/2019 15:49	QAC		MIC/2253
Nutrients								
Analytical Method: ASTM D3590-11B								
Total Kjeldahl Nitrogen	0.58 mg/L	1	0.10	0.40	5/14/2019 14:27	AMC		NUTR/2339
Analytical Method: EPA 365.1								
Total Phosphorus	0.16 mg/L	1	0.01	0.04	5/13/2019 13:25	AMC		NUTR/2343
Analytical Method: SM 4500PF								
Orthophosphate as P(Dissolved)	0.10 mg/L	1	0.01	0.04	5/7/2019 13:18	ISP		NUTR/2330
Analytical Method: SM 4500NH3H								
Ammonia	0.01 U mg/L	1	0.01	0.04	5/8/2019 12:15	AJH		NUTR/2333
Analytical Method: SM 4500NO3F								
Nitrate+Nitrite (N)	0.11 mg/L	1	0.01	0.04	5/8/2019 12:15	AJH		NUTR/2332

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089603**
Sample ID: **12-02 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 10:38
Matrix: Surface Water
Type: Grab

Parameters	Results Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics								
Analytical Method: SM 2130B								
Turbidity	1.8 NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D								
Total Suspended Solids	2 mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
Analytical Method: SM 10200H								
Chlorophyll a (Corrected)	6.0 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll a (Uncorrected)	7.2 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll b	1 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll c	0.5 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Pheophytin	1.7 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Microbiology								
Analytical Method: ASTM D6503-99								
Enterococci	771 MPN/100mL	10	10		5/6/2019 15:47	QAC		MIC/2248
Nutrients								
Analytical Method: ASTM D3590-11B								
Total Kjeldahl Nitrogen	0.66 mg/L	1	0.10	0.40	5/14/2019 14:29	AMC		NUTR/2339
Analytical Method: EPA 365.1								
Total Phosphorus	0.23 mg/L	1	0.01	0.04	5/13/2019 13:26	AMC		NUTR/2343
Analytical Method: SM 4500PF								
Orthophosphate as P(Dissolved)	0.16 mg/L	1	0.01	0.04	5/7/2019 13:19	ISP		NUTR/2330
Analytical Method: SM 4500NH3H								
Ammonia	0.03 I mg/L	1	0.01	0.04	5/8/2019 12:16	AJH	F	NUTR/2333
F - Sample filtered to remove excessive debris								
Analytical Method: SM 4500NO3F								
Nitrate+Nitrite (N)	0.08 mg/L	1	0.01	0.04	5/8/2019 12:16	AJH	F	NUTR/2332
F - Sample filtered to remove excessive debris								

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089604**
Sample ID: **05-06 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 11:33
Matrix: Surface Water
Type: Grab

Parameters	Results Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics								
Analytical Method: SM 2130B								
Turbidity	6.0 NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D								
Total Suspended Solids	6 mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
Analytical Method: SM 10200H								
Chlorophyll a (Corrected)	4.8 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll a (Uncorrected)	6.2 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll b	0.8 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll c	0.8 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Pheophytin	2.1 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Microbiology								
Analytical Method: SM 9223B								
E. coli	344 MPN/100mL	1	1		5/6/2019 15:49	QAC		MIC/2253
Nutrients								
Analytical Method: ASTM D3590-11B								
Total Kjeldahl Nitrogen	0.94 mg/L	1	0.10	0.40	5/14/2019 14:30	AMC		NUTR/2339
Analytical Method: EPA 365.1								
Total Phosphorus	0.08 mg/L	1	0.01	0.04	5/13/2019 13:27	AMC		NUTR/2343
Analytical Method: SM 4500PF								
Orthophosphate as P(Dissolved)	0.02 I mg/L	1	0.01	0.04	5/7/2019 13:20	ISP		NUTR/2330
Analytical Method: SM 4500NH3H								
Ammonia	0.01 U mg/L	1	0.01	0.04	5/8/2019 12:17	AJH		NUTR/2333
Analytical Method: SM 4500NO3F								
Nitrate+Nitrite (N)	0.01 U mg/L	1	0.01	0.04	5/8/2019 12:17	AJH		NUTR/2332

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089605** Date Received: 5/6/2019 15:04 Matrix: Surface Water
Sample ID: **06-06 19-03** Date Collected: 5/6/2019 12:24 Type: Grab

Parameters	Results Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics								
Analytical Method: SM 2130B								
Turbidity	2.2 NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D								
Total Suspended Solids	3 mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
I - Final dried residue < 2.5 mg as req'd by method								
Analytical Method: SM 10200H								
Chlorophyll a (Corrected)	NR mg/m3	1	0.5		5/9/2019 14:23	KAV	O	CHEM/2608
O - Sampled, but analysis lost or not performed.								
O - Sampled, but analysis lost or not performed.								
Chlorophyll a (Uncorrected)	NR mg/m3	1	0.5		5/9/2019 14:23	KAV	O	CHEM/2608
O - Sampled, but analysis lost or not performed.								
O - Sampled, but analysis lost or not performed.								
Chlorophyll b	NR mg/m3	1	0.5		5/9/2019 14:23	KAV	O	CHEM/2608
O - Sampled, but analysis lost or not performed.								
O - Sampled, but analysis lost or not performed.								
Chlorophyll c	NR mg/m3	1	0.5		5/9/2019 14:23	KAV	O	CHEM/2608
O - Sampled, but analysis lost or not performed.								
O - Sampled, but analysis lost or not performed.								
Pheophytin	NR mg/m3	1	0.5		5/9/2019 14:23	KAV	O	CHEM/2608
O - Sampled, but analysis lost or not performed.								
O - Sampled, but analysis lost or not performed.								
Microbiology								
Analytical Method: SM 9223B								
E. coli	12 MPN/100mL	1	1		5/6/2019 15:49	QAC		MIC/2253
Nutrients								
Analytical Method: ASTM D3590-11B								
Total Kjeldahl Nitrogen	0.79 mg/L	1	0.10	0.40	5/14/2019 14:31	AMC		NUTR/2339
Analytical Method: EPA 365.1								
Total Phosphorus	0.04 mg/L	1	0.01	0.04	5/13/2019 13:28	AMC		NUTR/2343
Analytical Method: SM 4500PF								
Orthophosphate as P(Dissolved)	0.01 I mg/L	1	0.01	0.04	5/7/2019 13:21	ISP		NUTR/2330
Analytical Method: SM 4500NH3H								
Ammonia	0.01 U mg/L	1	0.01	0.04	5/8/2019 12:19	AJH		NUTR/2333

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089605**
Sample ID: **06-06 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 12:24
Matrix: Surface Water
Type: Grab

Parameters	Results Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Analytical Method: SM 4500NO3F								
Nitrate+Nitrite (N)	0.01 U mg/L	1	0.01	0.04	5/8/2019 12:19	AJH		NUTR/2332

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089606**
Sample ID: **06-03 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 12:51
Matrix: Surface Water
Type: Grab

Parameters	Results Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics								
Analytical Method: SM 2130B								
Turbidity	0.8 NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D								
Total Suspended Solids	1 U mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
Analytical Method: SM 10200H								
Chlorophyll a (Corrected)	2.8 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll a (Uncorrected)	3.3 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll b	0.5 U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll c	0.5 U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Pheophytin	0.6 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Microbiology								
Analytical Method: SM 9223B								
E. coli	9680 MPN/100mL	4	4		5/6/2019 15:49	QAC		MIC/2253
Nutrients								
Analytical Method: ASTM D3590-11B								
Total Kjeldahl Nitrogen	0.54 mg/L	1	0.10	0.40	5/14/2019 14:32	AMC		NUTR/2339
Analytical Method: EPA 365.1								
Total Phosphorus	0.12 mg/L	1	0.01	0.04	5/13/2019 13:29	AMC		NUTR/2343
Analytical Method: SM 4500PF								
Orthophosphate as P(Dissolved)	0.09 mg/L	1	0.01	0.04	5/7/2019 13:22	ISP		NUTR/2330
Analytical Method: SM 4500NH3H								
Ammonia	0.01 U mg/L	1	0.01	0.04	5/8/2019 12:20	AJH	F	NUTR/2333
F - Sample filtered to remove excessive debris								
Analytical Method: SM 4500NO3F								
Nitrate+Nitrite (N)	0.07 mg/L	1	0.01	0.04	5/8/2019 12:20	AJH	F	NUTR/2332
F - Sample filtered to remove excessive debris								

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089607**
Sample ID: **13-05 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 13:30
Matrix: Surface Water
Type: Grab

Parameters	Results	Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics									
Analytical Method: SM 2130B									
Turbidity	2.0	NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D									
Total Suspended Solids	2	mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
Analytical Method: SM 10200H									
Chlorophyll a (Corrected)	5.4	mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll a (Uncorrected)	9.8	mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll b	0.6	mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll c	0.6	mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Pheophytin	7	mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Microbiology									
Analytical Method: SM 9223B									
E. coli	99	MPN/100mL	2	2		5/6/2019 15:49	QAC		MIC/2253
Nutrients									
Analytical Method: ASTM D3590-11B									
Total Kjeldahl Nitrogen	0.74	mg/L	1	0.10	0.40	5/14/2019 14:33	AMC		NUTR/2339
Analytical Method: EPA 365.1									
Total Phosphorus	0.15	mg/L	1	0.01	0.04	5/13/2019 13:31	AMC		NUTR/2343
Analytical Method: SM 4500PF									
Orthophosphate as P(Dissolved)	0.10	mg/L	1	0.01	0.04	5/7/2019 13:23	ISP		NUTR/2330
Analytical Method: SM 4500NH3H									
Ammonia	0.05	mg/L	1	0.01	0.04	5/8/2019 12:21	AJH	F	NUTR/2333
F - Sample filtered to remove excessive debris									
Analytical Method: SM 4500NO3F									
Nitrate+Nitrite (N)	0.03	mg/L	1	0.01	0.04	5/8/2019 12:21	AJH	F	NUTR/2332
F - Sample filtered to remove excessive debris									

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ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089608**
Sample ID: **14-02 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 14:00
Matrix: Surface Water
Type: Grab

Parameters	Results Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Inorganics								
Analytical Method: SM 2130B								
Turbidity	0.6 NTU	1	0.1		5/7/2019 09:36	KDP		CHEM/2607
Analytical Method: SM 2540D								
Total Suspended Solids	1 U mg/L	1	1		5/9/2019 13:30	MLP		CHEM/2630
Analytical Method: SM 2320B								
Total Alkalinity	49 mg/L as CaCO3	1	1	4	5/8/2019 14:30	JDH		CHEM/2620
Phenolphthalein Alkalinity	0 mg/L as CaCO3	1	0		5/8/2019 14:30	JDH		CHEM/2620
Bicarbonate Alkalinity	49 mg/L as CaCO3	1	1		5/8/2019 14:30	JDH		CHEM/2620
Carbonate Alkalinity	0 mg/L as CaCO3	1	0		5/8/2019 14:30	JDH		CHEM/2620
Analytical Method: SM 10200H								
Chlorophyll a (Corrected)	1.9 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll a (Uncorrected)	2.1 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Chlorophyll b	0.5 U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
The Absolute Difference between the duplicate results is less than or equal to the LOD; data not qualified.								
Chlorophyll c	0.9 mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Pheophytin	0.5 U mg/m3	1	0.5		5/9/2019 14:23	KAV		CHEM/2608
Microbiology								
Analytical Method: SM 9223B								
E. coli	10 MPN/100mL	1	1		5/6/2019 15:49	QAC		MIC/2253
Nutrients								
Analytical Method: ASTM D3590-11B								
Total Kjeldahl Nitrogen	0.64 mg/L	1	0.10	0.40	5/14/2019 14:35	AMC		NUTR/2339
Analytical Method: EPA 365.1								
Total Phosphorus	0.01 I mg/L	1	0.01	0.04	5/13/2019 13:32	AMC		NUTR/2343
Analytical Method: SM 4500PF								
Orthophosphate as P(Dissolved)	0.01 U mg/L	1	0.01	0.04	5/7/2019 13:24	ISP		NUTR/2330
Analytical Method: SM 4500NH3H								
Ammonia	0.01 U mg/L	1	0.01	0.04	5/8/2019 12:22	AJH		NUTR/2333

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Phone: 727-582-2302
Fax: 727-588-4834



ANALYTICAL RESULTS

Workorder: 1900896

Lab ID: **190089608**
Sample ID: **14-02 19-03**

Date Received: 5/6/2019 15:04
Date Collected: 5/6/2019 14:00
Matrix: Surface Water
Type: Grab

Parameters	Results	Units	DF	LOD	LOQ	Analyzed	By	Qualifiers	QC Batch ID
Analytical Method: SM 4500NO3F									
Nitrate+Nitrite (N)	0.01 U	mg/L	1	0.01	0.04	5/8/2019 12:22	AJH		NUTR/2332

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