



**BIOLOGICAL CONSULTING SERVICES**  
*OF NORTH FLORIDA, INC.*

June 08, 2018

Ray Percle  
Terrebonne Parish Consolidated Waterworks District 1  
PO Box 630  
Houma LA 70361  
985-446-7509  
rpercle@tpcg.org  
Client ID: ACR182 588 Island Road Pac, 4260 Hwy 665 PAC Marina

BCS ID: 1805304, 1805305

Dear Ray Percle,

We have completed the analysis of the submitted samples as outlined below.

Project Name: PWS ID 1109002

Analysis	Method
Naegleria Fowleri (Culture/PCR)	CDC method; BCS SOP A-1 (NOT ISO17025 & NOT TNI Accredited)

Following, you will find our report on the results of the analysis conducted on the referenced samples. Should you have any questions, please do not hesitate to contact me.

Sincerely,

Bonnie Mull, MPH  
Laboratory Operations Manager

**BCS LABORATORIES, INC. — GAINESVILLE**  
4609 NW 6TH STREET, STE. A, GAINESVILLE, FLORIDA 32609  
TEL. (352) 377-9272, Fax. (352) 377-5630  
WWW.MICROBIOSERVICES.COM

FL DOH #E82924, ISO/IEC 17025:2005 L2422 (ANAB), PA DEP# 68-03950, EPA# FLO1147  
THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF BCS LABORATORIES



Client: Terrebonne Parish Consolidated Waterworks District 1  
Analysis: *Naegleria Fowleri* (Culture/PCR)  
Project Name: PWS ID 1109002  
Client Sample ID: ACR182 588 Island Road Pac Sample Date/Time: May 29, 2018 9:50  
BCS Sample ID: 1805304 Sample Description: Rexeed 25S Ultrafilter  
Date Received: May 30, 2018 12:22 Amount Submitted: 101.1 % Solids: N/A  
Amount Analyzed: 101.1 L Receipt Temperature: 25.6 deg C Preserved: No  
Analysis Start: May 30, 2018 14:22 Analysis Stop Date: June 07, 2018 16:35  
Analyst: Bonnie Mull, M.P.H. Qualifier: #:U  
Primary Value: 1.0 Visual presence of Amoeba/Cysts (0 for absence/1.0 for presence)  
Secondary Value: 0 *Naegleria fowleri* DNA detection (0 for absence/1.0 for presence)  
Analysis Notes: Active amoeba trophozoites not visually detected. Potential cysts visually detected. *N. fowleri* PCR assay was not positive. Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units

Client: Terrebonne Parish Consolidated Waterworks District 1  
Analysis: *Naegleria Fowleri* (Culture/PCR)  
Project Name: PWS ID 1109002  
Client Sample ID: 4260 Hwy 665 PAC Marina Sample Date/Time: May 29, 2018 10:50  
BCS Sample ID: 1805305 Sample Description: Rexeed 25S Ultrafilter  
Date Received: May 30, 2018 12:22 Amount Submitted: 100.3 L % Solids: N/A  
Amount Analyzed: 100.3 L Receipt Temperature: 25.6 deg C Preserved: No  
Analysis Start: May 30, 2018 14:22 Analysis Stop Date: June 07, 2018 16:35  
Analyst: Bonnie Mull, M.P.H. Qualifier: #  
Primary Value: 1.0 Visual presence of Amoeba/Cysts (0 for absence/1.0 for presence)  
Secondary Value: 1.0 *Naegleria fowleri* DNA detection (0 for absence/1.0 for presence)  
Analysis Notes: Active amoeba trophozoites visually detected. *N. fowleri* PCR assay was positive. *N. fowleri* was detected in submitted sample.

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Client: Terrebonne Parish Consolidated Waterworks District 1

Project: PWS ID 1109002

Method Detection Limit: 1 microorganism/ unit weight or volume analyzed

Practical Quantitation Limit: 1 microorganism/ unit weight or volume analyzed

Report Notes: Custody Seal Condition: Not Present

Sample(s) were received well preserved and in excellent condition. Sample(s) were analyzed following receipt as per the described analytical methodology. End of report notes.

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I certify that I have examined I am familiar with the information submitted herein. The results pertain only to analyzed sample(s) associated identifier #(s). Based on my inquiry of the individuals responsible for the analysis, I believe the data to be true, accurate, complete. Sampling field data was obtained from submitted documents. The analysis was authorized commissioned by the client. The resulting data are representative of the analysis conducted on the material/samples/articles provided by the client (or client's representative) it's/their condition at the time of analysis. The sample(s) were analyzed in accordance with the appropriate method , however due to the inherent limitations of the methods, microorganisms may avoid detection. BCS Laboratories offers no express or implied warranties concerning the quality, safety, and/or purity of any sample, batch, source, or the process they are derived from. Quality assurance controls were performed as outlined in the method and as per Good Laboratory Practices. The analysis results presented in this report meet the requirements of the standards of The NELAC Institute (TNI), ISO 17025, and the FL DOH Environmental Laboratory Certification Program, as applicable unless otherwise noted.

Signature of Laboratory Director/Authorized Rep. \_\_\_\_\_

*Bonnie Mull*

Date: June 08, 2018

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**DATA QUALIFIER CODES****SYMBOL MEANING**

B	Results based on counts outside the acceptable range.
X	Sample received without prior notification or delayed delivery. Analysis performed outside of associated method required QC data set (1 QC data set per 20 samples per 168 hours).
I	Value is between the laboratory method detection limit & laboratory practical quantitation limit.
J1	The sample matrix interfered with the ability to make any accurate determination.
J2	No Quality Control criteria exist for the component.
J3	The data are questionable because of improper laboratory or field protocols.
L	Off scale high. Actual value is known to be greater than value given.
N	Presumptive evidence for the presence of material. There is an indication that the analyte is present, but the confirmation requirement was not met.
O	Sampled, but analysis not performed.
Q	Sample held beyond the accepted holding time.
U	Indicates that the compound was analyzed for but not detected. The specified component was not detected. The reported value is the method detection limit.
V	Analyte was detected in both sample and associated method blank. Data may not be accurate.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies present (TNTC); the numeric value given represents the upper end of the value that can be determined based on the volume.
?	Data are rejected and should not be used. QC data for analyte did not meet acceptance criteria. Presence or absence of analyte could not be confirmed.
**	Not reported due to interference.
^	BCS is not currently accredited for this analyte.
#	BCS Lab specific qualifier. See laboratory analysis notes.

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CHAIN OF CUSTODY RECORD

BCS Laboratories

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[www.microbioservices.com](http://www.microbioservices.com)

FL DOH Laboratory #E82924, EPA# FL01147



inc.

Client Name and Address: Terrebonne Parish Consolidated Waterworks District #1

City/State/Zip: P.O. Box 630 Houma LA 70361

Project Manager: RAY PERCLE

Telephone Number: 985-446-7509 Fax No.:

Sampler Name: (Print) RAY PERCLE

Sampler Signature: Ray Percle

Compliance Monitoring?  Yes  No

Project ID: PWS FD: 1109002

Facility/Site: SWTP/DISTRIBUTION ACR

Report To: RAY PERCLE

Email: rpercle@tpcg.org

Invoice To: rpercle@tpcg.org

Sample ID / Description	Preservative										Matrix										Analysis														
	Date Sampled	Time Sampled	No. of containers shipped	Grab	Composite	Field Filtered	pH at collection	Temperature at collection	Na Thiosulfate	Ice / frozen ice packs	Other (specify):	Groundwater	Wastewater	Drinking Water	Biosolid/Sludge/Soil (circle)	Other (specify):	Culture Enteroviruses/Enteric virus	EPA 1615 enterovirus	EPA 1615 Noroviruses	Cryptosporidium & Giardia	E. coli	Enterococcus	Total Coliform	Yeast & Mold	Fecal coliform	Helminth Ova	Plate Count Bacteria (HPC)	Salmonella spp	Legionella (Culture or Genetic)	Pseudomonas	N. fowleri	Other:	RUSH TAT (Fee Applies)		
ACR 182 588	5/29/18	9:50	1			X	7.0	X					X																						
ISLAND ROAD PAC																																			
4260 Hwy 665	5/29/18	10:50	1			X	7.0	X					X																						
PAC MARINA																																			

Special Instructions: No ICE Pack

Relinquished by: Ray Percle

Relinquished by: K. Sayler

Date: 5-29-18

Date: 5/30/18

Time: 1500

Time: 1222

Method of Shipment: FEDEX Other: UPS Postal DHL

Received by:

Received by BCS Laboratories: K. Sayler

Temp. @ receipt: 24.8 IR-6 25.6 °C

Corrected for IR: N/A

Custody Seal: Intact Y Broken Y

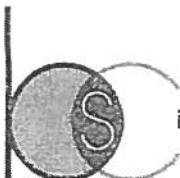
Presence of visible ice: Y

Presence of ice packs: Y

Hold Time: ✓

Laboratory Comments:

10/20/2015 Current QAC; 2017 BCS Laboratory Logo & Formwork; 10/17/17 BCS Laboratory Logo & Formwork; 10/17/17 BCS Laboratory Logo & Formwork



inc. **BIOLOGICAL CONSULTING SERVICES**  
OF NORTH FLORIDA, INC.

Terrebonne Parish  
ACR182 588 Island Road Pac  
1805304  
05/30/2018 12:22

<b>Client:</b> <i>Terrebonne Consolidated Waterworks District #1</i>		<b>Sample Name/Site/Number:</b> <i>ACR 182/588 ISLAND Road PAC</i>	
<b>Project Facility:</b> <i>SWTP/Distribution System</i>		<b>Sample Collection Date:</b> <i>5/29/18</i>	
Circle appropriate for each of the below:			
<b>Filter Type:</b> Nanoceram (virus), Envirochek (Parasite), <input checked="" type="checkbox"/> Rexeed (N. fowleri) Other _____			
<b>Matrix:</b> Reclaimed WW, Ground water, Surface Water, <input checked="" type="checkbox"/> Drinking Water, Other _____			
<b>Analysis Requested:</b> < Enteric viruses EPA 600/r-95/178 or EPA 1615> <Enteric viruses EPA1615> <Cryptosporidium & Giardia EPA1623.1> < LT2 Compliance> <Helminth Ova> <input checked="" type="checkbox"/> Amoeba: N. <input checked="" type="checkbox"/> Fowleri other: _____			
<b>Purge Time (for wells):</b> _____		<b>Turbidity (for LT-2 Crypto):</b> _____	
<b>Water pH (for viruses; obtain 3 readings 10-15 minutes apart):</b> <i>7.03</i>			
<b>Chlorine residual Measurement</b> <i>1.62 Total Chlorine</i>			
<b>Sample Dechlorinated:</b> <i>Yes</i>		<b>Dechlorination method:</b> <i>Sodium Thio Sulfate</i>	
<b>Post Chlorine residual:</b> _____		<b>Test ID</b> <i>WF8M-12390-34</i>	
<b>Volume Collected (gallons/liters):</b> <i>26.7 gals</i>			
<b>Meter Start Reading:</b> <i>120.4</i>		<b>Meter End Reading:</b> <i>147.1</i>	
<b>Sampling Time (minutes):</b> <i>15 minutes</i>			
<b>Start:</b> <i>9:40 AM</i> <sup>5/29/18</sup>		<b>End:</b> <i>10:05 AM</i>	
<b>Sampling Conditions:</b> <i>Sunny Clear 88° F</i>			
<b>Estimated volume or weight (only for solids) of sample collected:</b>			
<b>Rush processing:</b> yes / <input checked="" type="checkbox"/> no (surcharges apply for rush processing)			
<b>Collected By:</b> <i>RAY PERCIE</i>	<b>Method of Transportation:</b> <i>FED EX</i>	<b>Complete if no COC is submitted along with sample</b>	
<b>Preservation:</b> <i>AMBIENT TEMP</i>		<b>Received By:</b> <i>see WOU</i>	
		<b>Time:</b>	<b>Date:</b>
		<b>Temp:</b>	

FILE:FIELD DATA SHEET VERSION B 04 21 2016

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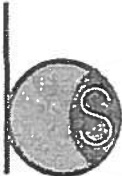
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ACCREDITATION  
BUREAU  
ACCREDITED





inc. **BIOLOGICAL CONSULTING SERVICES**  
OF NORTH FLORIDA, INC.

Terrebonne Parish  
4260 Hwy 665 PAC Marina  
1805305  
05/30/2018 12:22

<b>Client:</b> Terrebonne Consolidated Waterworks District # 1		<b>Sample Name/Site/Number:</b> 4260 Hwy 665 PAC MARINA	
<b>Project Facility:</b> SWTP / Distribution System		<b>Sample Collection Date:</b> 5/29/18	
<b>Circle appropriate for each of the below:</b>			
<b>Filter Type:</b> Nanoceram (virus), Envirochek (Parasite), <u>Rexeed (N. fowleri)</u> Other _____			
<b>Matrix:</b> Reclaimed WW, Ground water, Surface Water, <u>Drinking Water</u> Other _____			
<b>Analysis Requested:</b> < Enteric viruses EPA 600/r-95/178 or EPA 1615> < Enteric viruses EPA 1615> < Cryptosporidium & Giardia EPA 1623.1> < LT2 Compliance> < Helminth Ova> <u>&lt; Amoeba: N. fowleri&gt;</u> other: _____			
<b>Purge Time (for wells):</b> _____		<b>Turbidity (for LT-2 Crypto):</b> _____	
<b>Water pH (for viruses; obtain 3 readings 10-15 minutes apart):</b> <u>6.99</u>			
<b>Chlorine residual Measurement:</b> <u>1.69</u>			
<b>Sample Dechlorinated:</b> <u>Yes</u>		<b>Dechlorination method:</b> <u>Sodium Thiosulfate</u>	
<b>Post Chlorine residual:</b> _____		<b>Test ID:</b> <u>UF 8M 02130 54</u>	
<b>Volume Collected (gallons/liters):</b> <u>26.5</u>			
<b>Meter Start Reading:</b> <u>147.1</u>		<b>Meter End Reading:</b> <u>173.6</u>	
<b>Sampling Time (minutes):</b> <u>35 min</u>			
<b>Start:</b> <u>10:50 AM</u>		<b>End:</b> <u>11:25</u>	
<b>Sampling Conditions:</b> <u>Sunny, Clear, 88°F</u>			
<b>Estimated volume or weight (only for solids) of sample collected:</b> _____			
<b>Rush processing:</b> yes <input type="radio"/> no <input checked="" type="radio"/> (surcharges apply for rush processing)			
<b>Collected By:</b> <u>RAY PERCLE</u>		<b>Method of Transportation:</b> <u>FED EX</u>	
<b>Preservation:</b> <u>AMBIENT Temp</u>		<b>Complete if no COC is submitted along with sample</b>	
		<b>Received By:</b> <u>cel wu</u>	
		<b>Time:</b> _____	
		<b>Date:</b> _____	
		<b>Temp:</b> _____	

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