

## RELATÓRIO DE ENSAIO COMUNIDADE FITOPLANCTÔNICA

Análise nº 0002/2018

1. Identificação do Contratante	
Razão Social: ECOLOGIC Centro de Avaliações e Perícias Ambientais Promissão Ltda -EPP	CNPJ: 11.458.622/0001-84
Endereço: Rua Cnel. João Francisco Coelho n. 210, Sala 4.	I.E.: 564.099.990.119
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Dados referentes as amostras
<b>2. Número da amostra:</b> PRB20, PRB30, PRB40, PRB50, PRB60, PRB70, PRBCEDAE, PRB80, PRB90, PRB100, PRB110, ARE10, ARE20, ARE25, ARE30, LOU10, LOU20, LOU25, LOU30, CNL10, MCO10, MCO20, TOC10, TOC20, CAL20, PRT20, ANT10, PXE10

3. Dados de Coleta de Campo	
Local/Descrição: Rio Paraíba do Sul (PRB50, PRB60, PRB70, PRBCEDAE, PRB80, PRB90, PRB100, PRB110), Reservatório de Anta (PRB20, PRB30, PRB40), reservatório de Louriçal (ARE25, ARE30, LOU25, LOU30), tributários ARE 10, ARE20, LOU10, LOU20, MCO10, MCO 20, Canal: CNL10, reservatório do Tocaia: TOC10 e TOC20. Reservatório de Calçado: CAL20 e tributário: PRT20, reservatório de Antonina e tributário: PXE10.	
Coletor:	Corina Sidagis e Alexande Santos
Data e Hora da Coleta:	26/01/2018 a 28/01/2018 7:00 as 16:00 hs
Tipo de amostra:	Água bruta (X)      Água tratada ( )
Chuvas ultim. 24 horas:	Sim (X)              Não ( )
Rede utilizada:	20 µm
Preservação da amostra:	Qualitativo com formol 8% e Quantitativo com lugol

4. Dados do Recebimento da Amostra no Laboratório	
Data e hora do Recebimento:	01/02/2018 as 10:30
Observações: Metodologias utilizadas Fitoplâncton (quali) - CETESB L5.303 2012 Fitoplâncton (quanti) - ind/mL CETESB L5.303 2012	

## ENSAIO QUANTITATIVO DO FITOPLÂNCTON

Fitoplâncton - Táxons Janeiro 2018	PRB40	PRB30	PRB20	PRB50	PRB60	PRB70	PRB CEDAE	PRB80	PRB90	PRB100	PRB110
<b>BACILLARIOPHYCEAE</b>											
<i>Achnantheidium minutissimum</i> (Kütz.) Czarn.	0	0	0	0	0	0	0	0	8	0	0
<i>Anoemoneis vitrea</i> (Grun.) Ross	0	0	0	0	0	0	0	8	8	0	0
<i>Anoemoneis</i> spp	0	0	0	0	0	0	0	0	8	0	0
<i>Aulacoseira granulata</i> (Ehr.) Sim. var. <i>granulata</i>	0	0	0	0	0	0	0	8	0	7	31
<i>A.</i> (Ehr.) Sim. var. <i>angustissima</i> (O.Müll.) Sim.	12	0	8	0	0	24	0	8	24	15	0
<i>Cocconeis placentula</i> Ehr. var. <i>placentula</i>	0	0	0	0	0	16	0	0	0	0	0
<i>Cyclotella stelligera</i> Cleve & Grun.	25	0	0	0	0	8	0	0	0	0	8
<i>Encyonema perpusillum</i> (Cl.) Mann	0	0	24	0	0	0	0	0	0	0	0
<i>Eunotia</i> spp	0	0	0	7	8	8	0	0	0	7	0
<i>Gomphonema gracile</i> Ehr.	0	0	0	0	0	8	0	0	0	0	0
<i>Gomphonema parvulum</i> var. <i>lagenula</i> Freng.	0	0	0	0	0	0	0	0	8	0	16
<i>Gomphonema parvulum</i> (Kütz.) var. <i>parvulum</i>	0	0	8	0	0	0	0	0	0	0	0
<i>Gomphonema</i> sp	0	0	0	0	0	8	0	0	0	0	0
<i>Gyrosigma acuminatum</i> (Kütz.) Rabh.	0	0	0	0	0	0	0	0	0	7	0
<i>Gyrosigma spencerii</i> (Quek) Griff. & Henfr.	0	0	0	0	0	0	7	0	0	0	0
<i>Melosira varians</i> C.A.Ag.	0	0	8	0	0	0	0	0	0	0	0
<i>Navicula aikenensis</i> Patr.	0	0	0	0	8	0	0	0	0	0	0
<i>Navicula hustedtii</i> Kras.	0	7	0	0	0	0	0	0	0	0	0
<i>Navicula viridula</i> (Kütz.) Ehr.	0	0	8	0	0	16	0	0	0	0	8
<i>Navicula</i> spp	0	0	8	0	0	0	0	0	0	0	8
<i>Neidium affine</i> (Ehr.) Cleve	0	0	8	0	0	0	0	0	0	0	0
<i>Nitzschia acicularis</i> (Kütz.) W.Sm.	0	15	8	0	0	0	0	0	8	0	0
<i>Nitzschia amphibia</i> Grun.	0	0	0	0	0	0	0	0	0	0	8
<i>Nitzschia palea</i> (Kütz.) W.Sm.	0	0	24	0	8	8	0	0	8	0	8
<i>Pinnularia braunii</i> (Grun.) Cleve	0	0	8	0	0	0	0	0	0	0	0
<i>Pinnularia</i> spp	0	0	0	0	0	0	0	0	0	7	0
<i>Synedra goulardii</i> Bréb.	0	0	8	0	0	0	0	0	0	0	0
<b>Total</b>	<b>37</b>	<b>22</b>	<b>118</b>	<b>7</b>	<b>24</b>	<b>94</b>	<b>7</b>	<b>24</b>	<b>71</b>	<b>44</b>	<b>86</b>

### ZYGNEMAPHYCEAE

Fitoplâncton - Táxons Janeiro 2018	PRB40	PRB30	PRB20	PRB50	PRB60	PRB70	PRB CEDAE	PRB80	PRB90	PRB100	PRB110
<i>Closterium</i> spp	0	0	8	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>CHLOROPHYCEAE</b>											
<i>Actinastrum hantzschii</i> (Lager.)	12	0	0	0	0	0	0	8	0	0	0
<i>Ankistrodesmus fusiformis</i> Corda sensu Kors.	0	0	0	15	0	0	0	0	0	0	0
<i>Ankistrodesmus gracilis</i> (Reisch) Kors.	0	0	8	0	8	0	0	8	0	7	0
<i>Schroederia judayi</i> Smith	0	0	8	7	0	16	0	0	0	0	0
<i>Botryococcus braunii</i> Kütz.	0	0	0	7	0	0	0	0	0	0	0
<i>Carteria</i> sp	62	0	0	22	16	0	0	0	0	0	0
<i>Chlamydomonas</i> spp	0	29	0	0	0	0	0	0	0	0	0
<i>Closteriopsis acicularis</i> (Sm.)	0	7	0	0	0	8	0	0	0	0	0
<i>Coelastrum cambricum</i> Archer	0	0	0	7	0	0	0	0	0	0	0
<i>Coelastrum reticulatum</i> Dang.	12	0	0	0	0	8	0	0	0	0	0
<i>Dictyosphaerium ehrenbergianum</i> Nägæli	0	0	0	0	0	8	0	0	0	0	0
<i>Dictyosphaerium pulchellum</i> Wood	74	22	16	37	31	8	7	24	8	7	8
<i>Eudorina elegans</i> Ehr.	0	0	0	0	0	8	0	0	0	0	0
<i>Eutetramorus fottii</i> (Hind.) Kom.	74	0	0	7	0	0	0	0	0	7	0
<i>Monoraphidium arcuatum</i> (Kors.) Hindak	0	7	0	0	0	0	0	0	0	0	0
<i>Monoraphidium griffithii</i> (Berk.) Kom.-Legner	0	0	24	0	0	0	0	0	0	0	0
<i>Pandorina morum</i> (Müll.) Bory	111	0	0	0	8	0	0	0	0	0	0
<i>Pediastrum simplex</i> Meyen	0	0	0	0	0	8	0	0	0	0	0
<i>Scenedesmus acuminatus</i> (Lag.) Chod.	0	0	0	0	0	0	0	0	8	0	0
<i>Scenedesmus arcuatus</i> (Lemm.) Lemm.	0	0	0	0	8	0	0	0	0	0	0
<i>Scenedesmus bicaudatus</i> (Hansg.) Chod.	0	0	0	7	0	0	0	0	0	0	0
<i>Scenedesmus bijugus</i> (Turp.) Kütz.	0	0	0	0	0	8	0	0	0	0	0
<i>Scenedesmus opoliensis</i> Ritch.	0	0	0	0	0	0	7	0	0	0	0
<i>S. quadricauda</i> (Turp.) Bred. sensu Chod.	12	7	8	0	8	16	7	0	0	7	0
<i>Scenedesmus</i> sp	0	0	8	0	0	0	0	0	0	0	0
<i>Schroederia setigera</i> (Schr.) Lemm.	0	7	0	0	0	0	0	0	0	0	0
<i>Volvox aureus</i> Ehr.	12	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>371</b>	<b>80</b>	<b>71</b>	<b>112</b>	<b>79</b>	<b>86</b>	<b>22</b>	<b>39</b>	<b>16</b>	<b>29</b>	<b>8</b>
<b>CYANOPHYCEAE</b>											
<i>Dolichospermum spiroides</i> (Kleb.)Wal.,Hoff. & Kom.	0	0	0	0	0	0	0	0	8	0	0

<b>Fitoplâncton - Táxons Janeiro 2018</b>	<b>PRB40</b>	<b>PRB30</b>	<b>PRB20</b>	<b>PRB50</b>	<b>PRB60</b>	<b>PRB70</b>	<b>PRB CEDAE</b>	<b>PRB80</b>	<b>PRB90</b>	<b>PRB100</b>	<b>PRB110</b>
<i>Aphanizomenon cf. gracile</i> Lemm.	12	0	0	30	31	31	15	16	31	15	0
<i>Cylindropermopsis raciborskii</i> (Wol.) See. & Raju	12	0	0	0	0	0	0	0	0	0	0
<i>Jaaginema quadripunctulatum</i> (Brühl et Bisw.) Anag. et Kom.	0	0	0	0	8	0	0	8	8	0	0
<i>Lyngbya</i> spp	0	0	0	0	0	16	0	0	0	0	0
<i>Microcystis aeruginosa</i> (Kütz.) Kütz.	12	0	0	15	24	0	0	16	0	15	0
<i>Oscillatoria</i> spp	0	0	0	0	0	0	0	0	8	0	0
<i>Planktothrix cf. agardhii</i> (Gom.) Anag. and Kom.	0	0	0	0	0	8	0	0	8	0	0
<b>Total</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>63</b>	<b>55</b>	<b>15</b>	<b>39</b>	<b>63</b>	<b>29</b>	<b>0</b>
<b>CRYPTOPHYCEAE</b>											
<i>Chroomonas acuta</i> Utermöhl	0	15	0	0	0	0	0	0	0	0	0
<i>Chroomonas</i> spp	470	292	134	209	220	259	175	212	196	205	259
<i>Cryptomonas marsonii</i> Skuja	0	0	0	0	0	0	0	16	0	0	0
<i>Cryptomonas ovata</i> Ehr.	0	132	0	7	0	16	0	47	0	0	0
<i>Cryptomonas pyrenoidifera</i> Geitler	0	0	0	0	8	0	0	0	0	0	0
<i>Cryptomonas</i> sp	643	497	188	292	306	408	270	314	283	314	416
<b>Total</b>	<b>1.113</b>	<b>935</b>	<b>322</b>	<b>509</b>	<b>534</b>	<b>683</b>	<b>446</b>	<b>589</b>	<b>479</b>	<b>519</b>	<b>675</b>
<b>EUGLENOPHYCEAE</b>											
<i>Euglena acus</i> Ehr.	0	7	0	0	0	0	0	0	0	0	0
<i>Phacus</i> sp	0	0	0	0	0	8	0	0	0	0	0
<i>Strombomonas fluviatilis</i> (Lemm.) Defl.	0	0	0	0	0	0	0	0	0	7	0
<i>Strombomonas</i> sp	0	0	0	0	0	0	15	0	0	0	0
<i>Trachelomonas hispida</i> (Perty) Stein emend. Defl.	0	0	0	0	0	0	7	0	0	0	0
<i>Trachelomonas volvocina</i> Ehr.	0	0	24	7	0	8	22	0	24	7	16
<i>Trachelomonas volvocinopsis</i> Swir.	0	0	0	7	0	0	0	8	8	0	0
<i>Trachelomonas</i> sp	0	0	16	7	8	8	0	8	16	15	8
<b>Total</b>	<b>0</b>	<b>7</b>	<b>39</b>	<b>22</b>	<b>8</b>	<b>24</b>	<b>44</b>	<b>16</b>	<b>47</b>	<b>29</b>	<b>24</b>
<b>CHRYSOPHYCEAE</b>											
<i>Mallomonas</i> sp	0	7	0	0	16	16	0	8	24	7	0
<b>Total</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>16</b>	<b>0</b>	<b>8</b>	<b>24</b>	<b>7</b>	<b>0</b>
<b>DINOPHYCEAE</b>											
<i>Peridinium</i> sp	210	15	0	0	8	8	0	16	24	7	8
<b>Total</b>	<b>210</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>24</b>	<b>7</b>	<b>8</b>
<b>DENSIDADE TOTAL (ind./mL)</b>	<b>1.769</b>	<b>1.067</b>	<b>558</b>	<b>696</b>	<b>730</b>	<b>966</b>	<b>533</b>	<b>730</b>	<b>723</b>	<b>665</b>	<b>801</b>

Fitoplâncton - Táxons Janeiro 2018	PRB40	PRB30	PRB20	PRB50	PRB60	PRB70	PRB CEDAE	PRB80	PRB90	PRB100	PRB110
Riqueza de gêneros	24	47	50	30	61	62	34	41	42	52	47
Índice de diversidade de Shannon	2,69	2,25	3,30	2,57	2,61	2,96	1,92	2,57	2,92	2,38	1,95

Fitoplâncton - Táxons Janeiro 2018	LOU 10	LOU 20	LOU 25	LOU 30	ARE 10	ARE 20	ARE 25	ARE 30	TOC 20	TOC 10	MCO 20	MCO 10	CNL 10	CAL 20	PRT 20	ANT 10	PXE 10
<b>BACILLARIOPHYCEAE</b>																	
<i>Achnantheidium minutissimum</i> (Kütz.) Czarn.	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
<i>Anoeomoneis vitrea</i> (Grun.) Ross	0	0	0	0	0	0	0	0	0	63	0	0	28	0	73	0	0
<i>Aulacoseira ambigua</i> (Grun.) Sim. var. <i>ambigua</i>	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
<i>Aulacoseira granulata</i> (Ehr.) Sim. var. <i>granulata</i>	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	0
<i>A.</i> (Ehr.) Sim. var. <i>angustissima</i> (O.Müll.) Sim.	0	0	0	0	0	0	8	8	0	0	0	0	6	0	15	0	0
<i>Cocconeis placentula</i> Ehr. var. <i>placentula</i>	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
<i>Cyclotella stelligera</i> Cleve & Grun.	0	22	0	0	0	8	8	0	0	47	0	24	6	24	0	8	8
<i>Cymbella affinis</i> Kütz.	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	39
<i>Cymbella minuta</i> Hilse ex Rab.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
<i>Encyonema perpusillum</i> (Cl.) Mann	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eunotia</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
<i>Gomphonema parvulum</i> var. <i>lagenula</i> Freng.	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0
<i>Gomphonema parvulum</i> (Kütz.) var. <i>parvulum</i>	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
<i>Gomphonema</i> sp	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
<i>Melosira varians</i> C.A.Ag.	0	0	0	0	0	0	0	0	8	16	0	0	0	0	0	0	0
<i>Navicula aikenensis</i> Patr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0
<i>Navicula cryptotenella</i> Lange-Bert.	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	71
<i>Navicula viridula</i> (Kütz.) Ehr.	0	0	0	0	0	0	8	8	0	126	0	39	0	0	0	0	16
<i>Navicula</i> spp	0	0	0	0	0	0	8	8	0	16	0	0	0	0	0	0	8
<i>Nitzschia acicularis</i> (Kütz.) W.Sm.	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
<i>Nitzschia palea</i> (Kütz.) W.Sm.	0	0	0	0	0	0	0	0	0	39	0	0	0	8	0	0	0
<i>Rhopalodia brebissonii</i> Kram.	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
<i>Synedra delicatissima</i> W.Sm.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
<i>Synedra goulardii</i> Bréb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	8





<b>Fitoplâncton - Táxons Janeiro 2018</b>	<b>LOU 10</b>	<b>LOU 20</b>	<b>LOU 25</b>	<b>LOU 30</b>	<b>ARE 10</b>	<b>ARE 20</b>	<b>ARE 25</b>	<b>ARE 30</b>	<b>TOC 20</b>	<b>TOC 10</b>	<b>MCO 20</b>	<b>MCO 10</b>	<b>CNL 10</b>	<b>CAL 20</b>	<b>PRT 20</b>	<b>ANT 10</b>	<b>PXE 10</b>
<i>Microcystis aeruginosa</i> (Kütz.) Kütz.	0	0	0	0	0	0	24	0	71	0	634	94	0	0	0	63	0
<i>Microcystis botrys</i> Teiling	0	0	0	0	0	0	0	8	0	0	326	0	0	0	0	0	0
<i>Microcystis cf. panniformis</i> Kom.	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
<i>Oscillatoria splendida</i> Grev. ex Gom.	0	0	0	0	0	0	0	0	0	118	0	0	0	0	0	0	0
<i>Oscillatoria</i> spp	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0
<i>Planktothrix cf. agardhii</i> (Gom.) Anag. and Kom.	8	0	0	0	0	0	16	8	0	24	54	16	0	0	0	0	0
<i>Pseudanabaena mucicola</i> (Naum. & Hub.-Pest.) Bourr.	0	0	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0
<i>Pseudanabaena</i> spp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
<i>Raphidiopsis</i> sp	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0
<b>Total</b>	<b>212</b>	<b>15</b>	<b>132</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>102</b>	<b>126</b>	<b>291</b>	<b>149</b>	<b>2.737</b>	<b>322</b>	<b>39</b>	<b>31</b>	<b>0</b>	<b>86</b>	<b>24</b>

#### **CRYPTOPHYCEAE**

<i>Chroomonas acuta</i> Utermöhl	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chroomonas</i> spp	173	209	380	298	148	259	463	267	267	212	236	275	174	220	168	243	126
<i>Cryptomonas marsonii</i> Skuja	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0
<i>Cryptomonas ovata</i> Ehr.	31	22	153	0	0	8	322	0	0	0	18	55	22	0	0	16	0
<i>Cryptomonas pyrenoidifera</i> Geitler	0	0	0	0	0	0	24	8	0	0	0	0	0	0	0	0	0
<i>Cryptomonas</i> sp	283	299	716	463	198	401	793	456	377	298	372	353	247	346	219	361	173
<b>Total</b>	<b>487</b>	<b>531</b>	<b>1.300</b>	<b>762</b>	<b>346</b>	<b>668</b>	<b>1.602</b>	<b>730</b>	<b>644</b>	<b>510</b>	<b>625</b>	<b>699</b>	<b>443</b>	<b>565</b>	<b>387</b>	<b>620</b>	<b>298</b>

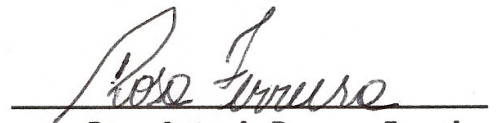
#### **EUGLENOPHYCEAE**

<i>Euglena</i> spp	0	0	0	0	0	8	8	0	0	8	0	0	0	0	0	0	0
<i>Lepocinclis ovum</i> (Ehren.) Lemm.	8	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
<i>Lepocinclis</i> sp	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
<i>Phacus agilis</i> Skuja	16	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
<i>Phacus</i> sp	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0
<i>Strombomonas fluviatilis</i> (Lemm.) Defl.	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
<i>Trachelomonas hispida</i> (Perty) Stein emend. Defl.	8	0	0	0	0	16	16	0	0	0	0	0	0	8	0	0	0
<i>Trachelomonas oblonga</i> Lemm.	16	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
<i>Trachelomonas rugulosa</i> Stein emend. Defl.	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0
<i>Trachelomonas volvocina</i> Ehr.	102	82	66	0	0	1.139	283	0	0	8	0	86	6	8	15	24	8
<i>Trachelomonas volvocinopsis</i> Swir.	8	0	15	0	0	24	0	0	0	0	0	0	0	0	0	8	0
<i>Trachelomonas</i> sp	8	7	7	0	0	8	8	0	0	8	0	8	6	8	0	0	0



Fitoplâncton - Táxons Janeiro 2018	LOU 10	LOU 20	LOU 25	LOU 30	ARE 10	ARE 20	ARE 25	ARE 30	TOC 20	TOC 10	MCO 20	MCO 10	CNL 10	CAL 20	PRT 20	ANT 10	PXE 10
<b>Total</b>	<b>165</b>	<b>90</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>1.209</b>	<b>322</b>	<b>8</b>	<b>0</b>	<b>47</b>	<b>0</b>	<b>102</b>	<b>11</b>	<b>24</b>	<b>15</b>	<b>31</b>	<b>8</b>
<b>CHRYSTOPHYCEAE</b>																	
<i>Mallomonas</i> sp	0	0	0	0	0	24	16	16	16	0	0	47	22	55	0	47	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>22</b>	<b>55</b>	<b>0</b>	<b>47</b>	<b>0</b>
<b>DINOPHYCEAE</b>																	
<i>Ceratium cf. furcoides</i> (Levander) Langhans	0	0	0	0	0	0	0	8	0	0	63	0	11	24	0	16	0
<i>Peridinium</i> sp	8	0	15	0	0	0	79	24	8	8	0	0	0	0	7	8	0
<b>Total</b>	<b>8</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>79</b>	<b>31</b>	<b>8</b>	<b>8</b>	<b>63</b>	<b>0</b>	<b>11</b>	<b>24</b>	<b>7</b>	<b>24</b>	<b>0</b>
<b>XANTHOPHYCEAE</b>																	
<i>Centritractus</i> sp	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>DENSIDADE TOTAL (ind./mL)</b>	<b>1.492</b>	<b>1.354</b>	<b>1.688</b>	<b>911</b>	<b>346</b>	<b>2.497</b>	<b>2.309</b>	<b>1.021</b>	<b>1.115</b>	<b>1.162</b>	<b>3.516</b>	<b>1.563</b>	<b>673</b>	<b>817</b>	<b>584</b>	<b>887</b>	<b>534</b>
<b>Riqueza de gêneros</b>	<b>39</b>	<b>40</b>	<b>46</b>	<b>21</b>	<b>30</b>	<b>53</b>	<b>59</b>	<b>36</b>	<b>30</b>	<b>84</b>	<b>21</b>	<b>37</b>	<b>40</b>	<b>21</b>	<b>53</b>	<b>58</b>	<b>44</b>
<b>Índice de diversidade de Shannon</b>	<b>3,22</b>	<b>2,97</b>	<b>2,80</b>	<b>1,91</b>	<b>0,99</b>	<b>3,15</b>	<b>3,10</b>	<b>2,69</b>	<b>2,86</b>	<b>3,62</b>	<b>3,15</b>	<b>3,51</b>	<b>2,99</b>	<b>2,55</b>	<b>2,44</b>	<b>2,73</b>	<b>3,05</b>

<b>CYANOPHYCEAE cél/mL</b>										
<b>PRB20</b> 0	<b>PRB30</b> 0	<b>PRB40</b> 866	<b>PRB50</b> 1.047	<b>PRB60</b> 1.571	<b>PRB70</b> 1.257	<b>PRB CEDAE</b> 292	<b>PRB80</b> 1.021	<b>PRB90</b> 1.335	<b>PRB100</b> 731	<b>PRB110</b> 0
<b>LOU10</b> 10.367	<b>LOU20</b> 748	<b>LOU25</b> 2.630	<b>LOU30</b> 1.257	<b>ARE10</b> 0	<b>ARE20</b> 0	<b>ARE25</b> 1.571	<b>ARE30</b> 2.592	<b>TOC20</b> 4.398	<b>TOC10</b> 2.984	<b>MCO20</b> 87.491
<b>MCO10</b> 4.712	<b>CNL10</b> 785	<b>CAL20</b> 628	<b>PRT20</b> 0	<b>ANT10</b> 471	<b>PXE10</b> 550					



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27/02/2018

As amostras foram coletadas e transportadas pelo interessado.  
Análises realizadas de acordo com o pedido do interessado.  
Resultados válidos para as amostras analisadas.

**Nota:**

1. Este boletim de Análises só pode ser reproduzido por inteiro, sem qualquer alteração
2. Os resultados destas análises referem-se somente as amostras analisadas.
3. Metodologia de Análise de acordo com Standard Methods for the Examination of Water and Wastewater, 21 edição, 2005