

In situ parameters, fecal coliforms, majority ions and PTE during the dry season (may, 2022).

	Coliforms	T	pH	TDS	EC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	Cl ⁻	HCO ₃ ⁻	SO ₄ ²⁻	B	Mn	Ba	Fe	Zn	F ⁻	Li	Sr	Ni	Si	Al	Cd
	CFU/ 100 ml	°C		mg/L	(μS/m)								mg/L												
NOM-127-	0	----	6.5-	1000	----	----	----	----	---	11	----	----	400	----	0.15	1.3	0.30	----	1.5	----	----	0.07	----	0.2	0.005
SSA1-2021			8.5																						
WHO 2017	0	----	7-8	1000	----	----	----	200	---	50	250*	----	250	----	0.1-0.4	2.4	0.30*	3-5	----	----	----	0.07	----	----	0.003
BC1	0	20.2	6.5	42.8	86.3	19.4	0.2	4.4	1.4	0.9	1.5	75.3	1.1	2.4	<l.c.	0.02	<l.c.	0.003	0.141	0.007	0.02	<l.c.	28.1	<l.c.	<l.c.
BC2	0	24.6	7.2	329.9	672.3	135.0	9.7	12.4	0.7	26.0	34.3	354.5	82.0	<l.c.	<l.c.	0.18	<l.c.	<l.c.	0.457	0.020	0.43	<l.c.	11.4	<l.c.	<l.c.
BC3	87	23.4	6.9	253.7	516.8	108.2	11.0	2.9	0.7	5.11	5.5	381.2	15.0	0.05	0.002	0.09	0.01	0.002	0.216	0.007	0.18	<l.c.	7.4	<l.c.	<l.c.
BC4	45	16.8	7.0	20.5	40.8	13.5	0.1	5.3	1.3	0.7	1.6	58.3	<l.c.	0.01	0.001	0.03	0.03	<l.c.	0.103	0.001	0.02	<l.c.	21.9	0.02	0.02
BC5	26	20.6	6.6	214.7	437.1	71.0	15.7	8.3	2.5	5.3	3.1	325.4	14.0	<l.c.	0.011	0.13	0.04	0.007	0.285	0.002	0.33	<l.c.	29.1	<l.c.	<l.c.
BC6	870	21.5	6.9	140.0	284.7	82.4	2.3	13.2	2.3	1.0	2.5	359.3	5.0	0.01	0.027	0.05	0.41	0.005	0.323	0.008	0.23	<l.c.	31.9	0.09	0.09
BC7	67	21.2	7.7	260.5	530.6	116.4	8.6	19.3	<l.c.	0.8	8.1	444.3	26.0	0.01	0.015	0.01	0.01	0.004	0.408	0.012	0.22	<l.c.	14.3	<l.c.	<l.c.
BC8	0	20.6	6.5	284.7	580.1	135.5	6.2	5.4	6.4	4.4	3.1	466.1	32.0	0.01	<l.c.	0.03	<l.c.	0.017	0.425	0.014	0.32	<l.c.	7.1	<l.c.	<l.c.
BC9	27	17.5	7.2	184.2	375.0	112.0	5.3	3.3	0.6	0.6	2.2	273.1	51.0	0.03	0.002	0.04	0.01	0.012	0.192	0.012	0.23	<l.c.	8.3	<l.c.	<l.c.
BC10	45	23.3	7.9	144.3	293.4	81.0	1.4	7.9	<l.c.	9.6	1.7	279.2	3.0	0.21	<l.c.	0.03	<l.c.	<l.c.	0.126	0.001	0.06	<l.c.	5.7	<l.c.	<l.c.
BC11	28	23.5	6.6	282.1	574.8	138.0	10.3	6.4	<l.c.	1.0	2.1	519.5	12.2	<l.c.	0.001	0.05	0.01	0.007	0.366	0.013	0.58	<l.c.	14.6	<l.c.	<l.c.
BC12	310	25.4	7.0	223.2	454.6	101.1	6.1	1.5	<l.c.	3.8	2.2	299.0	5.6	<l.c.	0.001	0.05	<l.c.	0.009	0.170	0.003	0.13	<l.c.	9.3	<l.c.	<l.c.
BC13	870	20.6	6.08	57.9	116.2	41.0	0.3	12.0	0.9	8.7	4.4	121.4	9.3	<l.c.	<l.c.	0.01	0.01	<l.c.	0.119	0.005	0.02	<l.c.	24.3	0.04	<l.c.
BC14	13	21.9	6.2	81.4	165.1	28.5	9.0	8.0	0.9	6.3	1.5	157.8	1.9	0.01	<l.c.	0.01	<l.c.	0.003	0.090	0.010	0.13	<l.c.	42.1	<l.c.	<l.c.
BC15	22	26.0	7.3	287.8	586.3	130.5	12.4	6.6	<l.c.	21.6	2.0	430.4	47.9	<l.c.	<l.c.	0.03	<l.c.	<l.c.	0.249	0.017	0.46	<l.c.	12.4	<l.c.	<l.c.
BC16	16	24.5	7.1	135.1	247.7	59.9	1.0	14.3	0.6	2.0	2.2	233.1	8.4	<l.c.	<l.c.	0.01	<l.c.	0.004	0.209	0.029	0.13	<l.c.	33.0	<l.c.	<l.c.
BC17	39	24.2	7.1	478.0	974.0	164.1	14.7	29.3	3.3	0.56	36.5	291.3	241.7	0.01	0.115	0.02	0.003	0.823	0.467	0.069	0.41	0.010	11.6	<l.c.	0.012
BC18	19	28.1	6.7	632.1	1289	239.4	55.9	17.9	1.8	9.2	19.7	341.5	574.5	0.12	0.001	0.02	0.004	0.014	0.546	0.063	2.30	<l.c.	10.1	<l.c.	<l.c.
BC19	2300	26.6	6.8	271.4	552.8	103.1	24.2	1.1	<l.c.	1.8	1.2	439.6	2.6	0.10	<l.c.	0.02	<l.c.	<l.c.	0.076	0.001	0.12	<l.c.	4.5	<l.c.	<l.c.
BC20	20	26.6	6.9	291.9	594.7	105.9	15.2	18.9	1.1	2.5	7.9	360.6	44.8	<l.c.	0.002	0.02	<l.c.	<l.c.	0.208	0.002	0.56	<l.c.	28.5	<l.c.	<l.c.
Min	0	16.8	6.08	20.52	40.86	13.50	0.14	1.1	0.6	0.56	1.2	58.26	1.1	0.01	0.001	0.01	0.003	0.002	0.07	0.001	0.024	0.010	4.50	0.023	0.012
Max	2300	28.1	7.91	632.1	1289	239.4	55.9	29.3	6.40	26.0	36.5	519.5	574.5	2.4	0.115	0.18	0.410	0.823	0.54	0.069	2.306	0.010	42.10	0.094	0.012
Mean	240.2	22.8	6.90	230.8	468.6	99.29	10.4	9.92	1.75	5.62	7.16	310.5	58.90	0.24	0.016	0.04	0.055	0.070	0.25	0.014	0.349	0.010	17.76	0.055	0.012

*Recommendations of WHO 2017. <l.c: Below the quantification limit. BC3 and BC12 springs are intended for recreational purposes

In situ parameters, fecal coliforms, majority ions and PTE during the rainy season (august, 2022).

	Coliforms	T	pH	TDS	EC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	Cl ⁻	HCO ₃ ⁻	SO ₄ ²⁻	B	Mn	Ba	Fe	Z	F ⁻	Li	Sr	Ni	Si	Al	Cd
	CFU/ 100 ml	°C		mg/L	(μS/m)								mg/L												
NOM-127-	----	6.5-	1000	----	----	----	----	----	---	11	----	----	400	----	0.15	1.3	0.30	----	1.5	----	----	0.07	----	0.2	0.005
SSA1-2021		8.5																							
WHO 2017	----	7.8	1000	----	----	----	200	---	50	250*	----	250	----	----	2.4	0.03*	3-5	----	----	----	----	0.07	----	----	0.003
BC1	7	19.8	6.5	47	95.0	13.0	0.2	8.5	2.9	0.3	0.4	72.8	0.3	<l.c.	<l.c.	0.02	<l.c.	0.008	<l.c.	0.008	0.030	0.013	31.0	<l.c.	<l.c.
BC2	20	22	6.6	1.2	40.03	133.6	9.3	24.6	1.4	42.1	36.6	325.3	69.1	0.06	<l.c.	0.18	<l.c.	0.004	0.348	0.022	0.470	0.006	13.1	<l.c.	<l.c.
BC3	288	23.4	6.6	265.3	540.4	114.6	7.5	3.0	0.8	7.5	2.3	410.7	11.3	<l.c.	<l.c.	0.04	<l.c.	<l.c.	0.076	0.002	0.136	<l.c.	6.7	<l.c.	<l.c.
BC4	10	16.8	7.0	24.45	48.8	13.6	0.2	5.8	2.7	0.2	0.3	55.6	0.4	<l.c.	0.001	0.03	0.05	<l.c.	<l.c.	0.001	0.029	0.010	23.3	0.023	0.02
BC5	103	20.7	6.4	230.8	470.0	72.0	12.3	14.9	5.3	1.4	2.0	339.9	11.6	<l.c.	0.06	0.11	0.12	<l.c.	0.118	0.002	0.324	0.011	26.0	<l.c.	<l.c.
BC6	400	20.5	6.1	167.1	334.9	82.9	7.6	25.7	4.1	3.0	3.3	351.0	32.4	<l.c.	0.07	0.06	0.96	0.008	0.134	0.007	0.223	0.013	31.2	0.094	0.09
BC7	400	19.7	7.5	588.6	1200	119.7	10.3	34.8	0.8	5.3	25.7	468.6	34.9	<l.c.	0.02	0.01	0.01	<l.c.	0.291	0.015	0.287	0.007	16.0	<l.c.	<l.c.
BC8	10	20.4	6.4	330.5	673.5	134.2	5.9	2.6	0.7	5.0	1.6	434.6	30.8	0.02	0.001	0.03	<l.c.	0.27	0.349	0.015	0.344	<l.c.	7.4	<l.c.	<l.c.
BC9	520	16.4	7.1	197.1	401.3	73.7	4.4	3.0	1.2	1.5	0.8	216.1	37.1	0.09	0.001	0.04	0.01	0.008	0.067	0.008	0.233	<l.c.	8.8	<l.c.	<l.c.
BC10	3	24.7	7.5	175.6	357.4	97.5	1.3	2.0	0.6	12.4	1.2	315.6	6.5	<l.c.	<l.c.	0.03	<l.c.	0.008	<l.c.	0.001	0.076	<l.c.	6.0	<l.c.	<l.c.
BC11	30	24.4	6.7	303.8	619.1	144.0	6.2	6.1	0.04	0.7	0.4	517.1	10.8	<l.c.	0.001	0.05	<l.c.	0.004	0.379	0.013	0.576	0.006	15.0	<l.c.	<l.c.
BC12	160	23.7	6.6	277.0	564.3	123.5	6.4	6.8	1.0	4.2	1.0	461.3	4.5	<l.c.	0.001	0.05	<l.c.	0.006	0.079	0.003	0.157	0.005	10.8	<l.c.	<l.c.
BC13	360	21.7	6.1	94.0	188.0	10.2	1.3	22.3	3.2	22.3	4.4	55.8	18.3	<l.c.	0.001	0.03	0.01	0.01	<l.c.	0.004	0.070	0.009	22.3	0.048	<l.c.
BC14	10	22	7.1	93.7	190.1	16.7	8.0	13.9	1.9	5.5	1.0	136.0	2.0	<l.c.	<l.c.	0.01	<l.c.	<l.c.	0.074	0.010	0.144	0.017	44.0	<l.c.	<l.c.
BC15	360	22	6.6	354.0	721.4	121.6	12.4	12.2	0.4	18.4	1.0	410.3	42.4	<l.c.	<l.c.	0.03	<l.c.	0.004	0.216	0.018	0.511	0.005	13.8	<l.c.	<l.c.
BC16	40	21.4	7.0	168.9	343.7	56.2	0.9	25.3	1.1	2.2	3.2	245.2	10.1	<l.c.	<l.c.	0.01	<l.c.	<l.c.	0.148	0.032	0.152	0.013	35.9	<l.c.	<l.c.
BC17	30	23.1	7.0	472.0	949.0	133.9	15.0	53.4	7.9	2.1	31.6	327.8	210.0	0.13	0.001	0.01	<l.c.	0.10	0.490	0.075	0.401	0.009	12.4	<l.c.	0.012
BC18	640	23.1	6.6	649.0	136.0	229.5	59.6	19.2	2.1	5.1	21.0	395.7	570.6	0.09	0.02	0.02	0.07	0.01	0.472	0.055	2.205	0.005	11.0	<l.c.	<l.c.
BC19	120	23.8	7.2	257.0	514.0	105.1	15.8	0.9	0.2	1.2	0.5	429.7	3.5	<l.c.	<l.c.	0.02	<l.c.	0.007	0.065	0.001	0.072	<l.c.	4.2	<l.c.	<l.c.
BC20	600	24.0	6.8	443.0	886.0	162.4	16.7	16.2	2.5	18.7	39.5	362.4	93.3	<l.c.	0.15	0.08	0.01	0.004	0.268	0.001	0.879	0.009	24.2	<l.c.	<l.c.
Min	3	16.4	6.1	1.2	40.03	10.2	0.2	0.9	0.04	0.2	0.3	55.6	0.3	0.02	0.001	0.01	0.01	0.004	0.065	0.001	0.029	0.005	4.2	0.023	0.012
Max	640	24.7	7.5	649.0	1200	229.5	59.6	53.4	7.9	42.1	39.5	517.1	570.6	0.13	0.15	0.18	0.96	0.273	0.490	0.075	2.205	0.017	44	0.094	0.012
Mean	205.55	21.6	6.7	257.0	463.6	97.9	10.1	15.1	2.0	7.9	8.9	316.6	69.9	0.08	0.02	0.04	0.15	0.03	0.223	0.015	0.366	0.009	18.1	0.05	0.012

* Recommendations of WHO 2017. <l.c.: Below the quantification limit. BC3 and BC12 springs are intended for recreational purposes.