



**LAGUNA AAAWATER CORPORATION**  
**TECHNICAL OPERATIONS DEPARTMENT**  
**LABORATORY SERVICES SECTION**  
**CHEMICAL ANALYSIS OF SAMPLES FROM SOURCE AND CONSUMER'S TAPS - PROVINCE OF LAGUNA**

CITY/MUNICIPALITY : STA. ROSA	MONTH : AUGUST	YEAR 2019
DOH ACCREDITATION NO : 04A-001-1820-LW-2	VALIDITY : December 31, 2020	DOCUMENT NO TR-19-3249

NO	SAMPLE LOCATION		DATE COLLECTED	SAMPLE CODE	PHYSICAL/ CHEMICAL PARAMETERS																							
	ADDRESS	TYPE			*pH <sup>1</sup>	*Residual Chlorine <sup>2</sup> (mg/L)	Color <sup>3</sup> (ACU)	Turbidity <sup>4</sup> (NTU)	Odor <sup>5</sup>	Taste <sup>6</sup>	TDS <sup>7</sup> (mg/L)	Total Hardness <sup>8</sup> (mg/L)	Fluoride <sup>9</sup> (mg/L)	Chloride <sup>9</sup> (mg/L)	Nitrate <sup>9</sup> (mg/L)	Sulfate <sup>9</sup> (mg/L)	Chromium <sup>10</sup> (mg/L)	Manganese <sup>10</sup> (mg/L)	Iron <sup>10</sup> (mg/L)	Copper <sup>10</sup> (mg/L)	Zinc <sup>10</sup> (mg/L)	Arsenic <sup>10</sup> (mg/L)	Cadmium <sup>10</sup> (mg/L)	Lead <sup>10</sup> (mg/L)				
<b>BRGY. CAINGIN</b>																												
1	Water Pump, Block 57, Phase 1, Southville	S	19-Aug	S19-4307	7.55	0.72	< 2	0.25	UO	UO	330	149	0.450	8.38	2.44	8.49	0.00138	0.000266	0.0667	0.000304	0.000130	0.00342	0.0000188	0.000124				
2	Block 25 Lot 7, Phase 3, Southville	CT	19-Aug	S19-4308	7.51	0.55	< 2	0.45	UO	UO	317	162	0.432	8.31	2.28	4.77	0.00168	0.00126	0.0720	0.000330	0.00246	0.00350	0.0000183	0.000198				
<b>BRGY. KANLURAN</b>																												
3	#621 Rizal Boulevard	CT	19-Aug	S19-4302	7.25	0.70	< 2	0.20	UO	UO	363	145	0.423	12.8	< 1.14	8.01	< 0.0000445	0.000654	0.0611	0.000287	< 0.000151	0.00188	< 0.0000149	0.000117				
4	Block 18 Lot 2, Alfonso Homes I	CT	19-Aug	S19-4304	7.37	0.45	< 2	0.15	UO	UO	353	161	0.422	12.8	< 1.14	9.60	0.0000821	0.000844	0.0664	0.000369	0.00153	0.00197	0.0000216	0.000189				
<b>BRGY. MACABLING</b>																												
5	Water Pump, Buena Rosa 9 Subdivision	S	7-Aug	S19-4097	7.28	0.75	< 2	0.25	UO	UO	457	271	0.454	38.4	< 1.14	29.6	0.000216	< 0.000222	0.0625	0.000578	0.00146	0.000741	0.0000223	0.000368				
6	Water Pump, Corinthian Subdivision	S	7-Aug	S19-4099	7.16	0.45	< 2	< 0.13	UO	UO	417	208	0.440	19.3	< 1.14	< 0.669	0.000507	< 0.000222	0.0231	0.000520	0.000284	0.00311	0.0000768	0.000863				
7	Block 11 Lot 19, Corinthian Subdivision	CT	7-Aug	S19-4100	7.19	0.36	< 2	0.15	UO	UO	387	206	0.450	17.5	< 1.14	17.1	0.000441	< 0.000222	0.0413	0.00283	< 0.0000079	0.00374	0.0000161	0.000800				
8	Block 9 Lot 5 Phase I, Buena Rosa 9 Subdivision	CT	7-Aug	S19-4098	7.14	0.48	< 2	0.45	UO	UO	410	264	0.452	22.0	< 1.14	17.8	0.000221	0.00152	0.0313	0.000532	0.000486	0.000234	0.0000779	0.000474				
<b>BRGY. MALUSAK</b>																												
9	Drinking Fountain 1, Central 1 Elementary School	CT	19-Aug	S19-4311	7.21	0.98	< 2	0.15	UO	UO	320	168	0.372	8.26	2.36	9.28	0.00114	0.000615	0.0623	0.000653	0.00436	0.00340	0.0000251	0.000300				
10	Santa Rosa City Hall, J.P. Rizal Boulevard	CT	19-Aug	S19-4303	7.23	0.85	< 2	0.15	UO	UO	380	155	0.428	12.8	< 1.14	9.63	0.000192	0.000657	0.0587	0.000295	0.000603	0.00187	0.0000219	0.000274				
<b>BRGY. MARKET AREA</b>																												
11	Water Pump, Market Area	S	19-Aug	S19-4301	7.63	1.38	< 2	< 0.13	UO	UO	367	145	0.423	12.8	< 1.14	9.67	< 0.0000445	< 0.0000641	< 0.00261	< 0.0000450	< 0.000153	< 0.0000254	0.0000602	0.000333				
<b>BRGY. POOC</b>																												
12	Water Pump Alinsod	S	19-Aug	S19-4310	7.55	1.05	< 2	0.15	UO	UO	303	154	0.395	6.26	1.85	8.19	0.00150	0.000292	0.0690	0.000564	0.00304	0.00356	0.0000303	0.000254				
13	Blk 46 Lot 2 Phase III, Southville	CT	19-Aug	S19-4309	7.53	0.47	< 2	0.15	UO	UO	320	154	0.353	8.05	2.28	9.03	0.000138	0.000547	0.0686	0.000400	0.00236	0.00343	0.0000309	0.000292				
14	Blk 2 Lot 1, Villa Mercedes Subdivision	CT	19-Aug	S19-4306	7.63	0.31	< 2	0.15	UO	UO	433	224	0.469	32.0	< 1.14	22.0	0.000185	< 0.0000641	0.0735	0.000682	0.000750	0.000700	0.0000313	< 0.0000071				
15	Water Pump, Villa Mercedes Subdivision	S	19-Aug	S19-4305	7.62	0.32	< 2	0.15	UO	UO	437	210	0.473	32.0	< 1.14	22.0	0.000354	0.000212	0.105	0.000532	0.00177	0.000723	0.0000326	0.000208				
<b>BRGY. SINALHAN</b>																												
16	Water Pump, 4026, Sinalhan Road, Purok 2	S	19-Aug	S19-4298	7.55	0.90	< 2	0.35	UO	UO	343	143	0.448	8.23	2.51	10.7	0.00109	0.000308	0.0529	0.000216	0.00047	0.00332	< 0.0000149	< 0.00000771				
17	Amoranto Compound, Phase 2, Sinalhan	CT	19-Aug	S19-4299	7.55	0.81	< 2	0.15	UO	UO	350	152	0.442	12.8	< 1.14	9.67	< 0.0000445	< 0.0000641	< 0.00261	< 0.0000450	0.0000742	< 0.0000254	0.000558	0.000311				
<b>BRGY. TAGAPO</b>																												
18	Water Pump, Rosewood Homes I	S	7-Aug	S19-4094	7.38	1.08	< 2	0.3	UO	UO	460	260	0.432	25.7	< 1.14	12.0	0.000157	< 0.000222	0.0236	0.000223	< 0.0000079	0.000768	< 0.00000150	< 0.00000170				
19	Block 3 Lot 31, Rosewood Homes I	CT	7-Aug	S19-4095	7.42	1.1	< 2	0.2	UO	UO	413	245	0.426	25.6	< 1.14	11.9	0.000162	< 0.000222	0.0253	0.000211	< 0.0000079	0.000791	< 0.00000150	< 0.00000170				
20	Block 4 Lot 11, Rosewood Homes II	CT	7-Aug	S19-4096	7.38	1.09	< 2	0.15	UO	UO	420	237	0.426	25.7	< 1.14	11.8	0.000200	< 0.000222	0.0264	0.000368	0.000657	0.000831	0.000225	0.00132				
21	#31 JP Rizal Boulevard	CT	7-Aug	S19-4084	7.42	0.97	< 2	0.3	UO	UO	357	205	0.448	20.2	< 1.14	10.9	0.000201	< 0.000222	0.0252	0.000276	< 0.0000079	0.00141	< 0.00000150	< 0.00000170				
22	Water Pump, Buena Rosa X Subdivision	S	7-Aug	S19-4086	7.32	0.87	< 2	0.4	UO	UO	333	246	0.496	11.6	< 1.14	6.40	0.000187	< 0.000222	0.0488	0.000510	0.0000236	0.000706	0.0000152	0.000909				
23	Block 3 Lot 5 Buena Rosa I Subdivision	CT	7-Aug	S19-4085	7.38	0.14	5	0.45	UO	UO	347	233	0.473	8.97	< 1.14	7.05	0.000110	0.000444	0.0244	0.000703	< 0.0000079	0.00222	< 0.00000150	0.00000440				
24	Block 1 Lot 64, Buena Rosa 10 Subdivision	CT	7-Aug	S19-4087	7.39	0.94	< 2	0.3	UO	UO	347	261	0.480	12.0	< 1.14	6.83	0.000119	< 0.000222	0.0278	0.000370	0.000259	0.000710	0.000118	0.000170				
25	Cistern Tank, SM Sta. Rosa	CT	7-Aug	S19-4088	7.43	0.71	< 2	0.3	UO	UO	303	149	0.438	6.40	1.64	6.33	0.000212	0.000369	0.0425	0.00572	0.000273	0.000393	0.00000490	0.000170				
26	Admin Pantry, SM Sta. Rosa	CT	7-Aug	S19-4089	7.34	0.8	< 2	0.35	UO	UO	320	154	0.379	6.12	1.69	6.21	0.000144	< 0.000222	0.0367	0.00202	0.0000294	0.00348	< 0.00000150	0.0000399				
27	Hog Me, Robinson's Mall	CT	7-Aug	S19-4091	7.62	0.45	< 2	1	UO	UO	323	153	0.459	7.26	< 1.14	6.99	0.00206	0.0545	0.164	0.00154	0.0209	0.00198	0.000132	0.00139				
28	Cistern Tank, Robinson's Mall	CT	7-Aug	S19-4090	7.62	0.66	5	0.95	UO	UO	330	155	0.402	6.98	< 1.14	6.48	0.000112	< 0.000222	0.0225	0.000334	0.0000196	0.00346	0.00000670	0.0000306				
<b>TOTAL SAMPLES ANALYZED</b>					28	<b>PNSDW LIMIT (MAL)</b>			6.5 – 8.5	0.30 – 1.50	10	5	UO	UO	600	300	1.50	250	50	250	0.05	0.4	1.0	1.0	5.0	0.01	0.003	0.01

REMARKS: Samples analyzed as submitted  
 LEGEND: S - Source, CT - Consumer's Tap, MAL - Maximum Allowable Limit, NT - Not Tested, NTU - Nephelometric Turbidity Unit, UO - Unobjectionable, NFT - Not Fit to Taste, ACU - Apparent Color Unit, nsl - no set limit, \* - tested on-site, < - less than detection limit  
 METHODS USED: <sup>1</sup>4500-H+. Electrometric, <sup>2</sup>4500-CI-G.DPD Colorimetric, <sup>3</sup>2120B. Visual Comparison (Pt-Co), <sup>4</sup>2130. Nephelometric, <sup>5</sup>2150. Sensory, <sup>6</sup>2160. Sensory, <sup>7</sup>2540C. Total Dissolved Solids (TDS) dried @ 180°C, <sup>8</sup>2340C. EDTA Titrimetric, <sup>9</sup>4110B. Ion Chromatography, <sup>10</sup>3125. Metals by Inductively-Coupled Plasma - Mass Spectrometer (ICP-MS)

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