

Table S1. Average of 2 values, characteristics of the influents and effluents of the systems and the criteria values for the different uses.

Sample	pH	CE	LOG CF	DO	TS	TVS	
		$\mu\text{S/cm}$	UFC/mL		mg/L		
Sample 1 URBAN AFFLUENT	7.4	761	1.82	3	562	213	
Sample 2 URBAN AFFLUENT	7.5	728	1.73	3	621	295	
Sample 3 URBAN AFFLUENT	7.4	715	1.54	3	674	310	
Sample 4 URBAN AFFLUENT	7.6	713	1.65	2	595	279	
Sample 1 AERATED LAGOON EFFLUENT	7.1	774	1.68	8	543	263	
Sample 2 AERATED LAGOON EFFLUENT	7.4	754	1.52	22	543	227	
Sample 3 AERATED LAGOON EFFLUENT	7.2	759	1.62	21	483	151	
Sample 4 AERATED LAGOON EFFLUENT	7.6	757	1.60	11	505	166	
Sample 1 SEMI URBAN AFFLUENT	7.2	1580	2.32	47	1127	431	
Sample 2 SEMI URBAN AFFLUENT	7.3	1742	2.20	41	1300	365	
Sample 3 SEMI URBAN AFFLUENT	7.2	1523	0.90	48	1163	544	
Sample 1 STABILIZATION LAGOON EFFLUENT	7.8	1710	1.04	3	1193	386	
Sample 2 STABILIZATION LAGOON EFFLUENT	8.4	1656	1.70	10	1104	372	
Sample 3 STABILIZATION LAGOON EFFLUENT	7.8	1723	1.60	2	441	6.2	
<i>River</i>	6.5-8*	NC+*	N.C.+*	5*	N.C.+*	N.C.+*	
<i>Irrigation</i>	6-9+	1000+*	2*	N.A.+*	N.C.+*	N.C.+*	
Sample	F ⁻	Cl ⁻	NO ₂ ⁻	NO ₃ ⁻	P-PO ₄ ³⁻	SO ₄ ²⁻	NH ₃
	mg/L						
Sample 1 URBAN AFFLUENT	2.9	761	0.0	0.0	8	131	0.403
Sample 2 URBAN AFFLUENT	2.9	728	0.0	0.6	10	50	0.551
Sample 3 URBAN AFFLUENT	2.7	715	0.0	0.7	8	52	0.388
Sample 4 URBAN AFFLUENT	3.5	713	2.0	0.0	9	47	0.681
Sample 1 AERATED LAGOON EFFLUENT	3.1	774	0.2	0.0	7	138	0.171
Sample 2 AERATED LAGOON EFFLUENT	3.2	754	0.0	0.5	10	46	0.316
Sample 3 AERATED LAGOON EFFLUENT	2.7	759	0.4	0.6	9	72	0.189
Sample 4 AERATED LAGOON EFFLUENT	3.2	757	0.7	0.0	9	49	0.412
Sample 1 SEMI URBAN AFFLUENT	6.8	1580	0.9	0.2	41	51	0.536
Sample 2 SEMI URBAN AFFLUENT	6.0	1742	0.0	0.0	30	52	0.648
Sample 3 SEMI URBAN AFFLUENT	5.6	1523	0.9	1.0	36	42	0.572
Sample 1 STABILIZATION LAGOON EFFLUENT	6.4	1710	0.0	0.2	48	80	1.073
Sample 2 STABILIZATION LAGOON EFFLUENT	5.2	1656	0.2	0.5	31	78	4.236
Sample 3 STABILIZATION LAGOON EFFLUENT	6.2	1723	0.5	0.5	43	88	1.382
<i>River</i>	1*	250*	0.3*	90*	0.1*	0.005*	0.06*
<i>Irrigation</i>	1*	147*	N.C.+*	N.C.*	N.C.*	130*	N.C.*

N.C. = not contemplated within the mexican regulations, but know to alter water quality; N.A.=Not apply

+ Referred in the Mexican Official Norm NOM-001; *Referred in the Ecological Criteria of water quality.

Table S2. Average of 2 values of percent resistance of FCs of affluent to antibiotics between communities. CFU of FC/mL values are the total amount of Faecal coliforms in the samples, These were cultured without any antibiotic.

	CFU of FC/mL	AMP	AMX	SXT	AMK	GEN	CFM	MULTI	✱
% RESISTANCE URBAN COMMUNITY									
SAMPLE 1	665000	17	11	8	0	0	3	0	5.6
SAMPLE1	535000	19	19	6	0	0	19	0	9.0
SAMPLE 2	350000	65	34	39	0.1	0.1	6	0.1	20.6
SAMPLE 2	450000	37	33	50	0.1	0.1	9	0.1	18.5
SAMPLE 3	405000	24	19	20	0.1	3.1	6	0	10.3
SAMPLE 3	350000	29	40	50	0.1	4.3	26	0	21.3
SAMPLE 4	410000	17	17	11	0.1	1.2	5	0	7.3
SAMPLE 4	550000	16	16	20	0	1.3	4	0	8.2
✱	464375	28	24	26	0.06	1.3	10	0.025	12.8
± STANDAR DEV	110468	17	10	18	0	2	8	0	6
% RESISTANCE SEMI-URBAN COMMUNITY									
SAMPLE 1	465000	20	22	21	0	0	2	0	9.3
SAMPLE1	1050000	15	10	20	0	0	2	0	6.7
SAMPLE 2	480000	18	11	19	0	1	3	0	7.4
SAMPLE 2	410000	13	13	20	0	1	3	0	7.1
SAMPLE 3	345000	23	31	23	0	3	2	0	11.7
SAMPLE 3	325000	14	29	25	0	3	3	0	10.6
✱	512500	17	19	21	0	1	3	0	8.7
± STANDAR DEV	21369	24	16	2	0	0	19	0	8

Table S3. Average of 2 values of percent of antibiotic-resistant FCs between the effluents by types of WTP's. CFU of FC/mL values are the total amount of Faecal coliforms in the samples, These were cultured without any antibiotic.

	CFU of FC/ mL	AMP	AMX	SXT	AMK	GEN	CFM	MULT	✱
% RESISTANCE AERATED LAGOON									
SAMPLE 1	20800	15	16	4	0.1	1.1	6.8	0	6.1
SAMPLE1	15800	18	19	5	0.1	4.9	8.6	0	7.9
SAMPLE 2	800	13	13	75	0	1.3	2.5	0.1	15.0
SAMPLE 2	1100	18	0	36	0	0	5.5	0	8.5
SAMPLE 3	450	22	0	13	0.4	0	2.2	0	5.4
SAMPLE 3	400	0	0	13	0	0	2.5	0	2.2
SAMPLE 4	45000	25	20	16	0.1	2.5	4.9	0	9.8
SAMPLE 4	43000	52	34	19	0.1	4.4	9.4	0.1	17.0
✱	15918	20	13	22	0.1	1.8	5.3	0	8.9
± STANDAR DEV	19016	15	12	23	0	2	3	0	5
% RESISTANCE STABILIZATION LAGOON									
SAMPLE 1	39000	97	72	2	0	0.1	41.5	0	30.4
SAMPLE1	38500	95	60	2	0	0.1	40	0	28.2
SAMPLE 2	19025	65	43	0	0	0	37.3	0	20.8
SAMPLE 2	17000	58	50	1	0	0	32	0	20.1
SAMPLE 3	64750	47	34	4	0	0.1	2.5	0	12.5
SAMPLE 3	66500	39	28	4	0	0.5	1.5	0	10.4
✱	40795	67	48	2	0	0.1	25.8	0	20.4
± STANDAR DEV	21369	24	16	2	0	0	19	0	8