

Table S1. The soil physiochemical properties of the control and six soil treatments before and after growing the two crop species (carrot and lettuce) with irrigation of wastewater with 3 µg/L (IW3) and 30 µg/L (IW30) antibiotics (n=3).

Treatment	pH	Conductivity (mS/cm)	Water holding capacity (%)	TOC (%)	Available Ca (mg/kg)	Available Mg (mg/kg)	Available Na (mg/kg)
Before							
Control	5.3	3.8	56.0	32.0	40.5	27.3	89.4
SL-BC(5%)	5.3	4.0	62.0	36.4	43.7	30.1	124.7
SL-BC(10%)	5.3	4.2	59.0	37.5	51.5	44.9	131.6
SL-BC(20%)	5.5	5.2	58.0	34.8	70.1	47.7	138.3
SL-CMHR-BC(5%)	5.6	5.3	63.0	33.6	55.1	38.5	119.9
SL-CMHR-BC(10%)	5.7	5.5	59.0	36.4	62.5	49.8	135.0
SL-CMHR-BC(20%)	5.8	6.6	58.0	38.4	84.3	53.4	144.0
After - Carrot (I3)							
Control	4.6	0.4	54.0	33.8	16.5	5.4	56.5
SL-BC(5%)	4.8	1.2	68.0	35.6	25.5	24.6	86.5
SL-BC(10%)	4.7	1.4	50.0	35.5	36.4	12.7	66.5
SL-BC(20%)	4.6	1.4	58.0	40.2	20.7	8.5	86.5
SL-CMHR-BC(5%)	4.6	2.3	62.0	33.7	18.3	16.5	15.5
SL-CMHR-BC(10%)	4.5	2.4	46.0	36.0	36.5	8.5	26.5
SL-CMHR-BC(20%)	4.5	2.5	52.0	33.4	55.5	6.4	26.5
After - Lettuce (I3)							
Control	4.8	1.3	45.0	35.5	33.6	16.7	29.0
SL-BC(5%)	5.0	3.3	60.0	39.0	22.7	20.6	35.7
SL-BC(10%)	4.9	3.5	55.0	38.9	22.5	18.7	45.2
SL-BC(20%)	4.9	2.3	50.0	38.6	36.4	18.6	39.5
SL-CMHR-BC(5%)	5.3	2.7	65.0	37.2	15.7	17.6	29.8
SL-CMHR-BC(10%)	5.1	3.1	55.0	39.4	24.6	8.5	36.5
SL-CMHR-BC(20%)	5.2	3.5	55.0	39.0	40.7	3.7	29.4
After - Carrot (I30)							
Control	4.5	2.6	64.0	33.3	12.7	5.7	36.5
SL-BC(5%)	4.9	3.5	58.0	35.0	28.4	3.6	36.5
SL-BC(10%)	4.6	3.7	52.0	37.5	22.5	5.5	40.5
SL-BC(20%)	4.6	3.5	54.0	35.4	19.5	4.7	25.7
SL-CMHR-BC(5%)	4.6	3.4	64.0	34.8	36.5	4.7	18.6
SL-CMHR-BC(10%)	4.6	3.4	62.0	36.8	25.5	10.7	29.6
SL-CMHR-BC(20%)	4.5	3.8	54.0	34.4	15.7	5.7	34.0
After - Lettuce (I30)							
Control	4.9	2.6	45.0	37.5	33.6	5.6	36.4
SL-BC(5%)	4.7	3.5	70.0	37.9	22.7	4.7	29.9
SL-BC(10%)	4.6	3.4	60.0	39.3	28.0	6.3	27.7
SL-BC(20%)	4.7	3.5	60.0	40.9	19.7	4.7	18.5
SL-CMHR-BC(5%)	4.7	3.4	75.0	38.4	18.6	8.9	16.9
SL-CMHR-BC(10%)	4.8	3.4	60.0	38.6	14.7	11.0	29.5
SL-CMHR-BC(20%)	4.9	3.7	55.0	39.8	12.7	4.7	20.0

Table S1 (Continued)

Treatment	Total N (g/kg)	Total P (g/kg)	Total K (g/kg)	Available N (mg/kg)	Available P (mg/kg)	Available K (mg/kg)
Before						
Control	124	189	150	50.2	74.9	20.7
SL-BC(5%)	135	225	327	60.3	84.5	109.0
SL-BC(10%)	159	270	462	77.9	91.2	154.1
SL-BC(20%)	180	340	409	127.2	94.8	169.6
SL-CMHR-BC(5%)	142	275	302	107.7	93.3	100.7
SL-CMHR-BC(10%)	163	305	481	130.9	129.2	160.3
SL-CMHR-BC(20%)	292	360	525	185.9	213.2	241.6
After - Carrot (I3)						
Control	109	110	80	15.3	22.5	4.6
SL-BC(5%)	104	102	170	37.8	51.2	25.9
SL-BC(10%)	120	105	240	22.2	24.5	9.6
SL-BC(20%)	168	95	200	73.8	73.3	39.4
SL-CMHR-BC(5%)	107	151	170	58.9	52.7	32.8
SL-CMHR-BC(10%)	98	170	250	49.6	28.6	89.6
SL-CMHR-BC(20%)	207	201	240	41.3	28.5	67.6
After - Lettuce (I3)						
Control	98	94	86	25.3	54.0	11.6
SL-BC(5%)	105	144	148	42.5	47.2	60.6
SL-BC(10%)	123	205	145	55.9	69.6	81.4
SL-BC(20%)	104	251	157	82.6	72.2	97.7
SL-CMHR-BC(5%)	120	233	129	57.7	67.4	64.9
SL-CMHR-BC(10%)	119	253	134	69.3	64.4	74.9
SL-CMHR-BC(20%)	205	308	337	86.2	57.3	53.5
After - Carrot (I30)						
Control	107	110	110	26.2	12.2	8.0
SL-BC(5%)	113	130	160	28.9	41.7	16.9
SL-BC(10%)	99	210	170	72.9	59.1	24.6
SL-BC(20%)	118	99	170	114.9	74.0	22.5
SL-CMHR-BC(5%)	124	210	240	19.0	22.6	59.7
SL-CMHR-BC(10%)	126	210	240	61.4	38.9	54.8
SL-CMHR-BC(20%)	206	250	380	64.4	99.1	36.8
After - Lettuce (I30)						
Control	100	113	75	16.5	25.3	8.2
SL-BC(5%)	89	163	174	45.6	54.1	72.2
SL-BC(10%)	99	137	139	38.2	41.9	55.7
SL-BC(20%)	101	233	164	73.1	59.4	81.2
SL-CMHR-BC(5%)	113	215	207	53.1	67.2	15.3
SL-CMHR-BC(10%)	118	263	220	74.4	69.3	67.0
SL-CMHR-BC(20%)	199	283	439	68.5	61.9	88.3

Table S2 Initial nutrient content of soils amended with chicken manure and food waste compost and in different proportions.

Treatment	Available N (mg/kg)	Available P (mg/kg)	Available K (mg/kg)	Total N (g/kg)	Total P (g/kg)	Total K (g/kg)
Chicken Manure (5%)	53.4	78.4	56.6	100	66.9	201
Chicken Manure (10%)	58.4	81.5	70.5	111	70	225
Chicken Manure (15%)	60.7	86.3	99.5	128	72.5	233
Chicken Manure (20%)	61.4	89.4	130	147	76	264
Food Waste Compost (5%)	51.2	76.8	45.1	98.1	65.2	190
Food Waste Compost (10%)	53.5	79.6	65.6	112.1	66.2	211
Food Waste Compost (15%)	56.8	82.6	98.5	115	70.8	221
Food Waste Compost (20%)	59.7	85.4	127.4	128	74.7	235

Table S3 Effects of different proportions of BC-SL and BC-CMHR-SL on the germination of carrot and lettuce.

Crop species	Treatment	Germination rate (%)	Root length (mm)	Shoot length (mm)
Carrot	Control	96	19.6±1.0	7.5±0.8
	SL-BC (5%)	84	20.5±0.8	8.6±0.6
	SL-BC (10%)	85	18.7±0.3	6.4±0.9
	SL-BC (20%)	86	16.9±1.8	5.5±0.9
	SL-CMHR-BC (5%)	85	20.6±1.1	9.1±1.2
	SL-CMHR-BC (10%)	88	17.8±0.6	6.5±0.8
	SL-CMHR-BC (20%)	86	16.6±0.3	5.3±0.6
Lettuce	Control	92	28.3±0.4	5.3±0.4
	SL-BC (5%)	89	28.8±0.2	5.4±0.6
	SL-BC (10%)	89	25.3±0.2	4.1±0.5
	SL-BC (20%)	88	18.6±0.5	2.6±0.3
	SL-CMHR-BC (5%)	85	28.7±1.9	6.0±0.4
	SL-CMHR-BC (10%)	86	26.4±1.1	5.4±0.6
	SL-CMHR-BC (20%)	85	19.1±0.9	2.8±0.9