

Results obtained from Onewater® treatment for various pollutants.

Depending on type of water, Onewater® treatment may include additional purifying elements (filtering, activated carbon...).

Drinking water

Pollutant	Initial	Final	Removal efficiency	Type of water
Hardness (mgCaCO ₃ /L)	955	295	69%	Water supply wells
Chloride Cl ⁻ (mg/L)	1016	498	51%	Water supply wells
	885	420	53%	
	512	312	39%	
Arsenic As (µg/L)	740.9	< 2	> 99.7%	Water supply wells
Chromium VI Cr ⁶⁺ (µg/L)	4788	< 5	> 99.90%	Water supply wells
	5125	< 5	> 99.90%	
	4483	< 5	> 99.89%	
Nickel Ni (mg/L)	75	< 1	> 98.7%	Water supply wells
Electrical conductivity CE (µS/cm)	3760	1260	66%	Water supply wells
Phosphorous P (mg/L)	> 32.6	1	96.9%	Water supply wells
Nitrate NO ₃ ⁻ (mg/L)	78	44	44%	Water supply wells (Soft treatment)
Nitrate NO ₃ ⁻ (mg/L)	85	< 20	> 76%	Water supply wells (Strong treatment)
	75	< 20	> 73%	

Industrial wastewater

Pollutant	Initial	Final	Removal efficiency	Industrial sector Type of water
Chemical Oxygen Demand COD (mgO ₂ /L)	21500	2870	87%	Pig husbandry Purine
	14740	1860	87%	
	44120	7620	83%	
	1221	276	77%	Poultry breeding Water from chicks incubators washing
	738	392	47%	
840	< 150	> 82%	Dairy industry Wastewater from different points of production	
	1240	200		84%
477	110	77%	Metallurgical Direct refrigerating water	
550	210	62%	Cardboard manufacturing Wastewater	
Ammonium NH ₄ ⁺ (mg/L)	3000	740	75%	Pig husbandry Purine
	1400	800	43%	
Sulphate SO ₄ ⁼ (mg/L)	1610	1082	33%	xxxxxx
Electrical conductivity CE (µS/cm)	1579	490	69%	Poultry breeding Water from chicks incubators washing
	1461	627	57%	
	3440	1540	45%	Metallurgical Direct refrigerating water
2540	890	65%	Cardboard manufacturing Wastewater	
Phosphorous P (mg/L)	140.35	0.17	99.9%	Vegetables growing Wastewater
Iron Fe (mg/L)	0.30	0.00	100%	Metallurgical Direct refrigerating water
	6.80	3.40	50%	Cardboard manufacturing Wastewater
Nickel Ni (mg/L)	0.108	0.012	89%	Metallurgical Direct refrigerating water
	3.40	0.20	94%	Cardboard manufacturing Wastewater

Industrial wastewater (cont.)

Pollutant	Initial	Final	Removal efficiency	Industrial sector Type of water
Chromium VI Cr ⁶⁺ (µg/L)	0.15	0.05	67%	Metallurgical Direct refrigerating water
	0.12	0.03	75%	Cardboard manufacturing Wastewater
Copper Cu (mg/L)	2.07	0.21	90%	Metallurgical Direct refrigerating water
	808	29.3	96%	Cardboard manufacturing Wastewater

Urban wastewater

Pollutant	Initial	Final	Removal efficiency	Industrial sector Type of water
Chemical Oxygen Demand COD (mgO ₂ /L)	286	< 100	>65%	Urban wastewater (average values)
	335	78	77%	
	1222	253	79%	
Ammonium NH ₄ ⁺ (mg/L)	48	3	94%	Urban wastewater
	82	19	85%	
	124	96	23%	
Phosphorous P (mg/L)	75	1.5	98.0%	Urban wastewater
	37.5	0.5	98.7%	
Electrical conductivity CE (µS/cm)	1868	761	59%	Urban wastewater
	2410	1307	46%	
	1754	915	48%	
Chloride Cl ⁻ (mg/L)	324	90	72%	Urban wastewater
	304	204	33%	