

Supplementary Materials

Table S1. Macronutrients and buffering capacity of standard synthetic Bold's Basal Medium (BBM), 30% Hoagland's medium (30% HG), natural fishery wastewater (FWW), and reconstituted fishery wastewater (RFWW) used in the experiment, ppm.

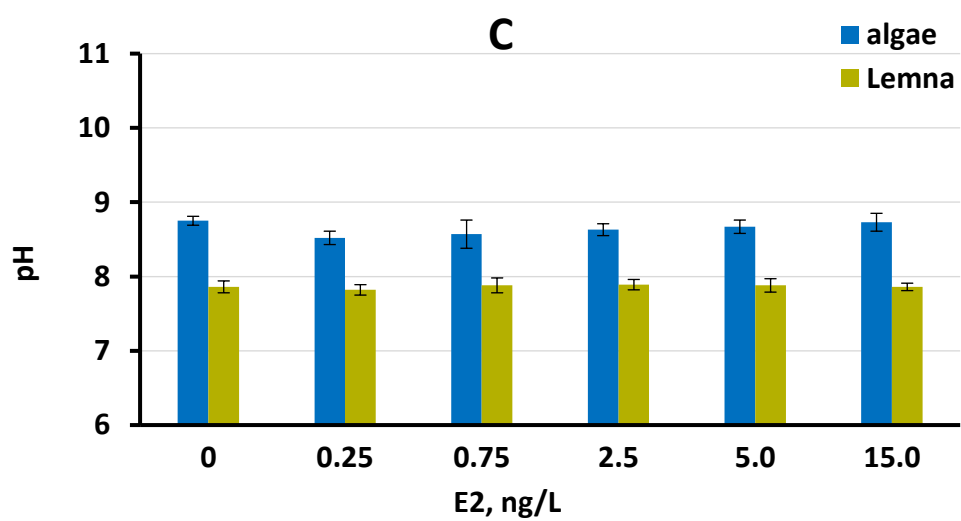
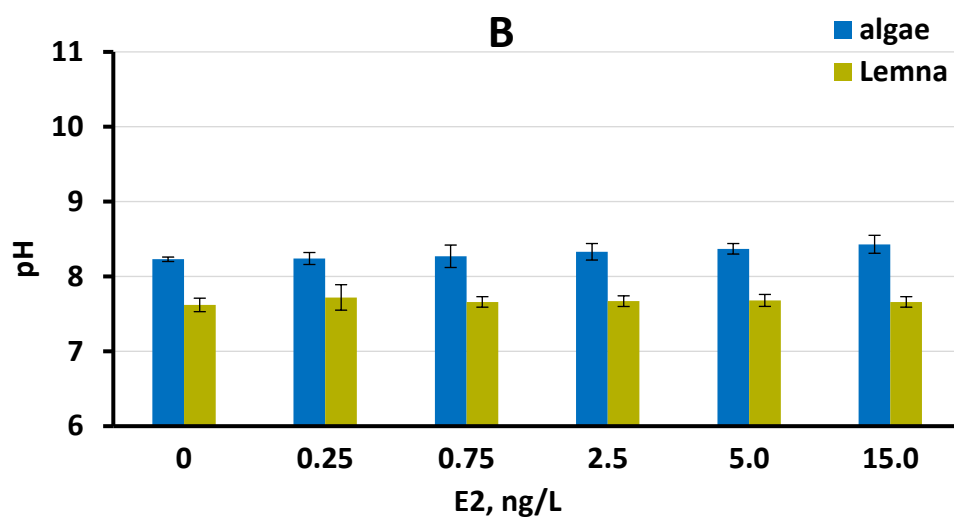
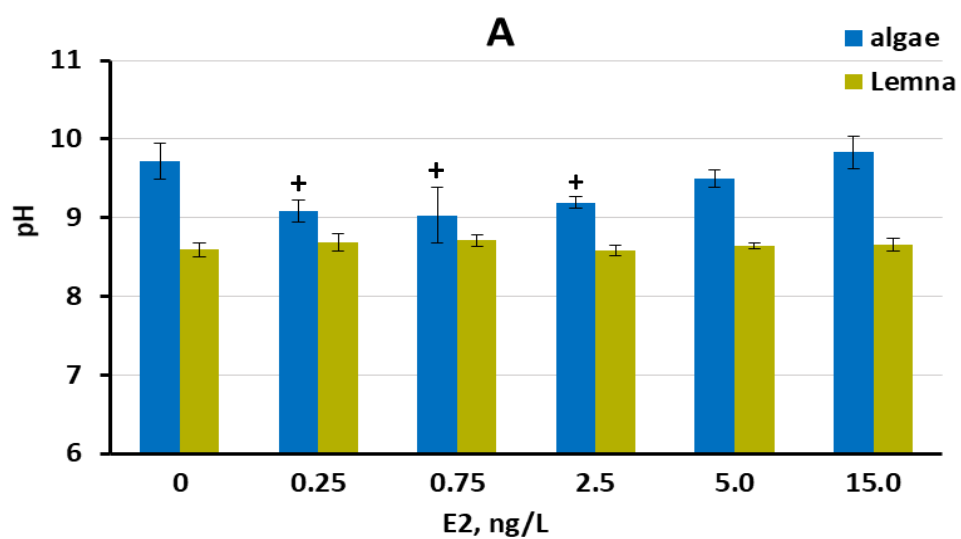
	DOC	TC	TDS	TN	NO ₃	NO ₂	NH ₄ -N	PO ₄ -P	TDP	pH	Alkalinity (as CaCO ₃)	Conductivity (mS/cm)
BBM	<0.5	<1	635	41	182	0	1.5	50	50	6.8	354	720
30%HG	70	60	25	74	0.25	1.5	<0.005	<0.005	0	0	0	0
FWW	19.4	60.4	585.5	20.5	175	0.2	0.7	0.9	30	7.75	363.7	555
RFWW	<0.5	50	600	40	180	0	1	50	50	7	350	750

DOC, Dissolve Organic Carbon; TC, Total Carbon (KHCO₃; NaHCO₃); TDS, Total Dissolved Solids; TN, Total Nitrogen; TDP, Total Dissolved Phosphorus.

Table S2. Micronutrients in standard synthetic Bold's Basal Medium (BBM), 30% Hoagland's medium (30% HG), natural fishery wastewater (FWW), and reconstituted fishery wastewater (RFWW) used in the experiment, ppm.

Ions	Ca	Mg	K	Na	B	Fe	Cu	Zn	Al	Ni	Pb	Cd
BBM	68	25	62	68	0.5	1.5	0.005	0.005	0	0	0	0
30%HG	70	60	25	74	0.25	1.5	<0.005	<0.005	0	0	0	0
FWW	73.5	60	16	75.6	0.3	1.06	0.04*	0.007	0.04	0	0.001	0.005
RFWW	70	40	52	68	0.5	1.5	0.005	0.005	0	0	0	0

* - above LOEC (Lowest Observed Effect Concentration) for algae species [66, 67].



13 **Figure S1.** pH of three culture media on day 11 of the experiment: (A) FFW; (B) RFWW; (C) BBM.
14 Statistically significant difference from the controls ($p < 0.05$) are indicated, where * - significantly greater
15 than the control and + - significantly lower than the control. Data shown as the mean \pm SD, n = 4. Control
16 cultures did not contain E2, indicated by “0”.
17