

Table S1: Monthly variations of rainfall, relative humidity in the study area. The data were extracted from the Jeddah meteorological station (Saudi Arabia).

	Temperature °C			Relative Humidity (%)			Precipitation (ml)
	Mx	Mn	M	Mx	Mn	M	
January	26.8	18.2	22.3	81	8	46	0
February	28	19.6	23.6	87	14	53	1
March	30.5	20.7	25.3	95	9	55	6.2
April	32.8	23.2	27.8	83	17	53	0
May	35.9	26.8	31.2	84	8	49	0
June	37.9	27.3	32.3	86	5	52	0
July	38.5	29.1	33.6	93	12	49	2
August	38.7	30	34.2	81	19	52	0
September	38.7	30	33.9	88	5	58	TRACE
October	39.2	27	32.4	89	3	49	3.8
November	33.1	25.3	28.8	88	23	57	19
December	31.9	22.4	26.6	84	8	53	8

Table S2: List of the recorded species with their families, relative densities (RD) and frequencies (F) in the different sites.

Table S3: Redox status of ASC (ASC/TASC, ASC/DHA) and GSH (GSH/TGSH, GSH/GSSG) of *S. portulacastrum* grown in different control site (Site 1) and contaminated sites (Site 2-5). Data are mean values \pm SE ($n=4$). Different letters represents the significant differences between the effect of heavy metal stress in the different target sites (Tukey test ($P < 0.05$)).

	S1		S2		S3		S4		S5	
	Root	Shoot	Root	Shoot	Root	Shoot	Root	Shoot	Root	Shoot
ASC/TASC	67.3 \pm 3.9 ^a	54.6 \pm 0.3 ^a	53.9 \pm 0.2 ^{ab}	41.6 \pm 2.5 ^b	43.2 \pm 0.4 ^b	30 \pm 1.4 ^c	42.3 \pm 9.1 ^{ab}	31 \pm 0.5 ^d	33.3 \pm 4.1 ^c	27.9 \pm 0.1 ^d
ASCH/DHA	0.86 \pm 0.04 ^a	0.91 \pm 0.07 ^a	0.69 \pm 0.05 ^b	0.73 \pm 0.1 ^b	0.42 \pm 0 ^c	0.53 \pm 0.03 ^c	0.34 \pm 0 ^d	0.39 \pm 0.02 ^d	0.24 \pm 0.09 ^e	0.32 \pm 0.01 ^d
GSH/TGSH	50.9 \pm 1.9 ^a	47.6 \pm 2.9 ^a	40.2 \pm 2.1 ^{ab}	26.9 \pm 1.6 ^b	15.9 \pm 1.3 ^c	25.5 \pm 0.4 ^b	24.9 \pm 0.3 ^b	22 \pm 0.6 ^b	17.3 \pm 1.6 ^c	13.3 \pm 1.7 ^c
GSH/GSSG	0.53 \pm 0.07 ^a	0.44 \pm 0.07 ^a	0.25 \pm 0.04 ^b	0.34 \pm 0.09 ^b	0.21 \pm 0.01 ^b	0.34 \pm 0.07 ^b	0.262 \pm 0.06 ^b	0.36 \pm 0.02 ^b	0.162 \pm 0.1 ^c	0.18 \pm 0.05 ^c