Supplementary Table 1: Mean and standard deviation (µg/g) of Arsenic by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		FLB		POM	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**
Thalassia testudinum						
Leaves/Shoots	0.72 ± 0.14	0.56 ± 0.59	0.36 ± 0.00	0.81 ± 0.00	0.34 ± 0.16	0.51 ± 0.34
Leaves with Epiphytes	0.77 ± 0.5	0.69 ± 0.56	0.37 ± 0.00	0.70 ± 0.00	0.62 ± 0.26	0.65 ± 0.52
Roots/Rhizomes	0.68 ± 0.4	0.55 ± 0.33	-	2.95 ± 0.00	0.68 ± 0.78	0.87 ± 0.87
Halodule wrightii						
Leaves/Shoots	0.78 ± 0.49	0.44 ± 0.30	0.39 ± 0.21	0.45 ± 0.23	0.99 ± 1.04	0.49 ± 0.60
Roots/Rhizomes	0.47 ± 0.09	0.54 ± 0.51	0.35 ± 0.16	0.57 ± 0.49	0.63 ± 0.53	0.41 ± 0.38
Syringodium filiforme						
Leaves/Shoots	-	0.52 ± 0.30	-	-	0.38 ± 0.24	0.65 ± 0.49
Roots/Rhizomes	-	0.68 ± 0.53	-	-	0.31 ± 0.04	0.58 ± 0.59

Supplementary Table 2: Mean and standard deviation (µg/g) of Cadmium by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		FLB		POM	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**
Thalassia testudinum						
Leaves/Shoots	1.64 ± 0.65	1.36 ± 0.74	2.04 ± 0.00	-	1.71 ± 0.85	1.58 ± 1.23
Leaves with Epiphytes	1.50 ± 0.82	1.13 ± 0.50	1.45 ± 0.00	-	2.56 ± 2.14	0.94 ± 0.60
Roots/Rhizomes	1.24 ± 0.62	1.26 ± 0.61	-	0.22 ± 0.00	2.26 ± 1.76	1.06 ± 0.72
Halodule wrightii						
Leaves/Shoots	1.63 ± 0.72	1.19 ± 0.74	1.42 ± 0.13	1.34 ± 0.21	2.27 ± 1.51	1.25 ± 0.60
Roots/Rhizomes	1.43 ± 0.92	1.00 ± 0.57	1.26 ± 0.79	1.14 ± 0.34	2.54 ± 2.94	1.43 ± 0.59
Syringodium filiforme						
Leaves/Shoots	1.41 ± 0.74	0.59 ± 0.34	-	-	1.84 ± 1.43	1.13 ± 0.58
Roots/Rhizomes	1.81 ± 0.03	0.76 ± 0.39	-	-	2.36 ± 2.53	1.50 ± 0.74

Supplementary Table 3: Mean and standard deviation (µg/g) of Copper by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		FLB		POM	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**

Leaves/Shoots	36.19 ± 38.42	10.83 ± 5.15	12.81 ± 0.00	14.77 ± 0.00	26.81 ± 14.54	15.43 ± 14.24
Leaves with Epiphytes	44.88 ± 58.80	12.05 ± 4.43	-	1.46 ± 0.00	24.76 ± 19.69	12.85 ± 13.66
Roots/Rhizomes	39.93 ± 37.90	12.83 ± 7.40	-	3.90 ± 0.00	9.62 ± 5.74	16.56 ± 10.95
Halodule wrightii						
Leaves/Shoots	53.42 ± 49.75	10.03 ± 5.24	50.54 ± 57.42	4.95 ± 0.37	20.38 ± 16.40	13.32 ± 6.37
Roots/Rhizomes	43.41 ± 45.72	11.50 ± 5.35	34.74 ± 45.72	14.40 ± 12.21	18.42 ± 18.35	11.16 ± 5.82
Syringodium filiforme						
Leaves/Shoots	32.73 ± 18.97	12.75 ± 6.77	-	-	18.23 ± 22.44	14.13 ± 8.09
Roots/Rhizomes	40.51 ± 57.77	3.66 ± 1.25	-	-	13.28 ± 12.19	12.11 ± 5.40

Supplementary Table 6: Mean and standard deviation (µg/g) of Manganese by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		**FLB**		**POM**	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**
Thalassia testudinum						
Leaves/Shoots	90.67 ± 75.52	68.45 ± 23.74	49.13 ± 0.00	28.56 ± 0.00	41.62 ± 20.01	25.46 ± 6.05
Leaves with Epiphytes	109.15 ± 103.47	74.14 ± 29.14	47.21 ± 0.00	22.10 ± 0.00	52.62 ± 19.64	30.86 ± 11.38
Roots/Rhizomes	10.54 ± 5.13	9.63 ± 6.52	-	11.98 ± 0.00	7.11 ± 6.22	4.26 ± 2.69
Halodule wrightii						
Leaves/Shoots	121.87 ± 68.00	53.64 ± 37.09	32.83 ± 29.04	16.39 ± 5.45	36.79 ± 19.57	21.86 ± 10.18
Roots/Rhizomes	13.88 ± 6.65	6.66 ± 3.02	4.41 ± 2.32	3.61 ± 1.26	8.75 ± 5.73	4.36 ± 2.34
Syringodium filiforme						
Leaves/Shoots	46.39 ± 26.36	25.89 ± 7.88	-	-	21.87 ± 17.27	13.56 ± 6.31
Roots/Rhizomes	13.85 ± 6.41	5.48 ± 4.74	-	-	4.08 ± 4.08	3.45 ± 1.89

Supplementary Table 7: Mean and standard deviation (µg/g) of Mercury by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		**FLB**		**POM**	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**
Thalassia testudinum						
Leaves/Shoots	3.23 ± 2.44	0.89 ± 0.99	-	0.18 ± 0.00	2.23 ± 2.15	3.15 ± 8.44
Leaves with Epiphytes	4.46 ± 5.36	1.62 ± 1.85	8.39 ± 0.00	0.15 ± 0.00	3.46 ± 2.24	4.57 ± 1.08
Roots/Rhizomes	3.25 ± 2.54	1.40 ± 1.31	-	0.74 ± 0.00	4.95 ± 2.73	0.85 ± 0.67

Halodule wrightii						
Leaves/Shoots	6.16 ± 5.30	1.26 ± 1.09	4.77 ± 0.00	2.89 ± 2.59	2.61 ± 2.50	1.23 ± 1.19
Roots/Rhizomes	6.90 ± 5.12	0.93 ± 0.76	2.45 ± 0.00	1.10 ± 1.21	2.52 ± 2.23	1.07 ± 1.52
Syringodium filiforme						
Leaves/Shoots	4.79 ± 4.12	0.66 ± 0.56	-	-	3.08 ± 2.36	0.82 ± 0.61
Roots/Rhizomes	5.48 ± 3.56	1.16 ± 1.18	-	-	2.72 ± 2.63	0.93 ± 0.72

Supplementary Table 8: Mean and standard deviation (µg/g) of Nickel by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		**FLB**		**POM**	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**
Thalassia testudinum						
Leaves/Shoots	25.85 ± 35.61	6.11 ± 2.12	3.83 ± 0.00	5.26 ± 0.00	14.75 ± 11.66	8.90 ± 3.81
Leaves with Epiphytes	18.99 ± 26.09	7.19 ± 3.36	8.72 ± 0.00	3.69 ± 0.00	9.03 ± 3.29	7.87 ± 3.47
Roots/Rhizomes	31.86 ± 30.67	6.79 ± 4.67		5.63 ± 0.00	6.83 ± 1.75	5.98 ± 2.63
Halodule wrightii						
Leaves/Shoots	27.02 ± 26.79	6.92 ± 3.47	20.72 ± 15.18	3.83 ± 1.49	12.6 ± 21.84	8.17 ± 6.44
Roots/Rhizomes	28.17 ± 26.88	7.79 ± 3.60	11.53 ± 14.04	6.04 ± 3.00	18.61 ± 18.99	7.47 ± 3.03
Syringodium filiforme						
Leaves/Shoots	36.23 ± 36.57	3.78 ± 1.57	-	-	11.34 ± 4.28	7.66 ± 3.28
Roots/Rhizomes	23.79 ± 23.12	4.09 ± 1.40	-	-	16.86 ± 11.62	6.50 ± 3.44

Supplementary Table 9: Mean and standard deviation (µg/g) of Selenium by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		**FLB**		**POM**	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**
Thalassia testudinum						
Leaves/Shoots	1.34 ± 0.94	0.27 ± 0.19	-	0.20 ± 0.00	2.16 ± 1.58	0.24 ± 0.13
Leaves with Epiphytes	0.49 ± 0.00	0.25 ± 0.16	-	-	1.19 ± 0.00	0.16 ± 0.11
Roots/Rhizomes	2.05 ± 1.09	0.37 ± 0.13	-	0.32 ± 0.00	1.47 ± 0.34	0.37 ± 0.18
Halodule wrightii						
Leaves/Shoots	2.26 ± 0.86	0.28 ± 0.18	-	0.31 ± 0.11	2.99 ± 1.81	0.23 ± 0.13
Roots/Rhizomes	2.85 ± 0.00	0.47 ± 0.21	-	0.28 ± 0.10	1.83 ± 0.92	0.33 ± 0.26
Syringodium filiforme						

Leaves/Shoots	0.86 ± 0.39	0.64 ± 0.31	-	-	2.22 ± 0.94	0.26 ± 0.27
Roots/Rhizomes	3.42 ± 0.00	0.21 ± 0.02	-	-	0.98 ± 0.09	0.17 ± 0.08

Supplementary Table 10: Mean and standard deviation (µg/g) of Zinc by location, season, species, and plant part. The numbers presented include data from all sites and months. Values with a standard deviation of 0.00 are those where only one sample was available for testing.

	CAP		**FLB**		**POM**	
	Wet	**Dry**	**Wet**	**Dry**	**Wet**	**Dry**
Thalassia testudinum						
Leaves/Shoots	46.56 ± 17.59	68.67 ± 38.70	140.65 ± 0.00	189.84 ± 0.00	64.93 ± 16.18	135.59 ± 55.75
Leaves with Epiphytes	53.04 ± 21.04	55.06 ± 32.01	144.90 ± 0.00	208.72 ± 0.00	71.24 ± 31.45	117.77 ± 44.01
Roots/Rhizomes	69.22 ± 37.44	69.79 ± 33.51		346.06 ± 0.00	38.63 ± 12.67	97.65 ± 77.33
Halodule wrightii						
Leaves/Shoots	40.01 ± 11.54	47.91 ± 26.39	105.83 ± 24.43	214.83 ± 204.30	57.43 ± 31.89	104.48 ± 35.27
Roots/Rhizomes	33.39 ± 6.73	69.47 ± 40.19	63.38 ± 10.10	105.94 ± 26.74	38.44 ± 12.14	70.83 ± 26.25
Syringodium filiforme						
Leaves/Shoots	30.26 ± 10.97	35.48 ± 17.13	-	-	82.94 ± 43.09	113.55 ± 49.99
Roots/Rhizomes	26.07 ± 5.50	42.38 ± 18.35	-	-	48.54 ± 15.06	85.00 ± 48.82