

Supporting information

1. Details of the collected lagoon water samples

Location	Sample ID	Sample name	Collection month
Hog lagoon 1	HL-1	Lagoon water	August
Hog lagoon 1	HL-2	Center pivot spray	August
Hog lagoon 1	HL-3	Center pivot spray	August
Hog lagoon 1	HL-4	Center pivot spray	August
Hog lagoon 2	HL-5	Lagoon water	September
Hog lagoon 2	HL-6	Lagoon water from pump	September
Hog lagoon 2	HL-7	Traveling gun spray	September
Hog lagoon 3	HL-8	Traveling gun spray	September
Hog lagoon 3	HL-9	Lagoon water (lower lagoon)	September
Hog lagoon 3	HL-10	Lagoon water (upper lagoon)	September
Hog lagoon 1	HL-11	Lagoon water	December
Hog lagoon 2	HL-12	Lagoon water	December
Hog lagoon 3	HL-13	Lagoon water (lower lagoon)	December
Hog lagoon 3	HL-14	Lagoon water (upper lagoon)	December
Hog lagoon 1	HL-15	Lagoon water	March
Hog lagoon 2	HL-16	Lagoon water	March
Hog lagoon 3	HL-17	Lagoon water (lower lagoon)	March
Hog lagoon 3	HL-18	Lagoon water (upper lagoon)	March

2. Lagoon water analyses (n=3) complete data (Concentrations in ng/L units)

		HL 1	HL 2	HL 3	HL 4	HL 5	HL 6	HL 7	HL 8	HL 9	HL 10	HL 11	HL 12	HL 13	HL 14	HL 15	HL 16	HL 17	HL 18
E3 (ng/L)	Aqueous phase	8.34 (1.02)	<LOQ	ND	11.36 (0.28)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.74 (1.68)	ND	ND	ND
	Residue	<LOQ	<LOQ	ND	<LOQ	ND	ND	ND	ND	ND	ND	<LOQ	ND	ND	ND	<LOQ	ND	ND	ND
	Total	8.34	<LOQ	ND	11.36	ND	ND	ND	ND	ND	ND	ND	<LOQ	ND	ND	ND	13.74	ND	ND
EE2 (ng/L)	Aqueous phase	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Residue	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
βE2 (ng/L)	Aqueous phase	<LOQ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Residue	<LOQ	<LOQ	<LOQ	ND	<LOQ	ND	ND	ND	ND	ND	ND	ND	ND	ND	<LOQ	ND	ND	ND
	Total	<LOQ	<LOQ	<LOQ	ND	<LOQ	ND	ND	ND	ND	ND	ND	ND	ND	ND	<LOQ	ND	ND	ND
αE2 (ng/L)	Aqueous phase	<LOQ	16.84 (1.05)	ND	28.95 (1.03)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<LOQ	<LOQ	ND	ND
	Residue	<LOQ	<LOQ	ND	7.91 (0.42)	ND	ND	ND	ND	ND	ND	13.54 (0.44)	ND	ND	ND	<LOQ	ND	ND	ND
	Total	<LOQ	16.84	ND	36.86	ND	ND	ND	ND	ND	ND	13.54	ND	ND	ND	<LOQ	<LOQ	ND	ND
E1 (ng/L)	Aqueous phase	25.73 (5.01)	21.09 (1.63)	<LOQ	70.05 (3.22)	6.89 (0.53)	<LOQ	<LOQ	<LOQ	ND	<LOQ	<LOQ	ND	<LOQ	ND	35.21 (7.76)	8.51 (1.67)	<LOQ	<LOQ
	Residue	24.42 (4.51)	31.51 (1.51)	<LOQ	36.29 (2.13)	<LOQ	<LOQ	<LOQ	<LOQ	ND	ND	<LOQ	<LOQ	<LOQ	<LOQ	21.44 (0.08)	ND	ND	ND
	Total	50.15	52.60	<LOQ	106.34	6.89	<LOQ	<LOQ	<LOQ	ND	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	56.65	8.51	<LOQ	<LOQ
E1- Conjugates (ng/L)	Aqueous phase	ND	4.86 (1.30)	ND	ND	ND	ND	ND	ND	ND	ND	56.33 (13.28)	ND	ND	<LOQ	31.59 (4.35)	<LOQ	ND	ND
βE2- Conjugates (ng/L)	Aqueous phase	ND	8.80 (1.25)	ND	ND	ND	ND	ND	ND	ND	ND	19.37 (1.82)	<LOQ	ND	<LOQ	6.00 (0.39)	ND	ND	ND

ND = Not detected

<LOQ = Below the limit of quantification

4. Storm water analyses (n=3) complete data (Concentrations in ng/L units)

Sample ID	E1	α E2	β E2	E3	E1- Conjugates	β E2- Conjugates
SW-1	2.71 (0.09)	2.60 (0.29)	ND	ND	1.36 (0.15)	ND
SW-2	ND	ND	ND	ND	ND	ND
SW-3	ND	ND	ND	ND	ND	ND
SW-4	ND	ND	ND	ND	ND	ND
SW-5	ND	ND	ND	ND	4.45 (0.23)	ND
SW-6	ND	ND	ND	ND	ND	ND
SW-7	ND	ND	ND	ND	ND	ND
SW-8	ND	ND	ND	ND	1.36 (0.50)	ND
SW-9	ND	ND	ND	ND	5.82 (0.04)	ND
SW-10	ND	ND	ND	ND	2.58 (0.32)	ND
SW-11	ND	ND	ND	ND	1.96 (0.02)	ND
SW-12	ND	ND	ND	ND	3.16 (0.08)	ND
SW-13	ND	ND	ND	ND	ND	ND
SW-14	ND	ND	ND	ND	3.66 (0.10)	ND
SW-15	ND	ND	ND	ND	2.79 (0.02)	ND
SW-16	ND	ND	ND	ND	3.82 (0.18)	ND
SW-17	ND	ND	ND	ND	3.77 (0.12)	ND
SW-18	ND	ND	ND	ND	3.61 (0.23)	ND
SW-19	ND	ND	ND	15.77 (1.09)	3.31 (0.07)	ND
SW-20	ND	ND	ND	23.08 (3.57)	ND	ND
SW-21	2.99 (0.09)	ND	ND	ND	2.24 (0.43)	ND
SW-22	ND	ND	ND	ND	3.04 (0.32)	ND
SW-23	ND	ND	ND	5.12 (0.25)	1.40 (0.56)	ND
SW-24	9.90 (0.25)	ND	20.89 (0.03)	ND	3.19 (0.73)	ND
SW-25	ND	ND	21.96 (0.90)	7.54 (0.05)	2.74 (0.71)	ND
SW-26	8.03 (0.68)	ND	35.92 (0.21)	ND	<LOQ	ND