

**Supplementary Table S1** Unique *Acanthamoeba* endosymbiont species count per week for each source

Source	Week 1	Week 2	Week 3
1st Street Beach	2	0	9
53rd Street Beach	1	4	8
Key Biscayne Beach Club	1	7	13
Key Biscayne Crandon Park South	7	16	19
Little River Pocket Park	7	6	30
Parkview Kayak Launch	4	13	19
Purdy Kayak Launch, Maurice Gibb Park	13	2	22
Surfside 93rd Street Beach	3	4	5

**Supplementary Table S2** Distribution of associated diseases by source

Source	Endophthalmitis	Eye Infection	Gastrointestinal	Human Feces	Keratitis	Respiratory	Skin
1st Street Beach	6	7	5	6	7	6	7
53 <sup>rd</sup> Street Beach	6	8	5	7	8	7	8
Key Biscayne Beach Club	9	10	5	9	9	10	10
Key Biscayne Crandon Park South	15	18	12	14	16	13	17
Little River Pocket Park	16	19	10	14	16	14	18
Parkview Kayak Launch	15	16	9	13	16	10	15
Purdy Kayak	14	16	9	12	15	14	17

Launch, Maurice Gibb Park							
Surfside 93rd Street Beach	3	4	4	4	4	5	4