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Exhibit 1

RESOLUTION NO. 2019-

**A RESOLUTION OF THE MAYOR AND CITY COMMISSION
OF THE CITY OF HALLANDALE BEACH, FLORIDA,
ENCOURAGING THE USE OF CORAL REEF SAFE
SUNSCREENS; AND PROVIDING FOR AN EFFECTIVE
DATE.**

WHEREAS, coral reefs are found approximately 500 feet from the shores of Hallandale Beach. A colony of Staghorn Coral (*Acropora cervicornis*) can be found less than a half-mile offshore the City; and

WHEREAS, Coral reefs provide many benefits to human well-being (“ecosystem services”) including but not limited to medicine, coastal protection, aesthetics, and food. Healthy coral reefs can reduce wave energy by up to 97%, thus protecting the coast in the event of storms or hurricanes. Additionally, coral reefs contribute to tourism. The National Oceanic and Atmospheric Administration estimates that coral reefs in southeast Florida have an economic asset value of \$8.5 billion; and

WHEREAS, the Florida Reef Tract is experiencing a widespread and multi-year outbreak of coral disease. As of 2018, over half of the Florida Reef Tract has been affected. This disease has been killing more than 20 species of coral, seemingly targeting species which build reefs. As of 2015, the disease has been observed throughout the entire coast of Broward County; and

WHEREAS, various studies throughout the world have shown that compounds – including but not limited to oxybenzone and octinoxate- from sunscreen are measurable in waters frequently used for recreation and tourism. A study done by Danovaro et al. found that sunscreens caused coral bleaching via the promotion of viral infections in zooxanthellae. The Danovaro study found that sunscreen caused 78% of the zooxanthellae in Staghorn coral to be released, causing bleaching as early as 18 hours after exposure; and

WHEREAS, a separate study by Downs et al. found that the oxybenzone concentration which results in killing 50% of the population for four South Florida coral

38 species, including Staghorn coral, ranged from 9-340 micrograms per liter of seawater;
39 and

40

41 **WHEREAS**, no studies have been done on the concentration of sunscreen
42 chemicals offshore in Hallandale Beach, however, even low concentrations of sunscreen
43 can cause distress and bleaching in corals.; and

44

45 **WHEREAS**, the Mayor and City Commission wish to encourage the use of coral
46 reef safe sunscreens as an effective sun protection that also protects the health and
47 economic value of our coral reef.

48

49 **NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY**
50 **COMMISSION OF THE CITY OF HALLANDALE BEACH, FLORIDA:**

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53 **SECTION 1.** The Mayor and City encourage the use of coral reef safe
54 sunscreens as an effective sun protection that also protects the health and economic value
55 of our coral reef

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57 **SECTION 2.** The City Commission hereby directs the City Clerk to transmit a copy
58 of this Resolution to all appropriate entities.

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59 **SECTION 3.** This Resolution shall become effective immediately upon its adoption.

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62 APPROVED AND ADOPTED this _____ day of _____, 2019.

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JOY D. ADAMS
MAYOR

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71 SPONSORED BY: VICE MAYOR SABRINA JAVELLANA

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ATTEST:

JENORGEN GUILLEN, CMC
CITY CLERK

APPROVED AS TO LEGAL SUFFICIENCY AND
FORM

JENNIFER MERINO
CITY ATTORNEY

FINAL VOTE ON ADOPTION

Mayor Adams _____
Vice Mayor Javellana _____
Commissioner Butler _____
Commissioner Lazarow _____
Commissioner Lima- Taub _____

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