Exhibit 1. Debris Collection Alternatives for the City of Miami Beach Stormwater System

Alternative	Location	Pros	Cons	Costs
Bar Racks  Onto the second sec	Consolidated, Upstream of Stormwater Outfall Discharge  18-Mar-2019 10:19:00 12:14-12:98 10th St	<ul> <li>✓ Is already in use throughout the City: CMB Pump Station Locations – installation and maintenance procedures are known</li> <li>✓ Low visual impact</li> <li>✓ Minimum impact to stormwater flow</li> <li>✓ Works in free-draining and submerged environments</li> </ul>	<ul> <li>         ⊠ Requires the construction of an additional stormwater structure         </li> <li>         ⊠ Community and traffic impacts during construction and maintenance     </li> </ul>	Capital \$\$\$  Maintenance
				\$
				Overall \$\$
Stormwater Inlet Grates	Multiple Installations, at Every Stormwater Inlet	✓ Easy to install ✓ Different configurations available	<ul> <li>☑ Disrupts flow when blocked with debris, causing flooding</li> <li>☑ Will require each stormwater inlet to be cleaned and maintained frequently</li> <li>☑ Community and traffic impacts during construction and maintenance</li> </ul>	Capital <b>\$\$</b>
				Maintenance \$\$\$
				Overall \$\$\$
Outfall Filtration Net	Consolidated, At Outfall Discharge	<ul> <li>✓ Works in free-draining and submerged environments</li> <li>✓ Relatively easy installation process</li> <li>✓ Minimum impact on flow</li> <li>✓ Minimum impacts to the community and traffic during construction and maintenance operations</li> </ul>	<ul> <li>☑ May be unsightly</li> <li>☑ May impact boat traffic</li> <li>☑ May be difficult to access</li> <li>☑ Nets may become damaged at high flow velocities</li> <li>☑ When net becomes full, it disengages from the main unit, and though there is a safety system, it no longer catches debris</li> <li>☑ Requires a crane and boat for cleaning the net</li> </ul>	Capital <b>\$</b>
				Maintenance
				\$\$
				Overall
				\$\$