

ENVIRONMENTAL CONSULTING, INC.

**Providing Environmental Solutions** 

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CONSERVATION STEWARDSHIP

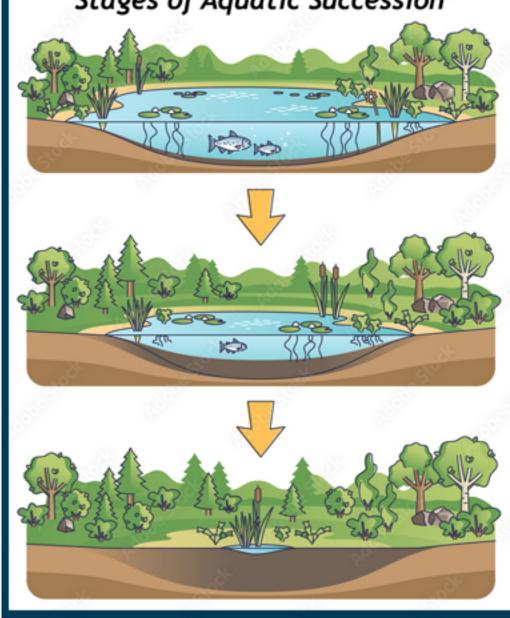
## Pond Succession: Preventing the Naturally Occuring Process

Due to the laws of nature, "pond succession" occurs as a function of natural processes. Stormwater Management (SWM) ponds must be managed and maintained on a regular basis in order to prevent succession processing. The aquatic succession begins with the growth and development of algae and pond weeds pioneering in newly created surface water bodies. Energy from the sun, nutrients from runoff (Nitrogen and Phosphorus), silt, sediments, and other material that travels with water into SWM ponds, initiate the process of growth and development.

even in a small pond. (Some of the more obvious are shown here.) Sun Energy Aerial Predators Light & Prey Terrestrial Predators & Prey H,O CO, O, Runoff Orgainic Orgainic Neuston (1) Gain ↑Loss Scavengers 12 (14) Soil and organic materials (6) Phytoplankton (11) Decay (2) Mineral compounds leached from soil (7) Oxygen (12) Bacteria (3) Heat distribution through circulation (8) Carbon dioxide (13) Detritus (4) Heat conduction (14) Worm activity in substrate (9) Phosphates (5) Nitrogen compounds (protein, nitrates, (10) Feces (15) Filter feeders ammonia, etc..) and nitrogen

The interactions of organisms with one another and with their environment are complex

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This natural process happens consistently, continuously, and in perpetuity. Aquatic succession cannot be stopped, it can only be controlled. As a company, Envirotech Environmental Consulting Inc. (EECI) diligently works to prevent pond succession from occurring to keep your communities sustainable.

If you have any questions or concerns, please contact EECI's professional office at 302.684.5201 or via email at info@envirotechecinc.com!

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