



Natural Treatment Systems

Session 5

FREE Zoom—Training Session

Explains the components and performance of ponds, lagoons and various types of land application systems.

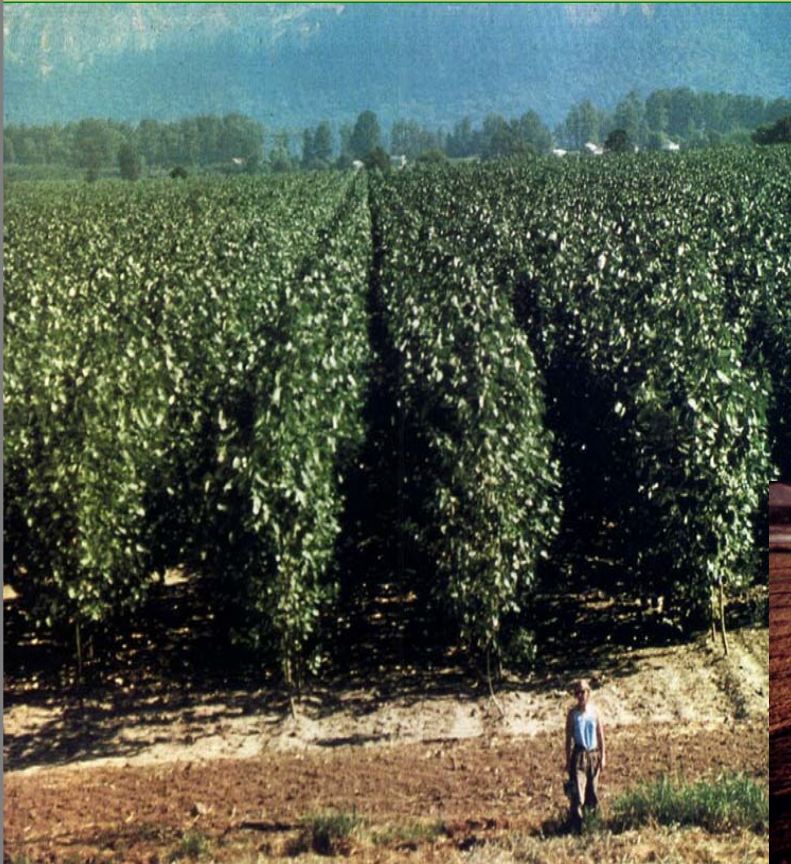
Includes: Presents the advantageous and disadvantages of operating natural versus mechanical treatment systems.

Learn how to incorporate “Natural” systems as an integral part of a wastewater treatment and reuse strategy. This session is especially suited for small to moderate sized facilities where land may be available. Natural systems include alternatives which depend primarily on natural biological reactions for treatment rather than relying on the use of mechanical equipment or the addition of chemicals. Presented are the basics of natural systems. Learn what can be expected from natural systems and where the limitations are. Presented are case history information on natural systems.

Answer these Example Questions:

1. What are the advantages and disadvantages of using stabilization ponds?
2. How can algae and duckweed be controlled in natural systems?
3. Are wetlands or aquatic plants affective in producing high quality effluent?
4. What are acceptable application rates for rapid infiltration ponds, tree plantation and irrigation systems?
5. Where are exemplary case histories using natural treatment systems and how are they performing?

Example Slides: Tree Plantations, Overland Flow Irrigation and Ponds



Land-Based Natural Systems

5 – Irrigation (Golf & Other)

6 – Subsurface (Drainfields)

7 – Other Popular Systems

- a) Overland Flow
- b) Rapid Infiltration
- c) Tree Plantations



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