

3PM™ PROCESS

*Pollution Prevention and Profit from
Manure Process*

Produces humic rich fertilizer

*Eliminates odor, pathogens and
viruses from manures;*

*Modular design, applicable for small to
large scale operations*

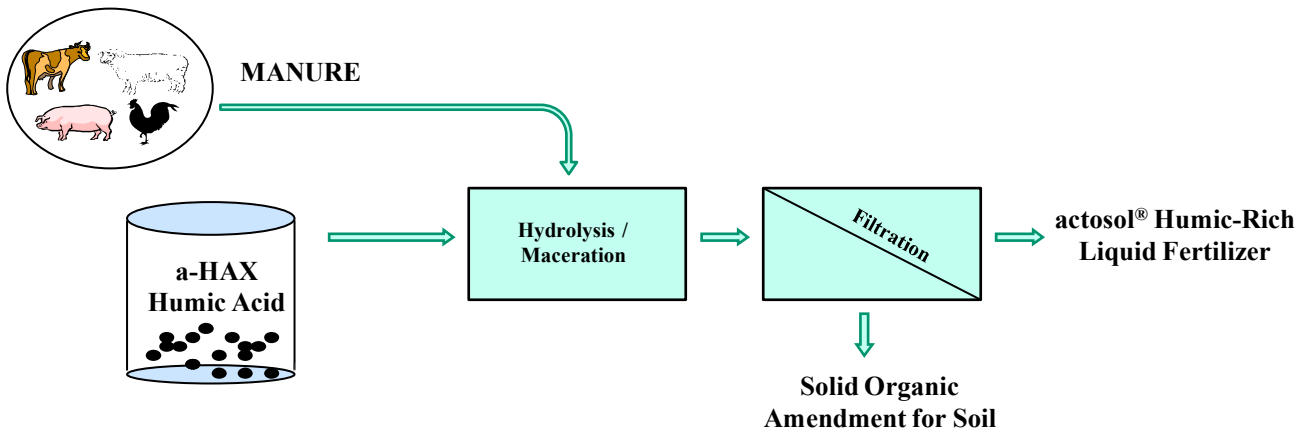
Converts problem into economic opportunity



ARCTECH

Preserving tomorrow's world... today

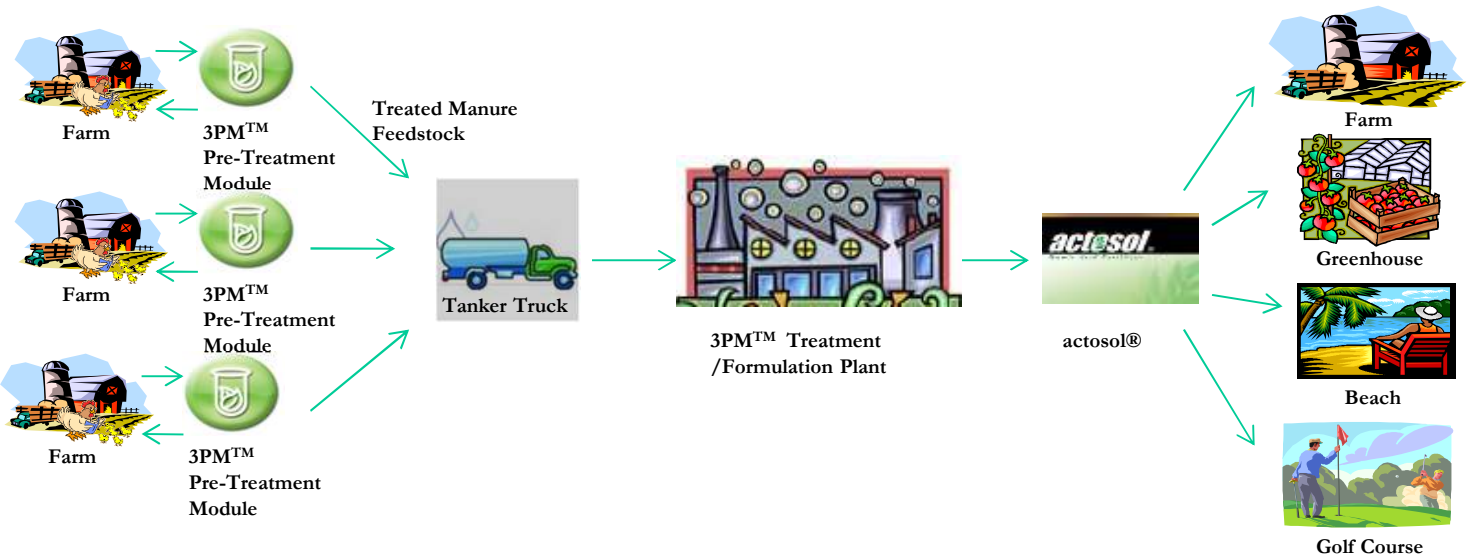
3PM™ is an “outside the box”, innovative process that simultaneously de-odorizes, and macerates particulates, and completely converts animal wastes (e.g., chicken manure) into humic rich fertilizer. The use of natural organic matter derived a-HAX™ humic acid in this Process is the unique innovation that sets 3PM™ apart from any other process that also produces fertilizer from animal wastes. Preliminary economic analysis even for a small 0.25 to 0.5 ton per day processing plant, shows the process to be economical due to effective, high value humic acid fertilizer. A generalized flow scheme of the 3PM™ process is as follows:



Pre-Treatment at the Farm

Final Treatment/Formulation

Distribution



1. Manure is treated with a-HAX™ at the farm

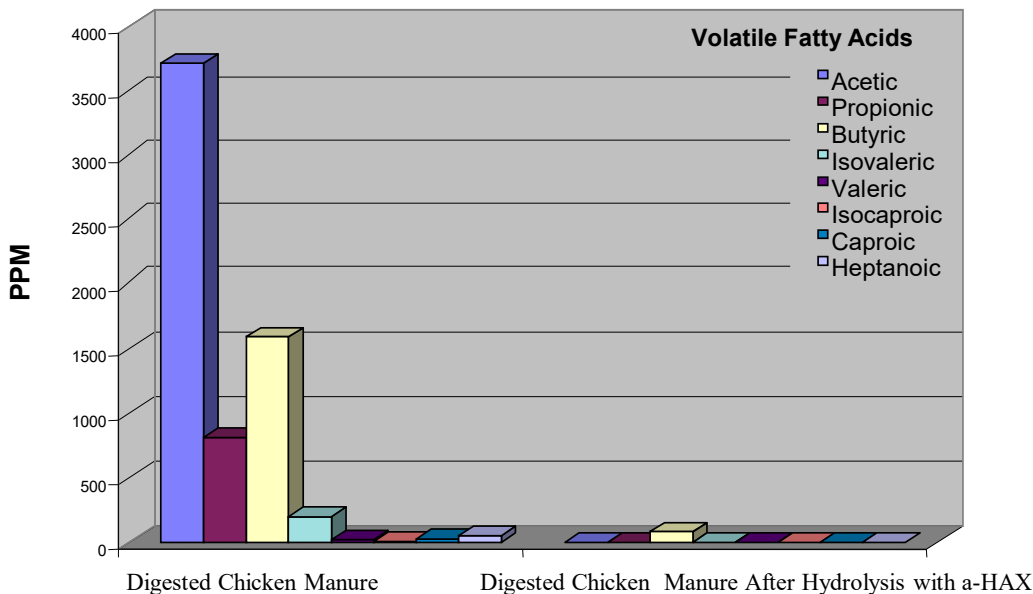
2. Taken to a 3PM™ plant for processing into fertilizer (actosol®)

3. Distribute to the regional distribution facilities where it is stored

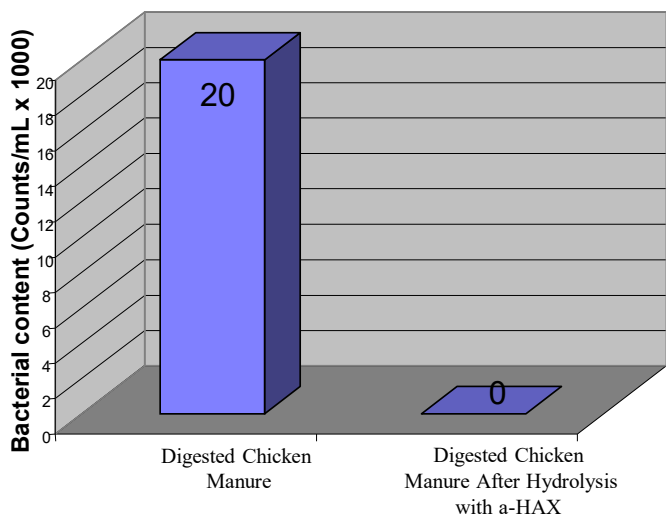
4. It is distributed to markets: farms, greenhouses, beach, (sand dune), and golf courses

FOR LARGER MANURE PRODUCTION FARMS A FULLY INTEGRATED 3PM™ FACILITY CAN BE INSTALLED AT THE FARM

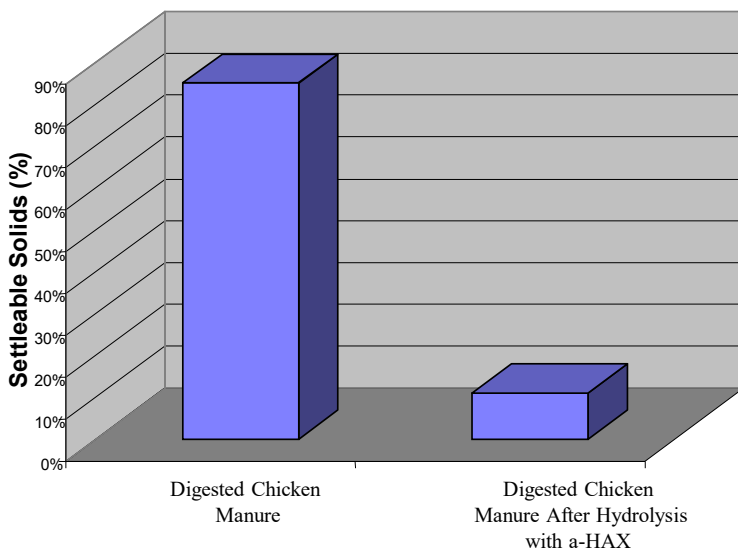
a-HAX Treatment Reduces Volatile Fatty Acids



a-HAX Treatment Destroys Bacteria



a-HAX Treatment Reduces Settable Solids



actosol® creates vegetation in sand dunes



Ocean City, MD

hydroseed mix

hydroseed mix plus actosol®



6 weeks growth, Virginia Tech., testing

ARCTECH, Inc. is a diversified company that provides technologies, services and products to meet growing needs of clean energy and for preserving the environment. Formed as a spin-off company from the Environmental Science and Technology division of the Atlantic Research Corporation, the ARCTECH group through 25 years of experience in energy, energetics, environment and agriculture, has created holistic solutions in these interrelated market sectors. The entrepreneurial scientists and engineers at ARCTECH have pioneered the use of vast resources of coal and coal-derived humic acid products such as actosol[®] fertilizer, HUMASORB[®], a multipurpose contaminant adsorber, Actodemil[®], for cost effective disposal of munition, and an overall encompassing MicGAS[™] technology for production of clean energy while reducing the build up of greenhouse CO₂ emissions. For additional information about our outside the box solutions, please visit our Web Site: www.arctech.com.

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