NRCS TECHNICAL AND FINANCIAL ASSISTANCE FOR ANAEROBIC DIGESTERS

William Boyd, PE
Leader, National Manure Management Technology Development Team
Greensboro, North Carolina
william.boyd@GNB.usda.gov
To access technical or financial assistance from NRCS you should contact your local USDA Service Center www.nrcs.usda.gov
Conservation Plan

Manure Management System

Anaerobic Digester
Conservation Plan

1. Identify the Problem
2. Determine the Objectives
3. Inventory the Resources
4. Analyze Resource Data
5. Formulate Alternative Solutions
6. Evaluate Alternative Solutions
7. Determine a Course of Action
8. Implement the Decisions
9. Evaluate the Results
Conservation Plan

Soil
Water
Air
Plant
Animal
Energy

Social – Cultural - Economic
Conservation Plan

Manure Management System

Production
Collection
Treatment
Storage
Transfer
Utilization
Conservation Plan

Manure Management System

Production
Collection
Treatment
Storage
Transfer
Utilization

Anaerobic Digester
Conservation Plan

Manure Management System

Production
Collection
Treatment
Storage
Transfer
Utilization

Anaerobic Digester
Nutrient Management Plan
ANAEROBIC DIGESTER

CODE 366

DEFINITION
A component of a waste management system that provides biological treatment in the absence of oxygen.

PURPOSE
For the treatment of manure and other byproducts of animal agricultural operations for one or more of the following reasons to prevent biogenic energy production.

CRITERIA

General Criteria Applicable to All Purposes

Feedstock Characteristics. The design of the digester needs to take feedstock properties into account. Extraneous material such as soil, sand, stones or fibrous bedding material (including clumps of straw), must be ground, removed, reduced, or otherwise handled. The total solids of feedstock influent to the digester shall be as required by the digester type and...
Anaerobic Digester

CPS Anaerobic Digester (366)

Plug Flow
Complete Mix
Covered Lagoon
Alternative Design
Anaerobic Digester

Technical Expertise

District Conservationist
State Office Technical Staff
National Technology Support Centers

Technical Service Providers
Conservation Partners
Conservation Plan

Manure Management System

Anaerobic Digester
To access technical or financial assistance from NRCS you should contact your local USDA Service Center
www.nrcs.usda.gov

United States Department of Agriculture
Natural Resources Conservation Service

Helping People Help the Land

An Equal Opportunity Provider and Employer