

## 6.0 Manure (Answers 1-10, 1-14 - 1-22)

### Purpose:

To provide effective and safe application of soil amendments while minimizing microbial hazards.

### Concern:

Animal manures and other soil amendments are a potential source of human pathogens, which can contaminate the soil and persist for many years.

### Contaminants Introduction

- Raw and composted manure and biosolid handling and application methods can introduce human pathogens.

### Policies and Procedures:

*List what you are doing to properly store and handle manure. These are some sample policies.*

All soil amendments, such as manure and biosolids, will be composted properly and handled in ways consistent with best management practices for reducing the risk of contamination to crop production areas and water sources.

1. State whether you use any of the following:
  - a. Raw: Either state *no raw compost used* or state your implemented best management practices with other applicable information, including timing of application (120 days prior to harvest), timing of incorporation, cover cropping practices, storage location, proximity to water source and likelihood of runoff, source and quality, commodity applied to, transport vehicles/equipment cleaning, and sanitation practices. All can help reduce the likelihood that contaminants can exist.
  - b. Composted manure or treated biosolids before land application: See more details below. State which methods you use and what steps you take to prevent contamination. No untreated biosolids will be used.
  - c. No manure or biosolids used: Select if you use other commercially available plant foods—a broad term that encompasses all other soil amendments used for nutrient and soil structure management.
2. Composted manure or treated manure
  - Passive – dependent on passage of time together with environmental factors such as temperature, moisture, UV irradiation.
  - Active – Specified monitoring and requirement for composting from NC DENR rules and regulations will be followed under the section 1400 Composting (<http://www.wastenotnc.org/swhome/rules.asp>). A copy of the composting process with temperature and time will be documented in Appendix 6.1 - Composting Log.

3. When manure or biosolids are purchased, specification analysis reports and other information from the supplier will be kept for each shipment, indicating that the proper procedures were followed, if applicable. These records will be made available in Appendix 5.1 - Composting log.
4. Composted manure will be stored in a site away from water sources, pesticide handling sites, or other possible recontamination sources. Storage sites will also be chosen to minimize runoff.
5. All manure application will be recorded, with location, type of soil amendment, date, rate, date applied, type of plant, and planting date included. These records will be kept in Appendix 6.2 - Manure Application Log.
6. All vehicles and equipment used for manure composting and spreading will be cleaned and sanitized before using.

**Appendix 6.1**

**Composted/Treated Manure Log**

Application Date	Field/Location	Rate	Source of Composted/Treated Manure	Documentation of sufficient composting level*

**\* Attach compost analysis if purchased or temperature and date taken if supplying your own compost**

