

**STATEMENT OF WORK
Composting Facility (317)
Michigan**

These deliverables apply to this individual practice. For other planned practice deliverables, refer to those specific Statements of Work.

DESIGN
Deliverables:

1. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan
 - b. List of required permits to be obtained by the client
 - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
 - d. Compliance with Michigan Department of Agriculture Regulations for Bodies of Dead Animals, Public Act 239, 1982, as amended September 1999
 - e. Compliance with recommendations found in Generally Accepted Agricultural and Mgmt. Practices (GAAMPS) for Manure Management and Utilization, and for Site Selection and Odor Control for New and Expanding Livestock Production Facilities
 - f. List of facilitating practices
 - g. Practice standard criteria related computations and analyses to develop plans and specifications including, but not limited to:
 - i. Geology and Soil Mechanics (NEM Subpart 531a)
 - ii. Capacity
 - iii. Structural, Mechanical and Appurtenances
 - iv. Maximize Clean Water Diversion
 - v. Environmental Considerations (e.g., odors, water quality, distance from wells, and other water sources)
 - vi. Bio-security
 - vii. Safety Considerations (NEM Part 503-Safety, Subpart A, 503.06 through 503.12)
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describe the requirements to install the practice and obtain necessary permits.
3. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
4. Operation and Maintenance Plan.
5. Certifications that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.03(b)(2)).
6. Design modifications during installation as required.

INSTALLATION
Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meet design and permit requirements.

CHECK OUT
Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. Drawings
 - c. Design data: physical data, functional requirements, site constraints, and soils/subsurface investigation report, where applicable
 - d. Final quantities: estimates of carbons source, bulking materials, moisture level, temperature control, turning/aeration, carbon to nitrogen ratios, expected compost period, and use of finished product (accordance with Michigan Nutrient Management Standard 590 based upon compost nutrient analysis)
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1)).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Composting Facility, 31.
- NRCS National Engineering Handbook, Part 637, Chapter 3, Composting
- NRCS National Engineering Manual (NEM)
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- Generally Accepted Agricultural and Management Practices for Manure Management and Utilization
- Generally Accepted Agricultural & Mgmt. Practices for Site Selection and Odor Control for New and Expanding Livestock Facilities
- Bodies of Dead Animals Public Act 239 of 1982, as amended 1999, MI Dept. of Agriculture, Animal Industry Division, Lansing MI