

STATEMENT OF WORK
Waste Storage Facility (313)
Minnesota

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

DESIGN

Deliverables:

1. Design Report (NEM Part 511, Subpart B Documentation, 511.11) Design report shall include, but is not limited to the following:
 - a. Summary of project objectives and work to be completed.
 - b. Current and planned animal numbers, storage period, waste characteristics and minimum storage volume.
 - c. Liner and water table control requirements.
 - d. Structural loading assumptions (such as wheel loads on or near tanks).
2. 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. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06). This requires that a Gopher State One-Call advisory be placed on the plans. The required wording is: "*State law and NRCS policy require that the excavator contact Gopher State One-Call at (800)252-1166 for utility locations 48 hours prior to the start of excavation work*".
 - b. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Geology and Soil Mechanics.
 - ii. Storage Volume and Maximum Operating Level.
 - iii. Structural, Mechanical and Appurtenances.
 - iv. Feedlot Runoff Control
 - v. Environmental Considerations (e.g. liner failure, location, breaching, air quality).
 - vi. Safety Considerations.
3. Adequate plan view, profiles, cross sections, details, and specifications to ensure that the project can be properly constructed and secure permits.
 - a. A plan view of the site which includes but is not limited to the following items:
 - i. Location of outdoor lots and practices to be installed
 - ii. Soil boring locations and elevations
 - iii. Water well locations
 - iv. Identify any outdoor lots or storage facilities to be abandoned
 - v. Adequate topographic detail to show how both clean and contaminated runoff will be addressed when this is a factor on the design.
 - vi. Agitation and pump-out locations.
4. Certification that the design meets practice standard criteria and complies with applicable laws and regulations. In addition to the certification required by state law the following statement is required: "*To the best of my professional knowledge, judgment, and belief, these plans meet applicable NRCS standards.*" (NEM Subpart A, 505.03(b)(2))
5. An Engineer's Cost Estimate is not required, however it is recommended to help the owner evaluate contractor proposals.
6. Inspection Plan
 - a. The inspection plan must describe the type and frequency of testing and inspection and the qualifications of the person doing the work. (NEM Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.33)
7. Operation and Maintenance Plan

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INSTALLATION

Deliverables

1. Documentation of pre-construction conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to drawings and specifications including applicable layout notes.
4. Installation inspection documentation which meets the requirements of the inspection plan. (Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.33)
5. Documentation for any significant design modifications made during installation.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation. Examples include construction site erosion control, evidence of cultural resources, etc.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. As-built drawings
 - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1)). The required wording is *"To the best of my professional knowledge, belief, and judgment, the installed practice meets NRCS standards."*
3. Completion report in accordance with permit requirements.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Waste Storage Facility, 313.
- NRCS Agricultural Waste Management Field Handbook (AWMFH)
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook