



IOWA DEPARTMENT OF NATURAL RESOURCES

LEADING IOWANS IN CARING FOR OUR NATURAL RESOURCES

Iowa Wastewater Facilities Design Standards Update

Chapter 11 – Project Submittals

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Ch. 11 - Proposed Changes

- **Section 11.1.1 - Exceptions from a Permit**
 - **Replacement done with the ~~exact~~ same methods, materials, capacities and design considerations as the original construction**
 - **Sanitary Sewer Service Connections, except the connections to a proposed I/A Sanitary Sewer will be reviewed for approval**
 - **Industrial Pretreatment, except Lagoons**

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- **Section 11.1.1 - Exceptions from a Permit (continued)**
 - **Holding Tanks for wastewater from a Single Property Unit, except Lagoons**
 - **Alterations rectifying imminent Public Health and Safety Emergencies**
 - **With approved Standard Specifications**
 - **CIPP lining**
 - **Cementitious Manhole Liners**
 - **Spot Sanitary Sewer Repair**

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- **Section 11.1.2 – Engineering Services**
 - **Amendments to a FP should be submitted 90 days before desired action**
- **Section 11.1.3 – Application for a Permit**
 - **All required permit application forms for minor projects and projects other than minor projects will be listed**
 - **The fee form will be mentioned**
 - **Two copies of the FP will be accepted**

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- **Section 11.1.3 – Application for a Permit (continued)**
 - **Depending on the scope of the FP, a letter report with Schedule A will be accepted by the Department**
 - **Two sets of P&S will be accepted**
 - **One set of the P&S should be suitable for scanning**
 - **DNR's wastewater construction permitting process manual is referenced**

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- **Section 11.2 - Engineering Reports or Facility Plans**
 - **A cross reference to Section 18C.2 is provided for soils information requirements involving lagoon construction**
 - **Supplemental information addressing Section 14.4.3 will be requested where innovative technologies are proposed**
 - **General references to the EPA construction grants program will be deleted**
 - **General references to the CWSRF loan program will be added**

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- **Section 11.2.8.1 – Existing Collection System**
 - **Where a collection system is evaluated, maps of the existing sewers shall be provided**
 - **Where the peak week flow is greater than 275 gpcd and all inflow has been eliminated, collection systems should be surveyed to determine if reconstruction is warranted**
 - **Where the peak week flow is less than 275 gpcd, not less than 2 percent of the collection system should be reconstructed or replaced annually**

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- **Section 11.2.9.2 - Design Wastewater Characteristics**
 - **The treatment agreement forms for significant industrial users are referenced**
- **Section 11.2.9.5 – Alternatives**
 - **The engineering report shall describe each alternative**

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- **Section 11.2.9.6 - Selected Process and Site**
 - **Identify and justify the outfall location**
- **Section 11.2.10 - Combined Sewer Studies**
 - **Where sizing of a wet weather equalization basin must be minimized, a plant hydraulic capacity approaching the MWW flow is recommended.**
 - **Return flows to the treatment plant in a timely manner during off-peak periods or provide a plant large enough to handle all flows.**

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- **Section 11.2.11 - Appendices**
 - **Include technical information and design criteria, as appropriate**
- **Section 11.2.11.3 - Process Diagrams**
 - **Include flow measurement and sampling**
- **Section 11.3.4.3 - Detailed Plans**
 - **As necessary, detailed plans should show existing and design sludge storage volumes**

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- **Section 11.4.2 - Standard Specifications**
 - **Two copies of proposed revisions to approved standard specifications will be acceptable**
 - **SUDAS may be incorporated into the P&S by reference without adoption**
- **Section 11.5 - Revisions to Approved Plans and Specifications**
 - **Two copies of change orders will be acceptable**

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- **Section 11.6 – Operation and Maintenance Manuals**
 - **O&M manuals shall be submitted to the Field Office no later than 12 months after the start of operation**
 - **O&M manuals and amendments to an existing O&M must be approved by the engineer before submission to the Field Office**