



Design Criteria for Review of Sewage Works Construction Plans and Documents



Effective Date: July 20, 2020

Document No.

DWR-NPDES-SOP-G-05-WW Design Criteria Table of Contents-072020

**Department of Environment and Conservation
Division of Water Resources**

<https://www.tn.gov/environment/program-areas/wr-water-resources-home.html>



DWR-NPDES-SOP-G-05-WW Design Criteria Table of Contents-072020
Design Criteria for Review of Sewage Works Construction Plans and Documents
Table of Contents

THIS PAGE INTENTIONALLY LEFT BLANK



DWR-NPDES-SOP-G-05-WW Design Criteria Table of Contents-072020
Design Criteria for Review of Sewage Works Construction Plans and Documents
Table of Contents

DISCLAIMER: This document is guidance only and does not create legal rights or obligations. Agency decisions in any particular case will be made applying applicable laws and regulations to the specific facts. Mention of trade names or commercial products does not constitute an indorsement or recommendation for use.

EFFECTIVE DATE: JULY 20, 2020

SIGNATURES:

A handwritten signature in blue ink that reads "Jennifer Dodd".

Jennifer Dodd
Director, Division of Water Resources

A handwritten signature in blue ink that reads "Angela Jones, PE".

Angela Jones, PE
Drafter / Preparer



DWR-NPDES-SOP-G-05-WW Design Criteria Table of Contents-072020
Design Criteria for Review of Sewage Works Construction Plans and Documents
Table of Contents

DESIGN CRITERIA FOR REVIEW OF SEWAGE WORKS
CONSTRUCTION PLANS AND DOCUMENTS
TABLE OF CONTENTS (072020)

		<u>PAGE</u>
CHAPTER 1	General Engineering Requirements (110117) App 1-A: Current Emphasis in Design Criteria App 1-B: Bibliography App 1-C: Integration of Permitting and Plans Review by Rule App 1-D: Specific Submittal Guidance by Phase and Project Type App 1-E: Preliminary Engineering Report (PER) Guidance App 1-F: Corrective Action Plan/Engineering Report (CAP/(P)ER) Guidance App 1-G: Construction Document Fees Guidance	1-1
CHAPTER 2	Collection Systems (072020) App 2-A: Design Basis for Wastewater Flow and Loadings App 2-B: Final Design Submission for Collection System Projects Review Guidance - Checklist App 2-C: Sewer Integrity Metrics App 2-D: Bibliography	2-1
CHAPTER 3	Laboratories, Personnel, Maintenance Facilities (040196) And Safety Design App 3-A: On-site Checklist	3-1
CHAPTER 4	Preliminary and Pretreatment Facilities (040196)	4-1
CHAPTER 5	Clarifiers (040961) (to be renamed: Clarifiers and Membranes)	5-1
CHAPTER 6	Fixed Film Reactors (040196)	6-1
CHAPTER 7	Activated Sludge (022696)	7-1
CHAPTER 8	Nitrification (022696)	8-1
CHAPTER 9	Ponds and Aerated Lagoons (022696)	9-1
CHAPTER 10	Disinfection (080495)	10-1
CHAPTER 11	Tertiary Treatment/Advanced Wastewater Treatment (082312)	11-1



DWR-NPDES-SOP-G-05-WW Design Criteria Table of Contents-072020
Design Criteria for Review of Sewage Works Construction Plans and Documents
Table of Contents

CHAPTER 12	Sludge Processing and Disposal (040196)	12-1
CHAPTER 13	Plant Flow Measurements and Sampling (040196)	13-1
CHAPTER 14	Instrumentation, Control and Electrical Systems (040196)	14-1
CHAPTER 15	Small Alternative Wastewater Systems (031210) App 15-A: Recirculation Tank/Pump System Example	15-1
CHAPTER 16	Design Guidelines for Wastewater Treatment Systems Using Spray Irrigation (012710)	16-1
CHAPTER 17	Design Guidelines for Wastewater Dispersal Using Drip Irrigation (012710) App 17-A: Hydraulic Values & Conversion Factors App 17-B: Example Hydraulic & Nutrient Loading Calculations App 17-C: Derivation of Conversion Factor for Eqn.17-2	17-1
CHAPTER 18	Reserved (Deleted: Collection System Rehabilitation)	18-1
CHAPTER 19	Reserved (Future: Beneficial Re-Use Systems) (TBA) App 19-B: Bibliography Chapter 19 (TBA)	19-1