

ENVIRONMENTAL PROTECTION COMMISSION[567]

Former Water, Air and Waste Management[900], renamed by 1986 Iowa Acts, chapter 1245, Environmental Protection Commission under the “umbrella” of the Department of Natural Resources.

TITLE I
GENERAL

CHAPTER 1**OPERATION OF ENVIRONMENTAL PROTECTION COMMISSION**

- 1.1(17A,455A) Scope
- 1.2(17A,455A) Time of meetings
- 1.3(17A,455A) Place of meetings
- 1.4(17A,455A) Notification of meetings
- 1.5(17A,455A) Attendance and participation by the public
- 1.6(17A,455A) Quorum and voting requirements
- 1.7(17A,455A) Conduct of meeting
- 1.8(17A,455A) Minutes, transcripts, and recordings of meetings
- 1.9(17A,455A) Officers and duties
- 1.10(17A,455A) Election and succession of officers
- 1.11(68B) Sales of goods and services

CHAPTER 2**PUBLIC RECORDS AND FAIR INFORMATION PRACTICES**

(Uniform Rules)

- 2.1(17A,22) Adoption by reference

CHAPTER 3**SUBMISSION OF INFORMATION AND COMPLAINTS—INVESTIGATIONS**

- 3.1(17A,455B) Adoption by reference

CHAPTER 4**AGENCY PROCEDURE FOR RULE MAKING**

- 4.1(17A) Adoption by reference

CHAPTER 5**PETITIONS FOR RULE MAKING**

- 5.1(17A) Adoption by reference

CHAPTER 6**DECLARATORY ORDERS**

- 6.1(17A) Adoption by reference

CHAPTER 7**RULES OF PRACTICE IN CONTESTED CASES**

- 7.1(17A) Adoption by reference

CHAPTER 8**CONTRACTS FOR PUBLIC IMPROVEMENTS AND PROFESSIONAL SERVICES**

- 8.1(17A) Adoption by reference

CHAPTER 9**DELEGATION OF CONSTRUCTION PERMITTING AUTHORITY**

- 9.1(455B) Scope
- 9.2(455B,17A) Forms
- 9.3(455B) Procedures
- 9.4(455B) Criteria for authority

CHAPTER 10
ADMINISTRATIVE PENALTIES

- 10.1(455B) Scope
- 10.2(455B) Criteria for screening and assessing administrative penalties
- 10.3(455B) Assessment of administrative penalties

CHAPTER 11
TAX CERTIFICATION OF POLLUTION CONTROL OR RECYCLING PROPERTY

- 11.1(427) Scope
- 11.2(427,17A) Form
- 11.3(427) Time of submission
- 11.4(427) Notice
- 11.5(427) Issuance
- 11.6(427) Criteria for determining eligibility

CHAPTER 12
ENVIRONMENTAL SELF-AUDITS

- 12.1(455K) General
- 12.2(455K) Notice of audit
- 12.3(455K) Request for extension
- 12.4(455K) Disclosure of violation

CHAPTER 13
WAIVERS OR VARIANCES FROM ADMINISTRATIVE RULES

- 13.1(17A) Adoption by reference
- 13.2(17A) Report to commission

CHAPTER 14
ENVIRONMENTAL COVENANTS

- 14.1(455B,455H) Definitions
- 14.2(455B,455H) Environmental covenants
- 14.3(455B,455H) Supporting documentation
- 14.4(455B,455H) Recording and approval
- 14.5(455B,455H) Mandatory provisions
- 14.6(455B,455H) Optional provisions
- 14.7(455B,455H) Modification and termination
- 14.8(455B,455H) Signatories to the environmental covenant
- 14.9(455B,455H) Notice

CHAPTER 15
CROSS-MEDIA ELECTRONIC REPORTING

- 15.1(455B,554D) Purpose

CHAPTER 16
REVOCATION, SUSPENSION, AND NONRENEWAL OF LICENSE
FOR FAILURE TO PAY STATE LIABILITIES

- 16.1(272D,261) Purpose and use
- 16.2(272D,261) Definitions
- 16.3(272D,261) Requirements of the department
- 16.4(272D,261) No administrative appeal of the department's action
- 16.5(272D,261) District court hearing

CHAPTERS 17 to 19
Reserved

TITLE II
AIR QUALITY

CHAPTER 20

SCOPE OF TITLE—DEFINITIONS—FORMS—RULES OF PRACTICE

- 20.1(455B,17A) Scope of title
- 20.2(455B) Definitions
- 20.3(455B) Air quality forms generally

CHAPTER 21
COMPLIANCE

- 21.1(455B) Compliance schedule
- 21.2(455B) Variances
- 21.3(455B) Emission reduction program
- 21.4(455B) Circumvention of rules
- 21.5(455B) Evidence used in establishing that a violation has or is occurring
- 21.6(455B) Temporary electricity generation for disaster situations

CHAPTER 22
CONTROLLING POLLUTION

- 22.1(455B) Permits required for new or existing stationary sources
- 22.2(455B) Processing permit applications
- 22.3(455B) Issuing permits
- 22.4(455B) Special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)
- 22.5(455B) Special requirements for nonattainment areas
- 22.6(455B) Nonattainment area designations
- 22.7(455B) Alternative emission control program
- 22.8(455B) Permit by rule
- 22.9(455B) Special requirements for visibility protection
- 22.10(455B) Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment
- 22.11 to 22.99 Reserved
- 22.100(455B) Definitions for Title V operating permits
- 22.101(455B) Applicability of Title V operating permit requirements
- 22.102(455B) Source category exemptions
- 22.103(455B) Insignificant activities
- 22.104(455B) Requirement to have a Title V permit
- 22.105(455B) Title V permit applications
- 22.106(455B) Title V permit fees
- 22.107(455B) Title V permit processing procedures
- 22.108(455B) Permit content
- 22.109(455B) General permits
- 22.110(455B) Changes allowed without a Title V permit revision (off-permit revisions)
- 22.111(455B) Administrative amendments to Title V permits
- 22.112(455B) Minor Title V permit modifications
- 22.113(455B) Significant Title V permit modifications
- 22.114(455B) Title V permit reopenings
- 22.115(455B) Suspension, termination, and revocation of Title V permits
- 22.116(455B) Title V permit renewals
- 22.117 to 22.119 Reserved
- 22.120(455B) Acid rain program—definitions
- 22.121(455B) Measurements, abbreviations, and acronyms

22.122(455B)	Applicability
22.123(455B)	Acid rain exemptions
22.124	Reserved
22.125(455B)	Standard requirements
22.126(455B)	Designated representative—submissions
22.127(455B)	Designated representative—objections
22.128(455B)	Acid rain applications—requirement to apply
22.129(455B)	Information requirements for acid rain permit applications
22.130(455B)	Acid rain permit application shield and binding effect of permit application
22.131(455B)	Acid rain compliance plan and compliance options—general
22.132	Reserved
22.133(455B)	Acid rain permit contents—general
22.134(455B)	Acid rain permit shield
22.135(455B)	Acid rain permit issuance procedures—general
22.136(455B)	Acid rain permit issuance procedures—completeness
22.137(455B)	Acid rain permit issuance procedures—statement of basis
22.138(455B)	Issuance of acid rain permits
22.139(455B)	Acid rain permit appeal procedures
22.140(455B)	Permit revisions—general
22.141(455B)	Permit modifications
22.142(455B)	Fast-track modifications
22.143(455B)	Administrative permit amendment
22.144(455B)	Automatic permit amendment
22.145(455B)	Permit reopenings
22.146(455B)	Compliance certification—annual report
22.147	Reserved
22.148(455B)	Sulfur dioxide opt-ins
22.149 to 22.199	Reserved
22.200(455B)	Definitions for voluntary operating permits
22.201(455B)	Eligibility for voluntary operating permits
22.202(455B)	Requirement to have a Title V permit
22.203(455B)	Voluntary operating permit applications
22.204(455B)	Voluntary operating permit fees
22.205(455B)	Voluntary operating permit processing procedures
22.206(455B)	Permit content
22.207(455B)	Relation to construction permits
22.208(455B)	Suspension, termination, and revocation of voluntary operating permits
22.209(455B)	Change of ownership for facilities with voluntary operating permits
22.210 to 22.299	Reserved
22.300(455B)	Operating permit by rule for small sources

CHAPTER 23

EMISSION STANDARDS FOR CONTAMINANTS

23.1(455B)	Emission standards
23.2(455B)	Open burning
23.3(455B)	Specific contaminants
23.4(455B)	Specific processes
23.5(455B)	Anaerobic lagoons
23.6(455B)	Alternative emission limits (the “bubble concept”)

CHAPTER 24
EXCESS EMISSION

- 24.1(455B) Excess emission reporting
- 24.2(455B) Maintenance and repair requirements

CHAPTER 25
MEASUREMENT OF EMISSIONS

- 25.1(455B) Testing and sampling of new and existing equipment
- 25.2(455B) Continuous emission monitoring under the acid rain program
- 25.3(455B) Mercury emissions testing and monitoring

CHAPTER 26
PREVENTION OF AIR POLLUTION EMERGENCY EPISODES

- 26.1(455B) General
- 26.2(455B) Episode criteria
- 26.3(455B) Preplanned abatement strategies
- 26.4(455B) Actions taken during episodes

CHAPTER 27
CERTIFICATE OF ACCEPTANCE

- 27.1(455B) General
- 27.2(455B) Certificate of acceptance
- 27.3(455B) Ordinance or regulations
- 27.4(455B) Administrative organization
- 27.5(455B) Program activities

CHAPTER 28
AMBIENT AIR QUALITY STANDARDS

- 28.1(455B) Statewide standards

CHAPTER 29
QUALIFICATION IN VISUAL DETERMINATION OF THE OPACITY OF EMISSIONS

- 29.1(455B) Methodology and qualified observer

CHAPTER 30
Reserved

CHAPTER 31
NONATTAINMENT AREAS

- 31.1(455B) Permit requirements relating to nonattainment areas
- 31.2(455B) Conformity of general federal actions to the Iowa state implementation plan or federal implementation plan

CHAPTER 32
ANIMAL FEEDING OPERATIONS FIELD STUDY

- 32.1(455B) Animal feeding operations field study
- 32.2(455B) Definitions
- 32.3(455B) Exceedance of the health effects value (HEV) for hydrogen sulfide
- 32.4(455B) Exceedance of the health effects standard (HES) for hydrogen sulfide
- 32.5(455B) Iowa Air Sampling Manual

CHAPTER 33
SPECIAL REGULATIONS AND CONSTRUCTION PERMIT REQUIREMENTS
FOR MAJOR STATIONARY SOURCES—PREVENTION OF SIGNIFICANT
DETERIORATION (PSD) OF AIR QUALITY

33.1(455B)	Purpose
33.2	Reserved
33.3(455B)	Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)
33.4 to 33.8	Reserved
33.9(455B)	Plantwide applicability limitations (PALs)
33.10(455B)	Exceptions to adoption by reference

CHAPTER 34
PROVISIONS FOR AIR QUALITY EMISSIONS TRADING PROGRAMS

34.1(455B)	Purpose
34.2 to 34.199	Reserved
34.200(455B)	Provisions for air emissions trading and other requirements for the Clean Air Interstate Rule (CAIR)
34.201(455B)	CAIR NOx annual trading program general provisions
34.202(455B)	CAIR designated representative for CAIR NOx sources
34.203(455B)	Permits
34.204	Reserved
34.205(455B)	CAIR NOx allowance allocations
34.206(455B)	CAIR NOx allowance tracking system
34.207(455B)	CAIR NOx allowance transfers
34.208(455B)	Monitoring and reporting
34.209(455B)	CAIR NOx opt-in units
34.210(455B)	CAIR SO2 trading program
34.211 to 34.219	Reserved
34.220(455B)	CAIR NOx ozone season trading program
34.221(455B)	CAIR NOx ozone season trading program general provisions
34.222(455B)	CAIR designated representative for CAIR NOx ozone season sources
34.223(455B)	CAIR NOx ozone season permits
34.224	Reserved
34.225(455B)	CAIR NOx ozone season allowance allocations
34.226(455B)	CAIR NOx ozone season allowance tracking system
34.227(455B)	CAIR NOx ozone season allowance transfers
34.228(455B)	CAIR NOx ozone season monitoring and reporting
34.229(455B)	CAIR NOx ozone season opt-in units

CHAPTER 35
AIR EMISSIONS REDUCTION ASSISTANCE PROGRAM

35.1(455B)	Purpose
35.2(455B)	Definitions
35.3(455B)	Role of the department of natural resources
35.4(455B)	Eligible projects
35.5(455B)	Forms
35.6(455B)	Project selection
35.7(455B)	Funding sources
35.8(455B)	Type of financial assistance
35.9(455B)	Term of loans
35.10(455B)	Reduced award

- 35.11(455B) Fund disbursement limitations
- 35.12(455B) Applicant cost share
- 35.13(455B) Eligible costs
- 35.14(455B) Ineligible costs
- 35.15(455B) Written agreement
- 35.16(455B) Financial assistance denial

TITLE III

WITHDRAWAL DIVERSION, STORAGE AND USE OF WATER

DIVISION A

WATER WELL CONSTRUCTION: GENERAL STANDARDS AND REGISTRATION OF CONTRACTORS

CHAPTERS 36 and 37

Reserved

CHAPTER 38

PRIVATE WATER WELL CONSTRUCTION PERMITS

- 38.1(455B) Definitions
- 38.2(455B) Forms
- 38.3(455B) Permit requirement
- 38.4(455B) Form of application
- 38.5(455B) Fees
- 38.6(455B) Well maintenance and reconstruction
- 38.7(455B) Emergency permits
- 38.8(455B) Permit issuance and conditions
- 38.9(455B) Noncompliance
- 38.10(455B) Expiration of a permit
- 38.11(455B) Transferability
- 38.12(455B) Denial of a permit
- 38.13(455B) Appeal of a permit denial
- 38.14 Reserved
- 38.15(455B) Delegation of authority to county board of supervisors
- 38.16(455B) Concurrent authority of the department
- 38.17(455B) Revocation of delegation agreement

CHAPTER 39

REQUIREMENTS FOR PROPERLY PLUGGING ABANDONED WELLS

- 39.1(455B) Purpose
- 39.2(455B) Applicability
- 39.3(455B) Definitions
- 39.4(455B) Forms
- 39.5(455B) Abandoned well plugging schedule
- 39.6(455B) Abandoned well owner responsibilities
- 39.7(455B) Abandoned well plugging materials
- 39.8(455B) Abandoned well plugging procedures
- 39.9(455B) Designated agent
- 39.10(455B) Designation of standby wells
- 39.11(455B) Variances

DIVISION B
DRINKING WATER

CHAPTER 40

SCOPE OF DIVISION—DEFINITIONS—FORMS—RULES OF PRACTICE

40.1(455B)	Scope of division
40.2(455B)	Definitions
40.3(17A,455B)	Forms
40.4(17A,455B)	Public water supply construction permit application procedures
40.5(17A,455B)	Public water supply operation permit application procedures
40.6(455B)	Drinking water state revolving fund loan application procedures
40.7(455B)	Viability assessment procedures

CHAPTER 41
WATER SUPPLIES

41.1(455B)	Primary drinking water regulations—coverage
41.2(455B)	Biological maximum contaminant levels (MCL) and monitoring requirements
41.3(455B)	Maximum contaminant levels (MCLs) and monitoring requirements for inorganic contaminants other than lead or copper
41.4(455B)	Lead, copper, and corrosivity
41.5(455B)	Organic chemicals
41.6(455B)	Disinfection byproducts maximum contaminant levels and monitoring requirements
41.7	Reserved
41.8(455B)	Radionuclides
41.9 and 41.10	Reserved
41.11(455B)	Special monitoring
41.12(455B)	Alternative analytical techniques
41.13(455B)	Monitoring of interconnected public water supply systems
41.14(455B)	Department analytical results used to determine compliance
41.15(455B)	Monitoring of other contaminants

CHAPTER 42

PUBLIC NOTIFICATION, PUBLIC EDUCATION,
CONSUMER CONFIDENCE REPORTS, REPORTING,
AND RECORD MAINTENANCE

42.1(455B)	Public notification
42.2(455B)	Public education for lead action level exceedance
42.3(455B)	Consumer confidence reports
42.4(455B)	Reporting
42.5(455B)	Record maintenance

CHAPTER 43

WATER SUPPLIES—DESIGN AND OPERATION

43.1(455B)	General information
43.2(455B)	Permit to operate
43.3(455B)	Public water supply system construction
43.4(455B)	Certification of completion
43.5(455B)	Filtration and disinfection for surface water and influenced groundwater public water supply systems
43.6(455B)	Residual disinfectant and disinfection byproduct precursors
43.7(455B)	Lead and copper treatment techniques
43.8(455B)	Viability assessment

- 43.9(455B) Enhanced filtration and disinfection requirements for surface water and IGW systems serving at least 10,000 people
- 43.10(455B) Enhanced filtration and disinfection requirements for surface water and IGW systems serving fewer than 10,000 people

CHAPTER 44

DRINKING WATER STATE REVOLVING FUND

- 44.1(455B) Statutory authority
- 44.2(455B) Scope of title
- 44.3(455B) Purpose
- 44.4(455B) Definitions
- 44.5(455B) Set-asides
- 44.6(455B) Eligibility
- 44.7(455B) Project point ranking system (project priority list)
- 44.8(455B) Intended use plan
- 44.9(455B) Department initial approval of projects
- 44.10(455B) General administrative requirements
- 44.11 Reserved
- 44.12(455B) Construction phase and postconstruction phase requirements
- 44.13(455B) Sanctions
- 44.14(455B) Disputes

CHAPTERS 45 to 48

Reserved

CHAPTER 49

NONPUBLIC WATER SUPPLY WELLS

- 49.1(455B) Purpose
- 49.2(455B) Definitions
- 49.3(455B) Applicability
- 49.4(455B) General
- 49.5(455B) Variances
- 49.6(455B) Location of wells
- 49.7(455B) General construction requirements
- 49.8(455B) Types of well construction
- 49.9(455B) Material standards
- 49.10(455B) Well reconstruction
- 49.11(455B) Disposal of drilling mud
- 49.12(455B) Pumps and pumping equipment
- 49.13(455B) Drop pipe
- 49.14(455B) Pump wiring
- 49.15(455B) Pitless adapters and pitless units
- 49.16(455B) Well caps and seals
- 49.17(455B) Vents
- 49.18(455B) Underground piping
- 49.19(455B) Underground wiring
- 49.20(455B) Sampling faucets
- 49.21(455B) Hydropneumatic (pressure) tanks
- 49.22(455B) Electrical connections
- 49.23(455B) Interconnections and cross connections
- 49.24(455B) Backflow prevention for chemical injection systems for nonpotable water wells
- 49.25(455B) Filters and water treatment equipment
- 49.26(455B) Well disinfection

- 49.27(455B) Water sampling and analysis
- 49.28(455B) Abandonment of wells
- 49.29(455B) Closed circuit vertical heat exchangers

DIVISION C
WITHDRAWAL, DIVERSION AND STORAGE
OF WATER: WATER RIGHTS ALLOCATION

CHAPTER 50

SCOPE OF DIVISION—DEFINITIONS—FORMS—RULES OF PRACTICE

- 50.1(455B) Scope of division
- 50.2(455B) Definitions
- 50.3(17A,455B) Forms for withdrawal, diversion or storage of water
- 50.4(17A,455B) How to request a permit
- 50.5(455B) Initial screening of applications
- 50.6(17A,455B) Supporting information
- 50.7(17A,455B) Review of complete applications
- 50.8(17A,455B) Initial decision by the department
- 50.9(17A,455B) Appeal of initial decision

CHAPTER 51

WATER PERMIT OR REGISTRATION—WHEN REQUIRED

- 51.1(455B) Scope of chapter
- 51.2(455B) Storage (surface)
- 51.3(455B) Diversion from surface into aquifer
- 51.4(455B) Drain tile lines
- 51.5(455B) Cooling/heating systems
- 51.6(455B) Miscellaneous uses
- 51.7(455B) Excavation and processing of rock and gravel products
- 51.8(159) Agricultural drainage wells

CHAPTER 52

CRITERIA AND CONDITIONS FOR AUTHORIZING WITHDRAWAL,
DIVERSION AND STORAGE OF WATER

- 52.1(455B) Scope of chapter
- 52.2(455B) Conditions on permitted water uses
- 52.3(455B) Conditions on withdrawals from streams
- 52.4(455B) Conditions on withdrawals from groundwater sources
- 52.5(455B) Duration of permits for withdrawal or diversion of water
- 52.6(455B) Monitoring, recording and reporting of water use and effects on water source
- 52.7(455B) Modification, cancellation, and emergency suspension of permits
- 52.8(455B) Designated protected flows of streams
- 52.9(455B) Water conservation
- 52.10(455B) Priority allocation restrictions
- 52.11(455B) Plugging of abandoned wells
- 52.12 to 52.19 Reserved
- 52.20(455B) Water storage permits
- 52.21(455B) Permits to divert water to an agricultural drainage well

CHAPTER 53

PROTECTED WATER SOURCES — PURPOSES — DESIGNATION PROCEDURES —
INFORMATION IN WITHDRAWAL APPLICATIONS — LIMITATIONS —
LIST OF PROTECTED SOURCES

- 53.1(455B) Scope of chapter
- 53.2(455B) Designation of protected sources
- 53.3(455B) Purposes of designating a protected source
- 53.4(455B) Designation procedure
- 53.5(455B) Information requirements for applications to withdraw water from protected sources
- 53.6(455B) Conditions in permits for withdrawals of water from a protected source
- 53.7(455B) List of protected water sources

CHAPTER 54

CRITERIA AND CONDITIONS FOR PERMIT RESTRICTIONS OR COMPENSATION BY
PERMITTED USERS TO NONREGULATED USERS DUE TO WELL INTERFERENCE

- 54.1(455B) Scope of chapter
- 54.2(455B) Requirements for informal negotiations
- 54.3(455B) Failure to cooperate
- 54.4(455B) Well interference by proposed withdrawals
- 54.5(455B) Well interference by existing permitted uses
- 54.6(455B) Verification of well interference
- 54.7(455B) Settlement procedures
- 54.8(455B) Recurring complaints
- 54.9(455B) Variances
- 54.10(455B) Appeal procedures

CHAPTER 55

AQUIFER STORAGE AND RECOVERY:
CRITERIA AND CONDITIONS FOR AUTHORIZING STORAGE,
RECOVERY, AND USE OF WATER

- 55.1(455B) Statutory authority
- 55.2 Reserved
- 55.3(455B) Purpose
- 55.4(455B) Definitions
- 55.5(455B) Application processing
- 55.6(455B) Aquifer storage and recovery technical evaluation criteria

CHAPTERS 56 to 59

Reserved

TITLE IV

WASTEWATER TREATMENT AND DISPOSAL

CHAPTER 60

SCOPE OF TITLE—DEFINITIONS—FORMS—RULES OF PRACTICE

- 60.1(455B,17A) Scope of title
- 60.2(455B) Definitions
- 60.3(455B,17A) Forms
- 60.4(455B,17A) Application procedures and requirements generally

CHAPTER 61 WATER QUALITY STANDARDS

WATER QUALITY STANDARDS

61.1	Reserved
61.2(455B)	General considerations
61.3(455B)	Surface water quality criteria
61.4 to 61.9	Reserved

VOLUNTEER MONITORING DATA REQUIREMENTS

61.10(455B)	Purpose
61.11(455B)	Monitoring plan required
61.12(455B)	Use of volunteer monitoring data
61.13(455B)	Department audits of volunteer monitoring activities

CHAPTER 62

EFFLUENT AND PRETREATMENT STANDARDS: OTHER EFFLUENT LIMITATIONS OR PROHIBITIONS

62.1(455B)	Prohibited discharges
62.2(455B)	Exemption of adoption of certain federal rules from public participation
62.3(455B)	Secondary treatment information: effluent standards for publicly owned treatment works and semipublic sewage disposal systems
62.4(455B)	Federal effluent and pretreatment standards
62.5(455B)	Federal toxic effluent standards
62.6(455B)	Effluent limitations and pretreatment requirements for sources for which there are no federal effluent or pretreatment standards
62.7(455B)	Effluent limitations less stringent than the effluent limitation guidelines
62.8(455B)	Effluent limitations or pretreatment requirements more stringent than the effluent or pretreatment standards
62.9(455B)	Disposal of pollutants into wells
62.10(455B)	Effluent reuse

CHAPTER 63

MONITORING, ANALYTICAL AND REPORTING REQUIREMENTS

63.1(455B)	Guidelines establishing test procedures for the analysis of pollutants
63.2(455B)	Records of monitoring activities and results
63.3(455B)	Minimum self-monitoring requirements in permits
63.4(455B)	Effluent toxicity testing requirements in permits
63.5(455B)	Self-monitoring and reporting for animal feeding operations
63.6(455B)	Bypasses and upsets
63.7(455B)	Submission of records of operation
63.8(455B)	Frequency of submitting records of operation
63.9(455B)	Content of records of operation
63.10(455B)	Records of operation forms
63.11(455B)	Certification and signatory requirements in the submission of records of operation
63.12(455B)	Twenty-four-hour reporting
63.13(455B)	Planned changes
63.14(455B)	Anticipated noncompliance

CHAPTER 64

WASTEWATER CONSTRUCTION AND OPERATION PERMITS

64.1	Reserved
64.2(455B)	Permit to construct
64.3(455B)	Permit to operate

64.4(455B)	Issuance of NPDES permits
64.5(455B)	Notice and public participation in the individual NPDES permit process
64.6(455B)	Completing a Notice of Intent for coverage under a general permit
64.7(455B)	Terms and conditions of NPDES permits
64.8(455B)	Reissuance of operation and NPDES permits
64.9(455B)	Monitoring, record keeping and reporting by operation permit holders
64.10(455B)	Silvicultural activities
64.11 and 64.12	Reserved
64.13(455B)	Storm water discharges
64.14(455B)	Transfer of title or owner address change
64.15(455B)	General permits issued by the department
64.16(455B)	Fees
64.17(455B)	Validity of rules
64.18(455B)	Applicability

CHAPTER 65 ANIMAL FEEDING OPERATIONS

DIVISION I CONFINEMENT FEEDING OPERATIONS

65.1(459,459B)	Definitions
65.2(459,459B)	Minimum manure control requirements and reporting of releases
65.3(459,459B)	Requirements and recommended practices for land application of manure
65.4(459,459B)	Operation permit required
65.5(459,459B)	Departmental evaluation
65.6(459,459B)	Operation permits
65.7(459,459B)	Construction permits—required approvals, permits, determinations and declaratory orders
65.8(459,459B)	Construction
65.9(459,459B)	Preconstruction submittal requirements
65.10(459,459B)	Construction permit application review process, site inspections and complaint investigations
65.11(459,459B)	Confinement feeding operation and stockpile separation distance requirements
65.12(459,459B)	Exemptions and variances to confinement feeding operation and stockpile separation distance requirements and prohibition of construction on the one hundred year flood plain
65.13 and 65.14	Reserved
65.15(459,459B)	Manure storage structure design requirements
65.16(459,459B)	Manure management plan requirements
65.17(459,459B)	Manure management plan content requirements
65.18(459,459B)	Construction certification
65.19(459,459B)	Manure applicators certification
65.20(459,459B)	Manure storage indemnity fund
65.21(459,459B)	Transfer of legal responsibilities or title
65.22(459,459B)	Validity of rules
65.23 to 65.99	Reserved

DIVISION II OPEN FEEDLOT OPERATIONS

65.100(455B,459,459A)	Definitions
65.101(459A)	Minimum open feedlot effluent control requirements and reporting of releases
65.102(455B,459A)	NPDES permits required for CAFOs
65.103(455B,459A)	Departmental evaluation; CAFO designation; remedial actions
65.104(455B,459A)	NPDES permits

- 65.105(459A) Construction permits
- 65.106(459A) Construction
- 65.107(459A) Construction permit application
- 65.108(455B,459A) Water well separation distances for open feedlot operations
- 65.109(459A) Settled open feedlot effluent basins—investigation, design and construction requirements
- 65.110(459A) AT systems—design requirements
- 65.111(459A) Construction certification
- 65.112(459A) Nutrient management plan requirements
- 65.113(459A) Complaint investigations
- 65.114(455B,459A) Transfer of legal responsibilities or title

CHAPTER 66

PESTICIDE APPLICATION TO WATERS

- 66.1(455B) Aquatic pesticide

CHAPTER 67

STANDARDS FOR THE LAND APPLICATION OF SEWAGE SLUDGE

- 67.1(455B) Land application of sewage sludge
- 67.2(455B) Exclusions
- 67.3(455B) Sampling and analysis
- 67.4(455B) Land application program
- 67.5(455B) Special definitions
- 67.6(455B) Permit requirements
- 67.7(455B) Land application requirements for Class I sewage sludge
- 67.8(455B) Land application requirements for Class II sewage sludge
- 67.9(455B) Class III sewage sludge
- 67.10(455B) Sampling and analytical methods
- 67.11(455B) Pathogen treatment processes

CHAPTER 68

COMMERCIAL SEPTIC TANK CLEANERS

- 68.1(455B) Purpose and applicability
- 68.2(455B) Definitions
- 68.3(455B) Licensing requirements
- 68.4(455B) Licensing procedures
- 68.5(455B) Suspension, revocation and denial of license
- 68.6(455B) Licensee's obligations
- 68.7(455B) County obligations
- 68.8(455B) Application sites and equipment inspections
- 68.9(455B) Standards for commercial cleaning of private sewage disposal systems
- 68.10(455B) Standards for disposal

CHAPTER 69

PRIVATE SEWAGE DISPOSAL SYSTEMS

- 69.1(455B) General
- 69.2(455B) Time of transfer inspections
- 69.3(455B) Site analysis
- 69.4(455B) Requirements when effluent is discharged into surface water
- 69.5(455B) Requirements when effluent is discharged above the ground surface
- 69.6(455B) Requirements when effluent is discharged into the soil
- 69.7(455B) Building sewers
- 69.8(455B) Primary treatment—septic tanks

69.9(455B)	Secondary treatment—subsurface soil absorption systems
69.10(455B)	Mound systems
69.11(455B)	At-grade systems
69.12(455B)	Drip irrigation
69.13(455B)	Packed bed media filters
69.14(455B)	Aerobic treatment units
69.15(455B)	Constructed wetlands
69.16(455B)	Waste stabilization ponds
69.17(455B)	Requirements for impervious vault toilets
69.18(455B)	Requirements for portable toilets
69.19(455B)	Other methods of wastewater disposal
69.20(455B)	Disposal of septage from private sewage disposal systems
69.21(455B)	Experimental private sewage disposal systems
69.22(455B)	Variances

TITLE V
FLOOD PLAIN DEVELOPMENT

CHAPTER 70

SCOPE OF TITLE—DEFINITIONS—FORMS—RULES OF PRACTICE

70.1(455B,481A)	Scope of title
70.2(455B,481A)	Definitions
70.3(17A,455B,481A)	Forms
70.4(17A,455B,481A)	Requesting approval of flood plain development
70.5(17A,455B,481A)	Procedures for review of applications
70.6(17A,455B,481A)	Appeal of initial decision

CHAPTER 71

FLOOD PLAIN OR FLOODWAY DEVELOPMENT—
WHEN APPROVAL IS REQUIRED

71.1(455B)	Bridges, culverts, temporary stream crossings, and road embankments
71.2(455B)	Channel changes
71.3(455B)	Dams
71.4(455B)	Levees or dikes
71.5(455B)	Waste or water treatment facilities
71.6(455B)	Sanitary landfills
71.7(455B)	Buildings and associated fill
71.8(455B)	Pipeline crossings
71.9(455B)	Stream bank protective devices
71.10(455B)	Boat docks
71.11(455B)	Excavations
71.12(455B)	Miscellaneous structures, obstructions, or deposits not otherwise provided for in other rules
71.13(455B)	Animal feeding operation structures

CHAPTER 72

CRITERIA FOR APPROVAL

DIVISION I
SPECIAL CRITERIA FOR VARIOUS TYPES OF FLOOD PLAIN DEVELOPMENT

72.1(455B)	Bridges and road embankments
72.2(455B)	Channel changes
72.3(455B)	Dams
72.4(455B)	Levees or dikes
72.5(455B)	Buildings

72.6(455B)	Wastewater treatment facilities
72.7(455B)	Sanitary landfills
72.8(455B)	Water supply treatment facilities
72.9(455B)	Stream protective devices
72.10(455B)	Pipeline river or stream crossings
72.11(455B)	Miscellaneous construction
72.12	Reserved
72.13(455B)	Animal feeding operation structures
72.14 to 72.29	Reserved

DIVISION II
GENERAL CRITERIA

72.30(455B)	General conditions
72.31(455B)	Variance
72.32(455B)	Protected stream information
72.33 to 72.49	Reserved

DIVISION III
PROTECTED STREAM DESIGNATION PROCEDURE

72.50(455B)	Protected streams
72.51(455B)	Protected stream designation procedure
72.52(455B)	Protected stream declassification procedure

CHAPTER 73

USE, MAINTENANCE, REMOVAL, INSPECTIONS, AND SAFETY OF DAMS

DIVISION I
USE AND MAINTENANCE OF DAMS

73.1(109,455B)	Operating plan for dams with movable structures
73.2(109,455B)	Raising or lowering of impoundment levels
73.3 to 73.9	Reserved

DIVISION II
ABANDONMENT AND REMOVAL OF DAMS

73.10(109,455B)	Abandonment prohibited
73.11(109,455B)	Removal of dams
73.12 to 73.19	Reserved

DIVISION III
INSPECTION OF DAMS

73.20(109,455B)	Scope and purposes of dam safety inspection program
73.21(109,455B)	Types of inspections; when inspections are made
73.22(109,455B)	Duty of dam owner to maintain, investigate, inspect and report
73.23(109,455B)	Special inspections and investigations
73.24(109,455B)	Inspection by others
73.25(109,455B)	Access for inspections a condition of construction approval
73.26(109,455B)	Inspection reports
73.27 to 73.29	Reserved

DIVISION IV
DESIGNATION OF UNSAFE DAMS

73.30(109,455B)	Procedures for designation of a dam as unsafe
73.31(109,455B)	Criteria for designating a dam as unsafe
73.32(109,455B)	Agency action concerning an unsafe dam

CHAPTER 74

Reserved

CHAPTER 75

MANAGEMENT OF SPECIFIC FLOOD PLAIN AREAS

- 75.1(455B) Applicability and purposes of chapter
- 75.2(455B) Flooding characteristics
- 75.3(455B) Area of regulation
- 75.4(455B) Establishment of a floodway
- 75.5(455B) Minimum standards for flood plain and floodway uses
- 75.6(455B) Preexisting nonconforming development and associated uses
- 75.7(335,414,455B) Delegation of authority to local governments by approval of local regulations
- 75.8(335,414,455B) Review and approval of variances from local regulations
- 75.9(335,414,455B) Notice of proposed department flood plain management order or proposed local flood plain regulation

CHAPTER 76

FEDERAL WATER RESOURCE PROJECTS

- 76.1(455B) Referral of federal project
- 76.2(455B) Solicitation of comments
- 76.3(455B) Hearing
- 76.4(455B) Formulation of comments
- 76.5(455B) Transmittal of comments
- 76.6(455B) Other coordination

CHAPTERS 77 to 79

Reserved

TITLE VI

CERTIFICATION OF OPERATORS

CHAPTER 80

Reserved

CHAPTER 81

OPERATOR CERTIFICATION: PUBLIC WATER SUPPLY SYSTEMS
AND WASTEWATER TREATMENT SYSTEMS

- 81.1(455B) Definitions
- 81.2(455B) General
- 81.3(455B) Wastewater treatment plant grades
- 81.4(455B) Water treatment plant grades
- 81.5(455B) Water distribution system grades
- 81.6(455B) Grade A classification
- 81.7(455B) Operator education and experience qualifications
- 81.8(455B) Certification and examination fees
- 81.9(455B) Examinations
- 81.10(455B) Certification by examination
- 81.11(455B) Certification by reciprocity
- 81.12(455B) Restricted and temporary certification
- 81.13(455B) Certification renewal
- 81.14(455B,272C) Continuing education
- 81.15(455B) Upgrading of certificates
- 81.16(455B) Operator by affidavit
- 81.17(455B,272C) Disciplinary actions

CHAPTER 82 WELL CONTRACTOR CERTIFICATION

82.1(455B)	Definitions
82.2(455B)	General
82.3(455B)	Classification of well contractors
82.4 and 82.5	Reserved
82.6(455B)	Experience requirements
82.7(455B)	Certification and examination fees
82.8(455B)	Examinations
82.9(455B)	Certification by examination
82.10(455B)	Certification renewal
82.11(455B)	Continuing education
82.12(455B)	Certified well contractor obligations
82.13(455B)	Disciplinary actions
82.14(455B,272C)	Revocation of certificates

CHAPTER 83 LABORATORY CERTIFICATION

PART A GENERAL

83.1(455B)	Authority, purpose, and applicability
83.2(455B)	Definitions

PART B CERTIFICATION PROCESS

83.3(455B)	Application for laboratory certification
83.4(455B)	Procedure for initial certification for laboratories analyzing solid waste and contaminated site program parameters
83.5(455B)	Procedures for certification of new laboratories or changes in certification
83.6(455B)	Laboratory recertification
83.7(455B)	Criteria and procedure for provisional, suspended, and revoked laboratory certification

CHAPTERS 84 to 89 Reserved

TITLE VII *WATER POLLUTION CONTROL STATE REVOLVING FUND*

CHAPTER 90 SCOPE OF TITLE — DEFINITIONS — FORMS

90.1(455B)	Scope of title
90.2(455B)	Definitions
90.3(455B)	Forms

CHAPTER 91 CRITERIA FOR RATING AND RANKING PROJECTS FOR THE WATER POLLUTION CONTROL STATE REVOLVING FUND

91.1(455B)	Statutory authority
91.2(455B)	Scope of title
91.3(455B)	Purpose
91.4 and 91.5	Reserved
91.6(455B)	General information—priority rating system
91.7	Reserved
91.8(455B)	Project priority rating system

CHAPTER 92

CLEAN WATER STATE REVOLVING FUND

92.1(455B)	Statutory authority
92.2(455B)	Scope of title
92.3	Reserved
92.4(455B)	General policy
92.5	Reserved
92.6(455B)	Intended use plan management
92.7(455B)	Point source project procedures
92.8(455B)	Point source project requirements

CHAPTER 93

NONPOINT SOURCE POLLUTION CONTROL SET-ASIDE PROGRAMS

93.1(455B,466)	Statutory authority
93.2(455B,466)	Scope of title
93.3(455B,466)	Purpose
93.4(455B,466)	Onsite wastewater system assistance program
93.5(455B)	Livestock water quality facilities requirements
93.6(455B)	Local water protection project requirements
93.7(455B)	General nonpoint source project requirements

CHAPTERS 94 to 99

Reserved

TITLE VIII

*SOLID WASTE MANAGEMENT
AND DISPOSAL*

CHAPTER 100

SCOPE OF TITLE — DEFINITIONS — FORMS — RULES OF PRACTICE

100.1(455B,455D)	Scope of title
100.2(455B,455D)	Definitions
100.3(17A,455B)	Forms and rules of practice
100.4(455B)	General conditions of solid waste disposal
100.5(455B)	Disruption and excavation of sanitary landfills or closed dumps

CHAPTER 101

SOLID WASTE COMPREHENSIVE PLANNING REQUIREMENTS

101.1(455B,455D)	Purpose
101.2(455B,455D)	Definitions
101.3(455B,455D)	Waste management hierarchy
101.4(455B,455D)	Duties of cities and counties
101.5(455B,455D)	Contracts with permitted agencies
101.6(455B,455D)	State volume reduction and recycling goals
101.7(455B,455D)	Base year adjustment method
101.8(455B,455D)	Submittal of initial comprehensive plans and comprehensive plan updates
101.9(455B,455D)	Review of initial comprehensive plans and comprehensive plan updates
101.10(455B,455D)	Municipal solid waste and recycling survey
101.11(455B,455D)	Online database
101.12(455B,455D)	Solid waste comprehensive plan types
101.13(455B,455D)	Types of comprehensive plan submittals to be filed
101.14(455B,455D)	Fees for disposal of solid waste at sanitary landfills

CHAPTER 102 PERMITS

- 102.1(455B) Permit required
- 102.2(455B) Types of permits
- 102.3(455B) Applications for permits
- 102.4(455B) Preparation of plans
- 102.5(455B) Construction and operation
- 102.6(455B) Compliance with rule changes
- 102.7(455B) Amendments
- 102.8(455B) Transfer of title and permit
- 102.9(455B) Permit conditions
- 102.10(455B) Effect of revocation
- 102.11(455B) Inspection prior to start-up
- 102.12(455B) Primary plan requirements for all sanitary disposal projects
- 102.13(455B) Operating requirements for all sanitary disposal projects
- 102.14(455B) Emergency response and remedial action plans

CHAPTER 103 SANITARY LANDFILLS: COAL COMBUSTION RESIDUE

- 103.1(455B) Coal combustion residue landfills
- 103.2(455B) Emergency response and remedial action plans
- 103.3(455B) Coal combustion residue sanitary landfill financial assurance

CHAPTER 104 SANITARY DISPOSAL PROJECTS WITH PROCESSING FACILITIES

- 104.1(455B) Scope and applicability
- 104.2(455B) Dumping or holding floors or pits
- 104.3(455B) Compaction equipment
- 104.4(455B) Hammermills
- 104.5(455B) Hydropulping or slurring equipment
- 104.6(455B) Air classifiers
- 104.7(455B) Metals separation equipment
- 104.8(455B) Sludge processing
- 104.9(455B) Storage containers and facilities
- 104.10(455B) Operating requirements for all processing facilities
- 104.11(455B) Closure requirements
- 104.12 to 104.20 Reserved
- 104.21(455B) Specific design requirements
- 104.22(455B) Specific operating requirements for all recycling operations
- 104.23(455B) Recycling operations processing paper, cans, and bottles
- 104.24(455B) Closure requirements
- 104.25(455B) Operator certification
- 104.26(455D) Financial assurance for solid waste processing facilities

CHAPTER 105 ORGANIC MATERIALS COMPOSTING FACILITIES

- 105.1(455B,455D) General
- 105.2(455B,455D) Exemptions
- 105.3(455B,455D) General requirements for all composting facilities not exempt pursuant to 105.2(455B,455D)
- 105.4(455B,455D) Specific requirements for yard waste composting facilities
- 105.5(455B,455D) Small composting facilities receiving off-premises materials
- 105.6(455B,455D) Specific requirements for composting of dead farm animals

- 105.7(455B,455D) Permit requirements for solid waste composting facilities
- 105.8(455B,455D) Permit application requirements for solid waste composting facilities
- 105.9(455B,455D) Specific operating requirements for permitted solid waste composting facilities
- 105.10(455B,455D) Operator certification for permitted solid waste composting facilities
- 105.11(455B,455D) Record-keeping requirements for solid waste composting facilities
- 105.12(455B,455D) Reporting requirements for solid waste composting facilities
- 105.13(455B,455D) Closure requirements for solid waste composting facilities
- 105.14(455B,455D) Composting facility financial assurance
- 105.15(455B,455D) Variances

CHAPTER 106

CITIZEN CONVENIENCE CENTERS AND TRANSFER STATIONS

- 106.1(455B) Compliance
- 106.2(455B,455D) Definitions
- 106.3(455B) Citizen convenience center and transfer station permits
- 106.4(455B) Citizen convenience center permit application requirements
- 106.5(455B) Citizen convenience center operations
- 106.6(455B,455D) Citizen convenience center reporting requirements
- 106.7(455B) Citizen convenience center closure requirements
- 106.8(455B) Transfer station permit application requirements
- 106.9(455B) Transfer station siting and location requirements
- 106.10(455B) Transfer station design standards
- 106.11(455B) Transfer station operating requirements
- 106.12(455B) Temporary solid waste storage at transfer stations
- 106.13(455B,455D) Transfer station record-keeping requirements
- 106.14(455B,455D) Transfer station reporting requirements
- 106.15(455B) Solid waste transport vehicle construction and maintenance requirements
- 106.16(455B) Solid waste transport vehicle operation requirements
- 106.17(455B) Transfer station closure requirements
- 106.18(455B) Citizen convenience center and transfer station financial assurance
- 106.19(455B) Emergency response and remedial action plans

CHAPTER 107

BEVERAGE CONTAINER DEPOSITS

- 107.1(455C) Scope
- 107.2(455C) Definitions
- 107.3(455C) Labeling requirements
- 107.4(455C) Redemption centers
- 107.5(455C) Redeemed containers—use
- 107.6 Reserved
- 107.7(455C) Redeemed containers must be reasonably clean
- 107.8(455C) Interpretive rules
- 107.9(455C) Pickup and acceptance of redeemed containers
- 107.10(455C) Dealer agent lists
- 107.11(455C) Refund value stated on containers—exceptions
- 107.12(455C) Education
- 107.13(455C) Refusing payment when a distributor discontinues a specific beverage product
- 107.14(455C) Payment of refund value
- 107.15(455C) Sales tax on deposits
- 107.16(82GA,HF2700) Independent redemption center grant program

CHAPTER 108

BENEFICIAL USE DETERMINATIONS:

SOLID BY-PRODUCTS AS RESOURCES AND ALTERNATIVE COVER MATERIAL

- 108.1(455B,455D) Purpose
- 108.2(455B,455D) Applicability and compliance
- 108.3(455B,455D) Definitions
- 108.4(455B,455D) Universally approved beneficial use determinations
- 108.5(455B,455D) Application requirements for beneficial use determinations other than alternative cover material
- 108.6(455B,455D) Requirements for beneficial uses other than alternative cover material
- 108.7(455B,455D) Record-keeping and reporting requirements for beneficial use projects other than alternative cover material
- 108.8(455B,455D) Universally approved beneficial use determinations for alternative cover material
- 108.9(455B,455D) Beneficial use determination application requirements for alternative cover material
- 108.10(455B,455D) Beneficial use of alternative cover material and state goal progress
- 108.11(455B,455D) Revocation of beneficial use determinations

CHAPTER 109

SPECIAL WASTE AUTHORIZATIONS

- 109.1(455B,455D) Purpose
- 109.2(455B,455D) Special waste authorization required
- 109.3(455B,455D) Definitions
- 109.4 Reserved
- 109.5(455B,455D) Applications
- 109.6(455B,455D) Restrictions
- 109.7(455B,455D) Landfill responsibilities
- 109.8(455B,455D) Special waste generator responsibilities
- 109.9(455B,455D) Infectious waste
- 109.10(455B,455D) Other special wastes
- 109.11(455B,455D) Conditions and requirements for the disposal of general special wastes

CHAPTER 110

HYDROGEOLOGIC INVESTIGATION AND MONITORING REQUIREMENTS

- 110.1(455B) Applicability
- 110.2(455B) Hydrologic monitoring system planning requirements
- 110.3(455B) Soil investigation
- 110.4(455B) Hydrogeologic investigation
- 110.5(455B) Hydrologic monitoring system planning report requirements
- 110.6(455B) Evaluation of hydrogeologic conditions
- 110.7(455B) Monitoring system plan
- 110.8(455B) Sampling protocol
- 110.9(455B) Monitoring well maintenance performance reevaluation plan
- 110.10(455B) Monitoring well siting requirements
- 110.11(455B) Monitoring well/soil boring construction standards
- 110.12(455B) Sealing abandoned wells and boreholes
- 110.13(455B) Variance from design, construction, and operation standards

CHAPTER 111

Reserved

CHAPTER 112

SANITARY LANDFILLS: BIOSOLIDS MONOFILLS

112.1(455B)	Scope and applicability
112.2(455B)	Permit required
112.3(455B)	Types of permits
112.4(455B)	Applications for permits
112.5(455B)	Preparation of plans
112.6(455B)	Construction and operation
112.7(455B)	Compliance with rule changes
112.8(455B)	Amendments
112.9(455B)	Transfer of title and permit
112.10(455B)	Permit conditions
112.11(455B)	Effect of revocation
112.12(455B)	Inspection prior to start-up
112.13(455B)	Primary plan requirements for all sanitary disposal projects
112.14(455B)	Hydrologic monitoring system planning requirements
112.15(455B)	Soil investigation
112.16(455B)	Hydrogeologic investigation
112.17(455B)	Hydrologic monitoring system planning report requirements
112.18(455B)	Evaluation of hydrogeologic conditions
112.19(455B)	Monitoring system plan
112.20(455B)	Sampling protocol
112.21(455B)	Monitoring well maintenance and performance reevaluation plan
112.22(455B)	Monitoring well siting requirements
112.23(455B)	Monitoring well/soil boring construction standards
112.24(455B)	Sealing abandoned wells and boreholes
112.25(455B)	Variance from design, construction, and operation standards
112.26(455B)	General requirements for all sanitary landfills
112.27(455B)	Operating requirements for all sanitary disposal projects
112.28(455B)	Specific requirements for a sanitary landfill proposing to accept no solid waste other than municipal sewage sludge
112.29(455B)	Operator certification
112.30(455B)	Emergency response and remedial action plans
112.31(455B)	Biosolids monofill sanitary landfill financial assurance

CHAPTER 113

SANITARY LANDFILLS FOR MUNICIPAL

SOLID WASTE: GROUNDWATER PROTECTION SYSTEMS FOR THE DISPOSAL OF
NONHAZARDOUS WASTES

113.1(455B)	Purpose
113.2(455B)	Applicability and compliance
113.3(455B)	Definitions
113.4(455B)	Permits
113.5(455B)	Permit application requirements
113.6(455B)	Siting and location requirements for MSWLFs
113.7(455B)	MSWLF unit design and construction standards
113.8(455B)	Operating requirements
113.9(455B)	Environmental monitoring and corrective action requirements for air quality and landfill gas
113.10(455B)	Environmental monitoring and corrective action requirements for groundwater and surface water
113.11(455B,455D)	Record-keeping and reporting requirements

- 113.12(455B) Closure criteria
- 113.13(455B) Postclosure care requirements
- 113.14(455B) Municipal solid waste landfill financial assurance
- 113.15(455B,455D) Variances

CHAPTER 114

SANITARY LANDFILLS: CONSTRUCTION AND DEMOLITION WASTES

- 114.1(455B) Scope and applicability
- 114.2(455B) Permit required
- 114.3(455B) Types of permits
- 114.4(455B) Applications for permits
- 114.5(455B) Preparation of plans
- 114.6(455B) Construction and operation
- 114.7(455B) Compliance with rule changes
- 114.8(455B) Amendments
- 114.9(455B) Transfer of title and permit
- 114.10(455B) Permit conditions
- 114.11(455B) Effect of revocation
- 114.12(455B) Inspection prior to start-up
- 114.13(455B) Primary plan requirements for all sanitary disposal projects
- 114.14(455B) Hydrologic monitoring system planning requirements
- 114.15(455B) Soil investigation
- 114.16(455B) Hydrogeologic investigation
- 114.17(455B) Hydrologic monitoring system planning report requirements
- 114.18(455B) Evaluation of hydrogeologic conditions
- 114.19(455B) Monitoring system plan
- 114.20(455B) Sampling protocol
- 114.21(455B) Monitoring well maintenance and performance reevaluation plan
- 114.22(455B) Monitoring well siting requirements
- 114.23(455B) Monitoring well/soil boring construction standards
- 114.24(455B) Sealing abandoned wells and boreholes
- 114.25(455B) Variance from design, construction, and operation standards
- 114.26(455B) General requirements for all sanitary landfills
- 114.27(455B) Operating requirements for all sanitary disposal projects
- 114.28(455B) Specific requirements for a sanitary landfill proposing to accept only construction and demolition waste
- 114.29(455B) Operator certification
- 114.30(455B) Emergency response and remedial action plans
- 114.31(455B) Construction and demolition wastes sanitary landfill financial assurance

CHAPTER 115

SANITARY LANDFILLS: INDUSTRIAL MONOFILLS

- 115.1(455B) Scope and applicability
- 115.2(455B) Permit required
- 115.3(455B) Types of permits
- 115.4(455B) Applications for permits
- 115.5(455B) Preparation of plans
- 115.6(455B) Construction and operation
- 115.7(455B) Compliance with rule changes
- 115.8(455B) Amendments
- 115.9(455B) Transfer of title and permit
- 115.10(455B) Permit conditions

115.11(455B)	Effect of revocation
115.12(455B)	Inspection prior to start-up
115.13(455B)	Primary plan requirements for all sanitary disposal projects
115.14(455B)	Hydrologic monitoring system planning requirements
115.15(455B)	Soil investigation
115.16(455B)	Hydrogeologic investigation
115.17(455B)	Hydrologic monitoring system planning report requirements
115.18(455B)	Evaluation of hydrogeologic conditions
115.19(455B)	Monitoring system plan
115.20(455B)	Sampling protocol
115.21(455B)	Monitoring well maintenance and performance reevaluation plan
115.22(455B)	Monitoring well siting requirements
115.23(455B)	Monitoring well/soil boring construction standards
115.24(455B)	Sealing abandoned wells and boreholes
115.25(455B)	Variance from design, construction, and operation standards
115.26(455B)	General requirements for all sanitary landfills
115.27(455B)	Operating requirements for all sanitary disposal projects
115.28(455B)	Specific requirements for a sanitary landfill proposing to accept a specific type of solid waste
115.29(455B)	Operator certification
115.30(455B)	Emergency response and remedial action plans
115.31(455B)	Industrial monofill sanitary landfill financial assurance

CHAPTER 116

REGISTRATION OF WASTE TIRE HAULERS

116.1(455B,455D)	Purpose
116.2(455B,455D)	Definitions
116.3(455B,455D)	Registration requirement
116.4(455B,455D)	Registration form
116.5(455B,455D)	Registration fee
116.6(455B,455D)	Bond form
116.7(455B,455D)	Marking of equipment
116.8(455B,455D)	Disposition of waste tires collected
116.9(455B,455D)	Reporting requirements

CHAPTER 117

WASTE TIRE MANAGEMENT

117.1(455B,455D)	Purpose
117.2(455B,455D)	Definitions
117.3(455B,455D)	Waste tire disposal
117.4(455B,455D)	Waste tire storage permits and requirements
117.5(455B,455D)	Used tire storage
117.6(455B,455D)	Waste tire processing facility permits and requirements
117.7(455B,455D)	Financial assurance for waste tire sites
117.8(455B,455D)	Beneficial uses of waste tires

CHAPTER 118

DISCARDED APPLIANCE DEMANUFACTURING

118.1(455B,455D)	Purpose
118.2(455B,455D)	Applicability and compliance
118.3(455B,455D)	Definitions
118.4(455B,455D)	Storage and handling of appliances prior to demanufacturing
118.5(455B,455D)	Appliance demanufacturing permits

- 118.6(455B,455D) Appliance demanufacturing permit application requirements
- 118.7(455B,455D) Fixed facilities and mobile operations
- 118.8(455B,455D) Training
- 118.9(455B,455D) Refrigerant removal requirements
- 118.10(455B,455D) Mercury-containing component removal and disposal requirements
- 118.11(455B,455D) Capacitor removal requirements
- 118.12(455B,455D) Spills
- 118.13(455B,455D) Record keeping and reporting
- 118.14(455B,455D) Appliance demanufacturing facility closure requirements
- 118.15(455B,455D) Shredding of appliances
- 118.16(455B,455D) Appliance demanufacturing facility financial assurance requirements

CHAPTER 119

USED OIL AND USED OIL FILTERS

- 119.1(455D,455B) Authority, purpose, and applicability
- 119.2(455D,455B) Definitions
- 119.3(455D,455B) Prohibited disposal
- 119.4(455D,455B) Operational requirements for acceptance of used oil
- 119.5(455D,455B) Operational requirements for acceptance of used oil filters
- 119.6(455D,455B) Oil retailer requirements
- 119.7(455D,455B) Oil filter retailer requirements
- 119.8(455D,455B) Tanks
- 119.9(455D,455B) Locating collection sites

CHAPTER 120

LANDFARMING OF PETROLEUM CONTAMINATED SOIL

- 120.1(455B) Purpose
- 120.2(455B) Applicability and compliance
- 120.3(455B) Definitions
- 120.4(455B) Landfarming permits
- 120.5(455B) Landfarm permit application requirements
- 120.6(455B) PCS analysis and characterization
- 120.7(455B) Site exploration and suitability requirements for landfarms
- 120.8(455B) Landfarm design requirements
- 120.9(455B) Landfarm operating requirements
- 120.10(455B) Emergency response and remedial action plans
- 120.11(455B) Reporting and record-keeping requirements
- 120.12(455B) Landfarm closure
- 120.13(455B,455D) Financial assurance requirements for multiuse and single-use landfarms

CHAPTER 121

LAND APPLICATION OF WASTES

- 121.1(455B,17A) Scope of title
- 121.2(455B) Definitions
- 121.3(455B) Application for permits and forms
- 121.4(455B) Land application of solid wastes
- 121.5(455B) Land application of solid wastes for home and certain crop use
- 121.6(455B) Permit exemptions
- 121.7(455B) Permit requirements
- 121.8(455B,455D) Financial assurance requirements for land application of wastes

CHAPTER 122
CATHODE RAY TUBE DEVICE RECYCLING

- 122.1(455B,455D) Purpose
- 122.2(455B,455D) Applicability and compliance
- 122.3(455B,455D) Definitions
- 122.4(455B,455D) CRT recycling permits
- 122.5(455B,455D) Registration for CRT collection facilities
- 122.6(455B,455D) CRT collection and storage requirements for registered collection points
- 122.7(455B,455D) Record-keeping requirements for CRT collection facilities
- 122.8(455B,455D) CRT recycling facility permit application requirements
- 122.9(455B,455D) Site requirements for CRT recycling facilities
- 122.10(455B,455D) Design requirements for CRT recycling facilities
- 122.11(455B,455D) Operational requirements for permitted CRT recycling facilities
- 122.12(455B,455D) Further requirements for batteries for CRT recycling facilities
- 122.13(455B,455D) Further requirements for circuit boards for CRT recycling facilities
- 122.14(455B,455D) Further requirements for CRTs for CRT recycling facilities
- 122.15(455B,455D) Further requirements for removal and disposal of mercury-containing components for CRT recycling facilities
- 122.16(455B,455D) Further requirements for removal and disposal of PCB capacitors for CRT recycling facilities
- 122.17(455B,455D) Spills and releases at CRT recycling facilities
- 122.18(455B,455D) CRT recycling facilities that shred CRTs
- 122.19(455B,455D) Storage requirements for CRT recycling facilities
- 122.20(455B,455D) ERRAP requirements for CRT recycling facilities
- 122.21(455B,455D) Training requirements for CRT recycling facilities
- 122.22(455B,455D) Reporting requirements for CRT recycling facilities
- 122.23(455B,455D) Record-keeping requirements for CRT recycling facilities
- 122.24(455B,455D) Closure requirements for CRT recycling facilities
- 122.25(455B,455D) Financial assurance requirements for cathode ray tube (CRT) recycling facilities

CHAPTER 123
REGIONAL COLLECTION CENTERS AND
MOBILE UNIT COLLECTION AND CONSOLIDATION CENTERS

- 123.1(455B,455D,455F) Purpose
- 123.2(455B,455D,455F) Definitions
- 123.3(455B,455D,455F) Requirements for satellite facilities
- 123.4(455B,455D,455F) Regional collection center and mobile unit collection and consolidation center permits
- 123.5(455B,455D,455F) Permit application requirements for regional collection centers
- 123.6(455B,455D,455F) Permit application requirements for mobile unit collection and consolidation centers
- 123.7(455B,455D,455F) Site selection
- 123.8(455B,455D,455F) Structures
- 123.9(455B,455D,455F) Staff qualifications
- 123.10(455B,455D,455F) Plans and procedures
- 123.11(455B,455D,455F) Emergency response and remedial action plans
- 123.12(455B,455D,455F) Reporting requirements
- 123.13(455B,455D,455F) Financial assurance requirements for regional collection centers and mobile unit collection and consolidation centers

CHAPTERS 124 to 129

Reserved

TITLE IX

SPILLS AND HAZARDOUS CONDITIONS

CHAPTER 130

Reserved

CHAPTER 131

NOTIFICATION OF HAZARDOUS CONDITIONS

131.1(455B)

Definitions

131.2(455B)

Report of hazardous conditions

CHAPTER 132

Reserved

CHAPTER 133

RULES FOR DETERMINING

CLEANUP ACTIONS AND RESPONSIBLE PARTIES

133.1(455B,455E) Scope

133.2(455B,455E) Definitions

133.3(455B,455E) Documentation of contamination and source

133.4(455B,455E) Response to contamination

133.5(455B,455E) Report to commission

133.6(455B) Compensation for damages to natural resources

CHAPTER 134

UNDERGROUND STORAGE TANK LICENSING AND CERTIFICATION PROGRAMS

PART A

CERTIFICATION OF GROUNDWATER PROFESSIONALS

134.1(455G)

Definition

134.2(455G)

Certification requirements

134.3(455G)

Certification procedure

134.4(455G)

Suspension, revocation and denial of certification

134.5(455G)

Penalty

PART B

CERTIFICATION OF UST COMPLIANCE INSPECTORS

134.6(455B)

Definition

134.7(455B)

Certification requirements for UST compliance inspectors

134.8(455B)

Temporary certification

134.9(455B)

Application for inspector certification

134.10(455B)

Training and certification examination

134.11(455B)

Renewal of certification

134.12(455B)

Professional liability insurance requirements

134.13(455B)

Licensed company

134.14(455B)

Compliance inspection

134.15(455B)

Disciplinary actions

134.16(455B)

Revocation of inspector certification or company license

PART C

LICENSING OF UST PROFESSIONALS

134.17(455B)

Definitions

134.18(455B)

Applicability of Part C

134.19(455B)

General licensing requirements

134.20(455B)	License renewal procedures
134.21(455B)	Conflict of interest
134.22(455B)	Duty to report
134.23(455B)	OSHA safety requirements
134.24(455B)	Installers
134.25(455B)	Testers
134.26(455B)	Liners
134.27(455B)	Installation inspectors
134.28(455B)	Removers
134.29(455B)	Disciplinary actions

CHAPTER 135

TECHNICAL STANDARDS AND CORRECTIVE ACTION REQUIREMENTS FOR OWNERS AND OPERATORS OF UNDERGROUND STORAGE TANKS

135.1(455B)	Authority, purpose and applicability
135.2(455B)	Definitions
135.3(455B)	UST systems—design, construction, installation and notification
135.4(455B)	General operating requirements
135.5(455B)	Release detection
135.6(455B)	Release reporting, investigation, and confirmation
135.7(455B)	Release response and corrective action for UST systems containing petroleum or hazardous substances
135.8(455B)	Risk-based corrective action
135.9(455B)	Tier 1 site assessment policy and procedure
135.10(455B)	Tier 2 site assessment policy and procedure
135.11(455B)	Tier 3 site assessment policy and procedure
135.12(455B)	Tier 2 and 3 site classification and corrective action response
135.13(455B)	Public participation
135.14(455B)	Action levels
135.15(455B)	Out-of-service UST systems and closure
135.16(455B)	Laboratory analytical methods for petroleum contamination of soil and water
135.17(455B)	Evaluation of ability to pay
135.18(455B)	Transitional rules
135.19(455B)	Analyzing for methyl tertiary-butyl ether (MTBE) in soil and groundwater samples
135.20(455B)	Compliance inspection of UST system

CHAPTER 136

FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS

136.1(455B)	Applicability
136.2	Reserved
136.3(455B)	Definition of terms
136.4(455B)	Amount and scope of required financial responsibility
136.5(455B)	Allowable mechanisms and combinations of mechanisms
136.6(455B)	Financial test of self-insurance
136.7(455B)	Guarantee
136.8(455B)	Insurance and risk retention group coverage
136.9(455B)	Surety bond
136.10(455B)	Letter of credit
136.11(455B)	Trust fund
136.12(455B)	Standby trust fund
136.13(455B)	Local government bond rating test
136.14(455B)	Local government financial test

136.15(455B)	Local government guarantee
136.16(455B)	Local government fund
136.17(455B)	Substitution of financial assurance mechanisms by owner or operator
136.18(455B)	Cancellation or nonrenewal by a provider of financial assurance
136.19(455B)	Reporting by owner or operator
136.20(455B)	Record keeping
136.21(455B)	Drawing on financial assurance mechanisms
136.22(455B)	Release from the requirements
136.23(455B)	Bankruptcy or other incapacity of owner or operator or provider of financial assurance
136.24(455B)	Replenishment of guarantees, letters of credit, or surety bonds

CHAPTER 137 IOWA LAND RECYCLING PROGRAM AND RESPONSE ACTION STANDARDS

137.1(455H)	Authority, purpose and applicability
137.2(455H)	Definitions
137.3(455H)	Enrollment in land recycling program
137.4(455H)	Background standards
137.5(455H)	Statewide standards
137.6(455H)	Site-specific standards
137.7(455H)	Institutional and technological controls
137.8(455H)	Site assessment
137.9(455H)	Risk evaluation/response action
137.10(455H)	Demonstration of compliance
137.11(455H)	No further action classification

CHAPTERS 138 and 139 Reserved

TITLE X *HAZARDOUS WASTE*

CHAPTER 140 SCOPE OF TITLE—DEFINITIONS—FORMS—RULES OF PRACTICE

140.1(455B)	Scope of title
140.2	Reserved
140.3(455B)	Notification by generators, transporters and hazardous waste facilities
140.4(455B)	Application for permits and renewals by new hazardous waste facilities
140.5(455B)	Application for permits and renewals by existing hazardous waste facilities
140.6(455B)	Form for the hazardous waste program—transportation, treatment and disposal fees
140.7(455B)	Form for the analysis and notification requirements for recycled oil

CHAPTER 141 HAZARDOUS WASTE

141.1(455B)	Hazardous waste management system: General
141.2(455B)	Identification, listing, and exclusions of hazardous waste
141.3(455B)	Standards applicable to generators of hazardous waste
141.4(455B)	Standards applicable to transporters of hazardous waste
141.5(455B)	Standards for owners and operators of hazardous waste treatment, storage and disposal facilities
141.6(455B)	Interim status standards for owners and operators of hazardous waste treatment, storage and disposal facilities
141.7(455B)	Disposal of hazardous waste into wells

141.8 to 141.11	Reserved
141.12(455B)	Notification
141.13(455B)	Permitting procedures
141.14(455B)	The hazardous waste permit program
141.15(455B)	Confidentiality of information
141.16(455B)	Permit in lieu of a state hazardous waste permit

CHAPTERS 142 and 143

Reserved

CHAPTER 144

HOUSEHOLD HAZARDOUS MATERIALS

144.1(455F)	Scope
144.2(455F)	Definitions
144.3(455F)	Household hazardous materials
144.4(455F)	Sign requirements
144.5(455F)	Consumer information material

CHAPTER 145

HOUSEHOLD BATTERIES

145.1(455B,455D)	Scope
145.2(455B,455D)	Definitions
145.3(455B,455D)	Household batteries
145.4(455B,455D)	Recycling/disposal requirements for household batteries
145.5(455B,455D)	Exemptions for batteries used in rechargeable consumer products

CHAPTERS 146 and 147

Reserved

CHAPTER 148

REGISTRY OF HAZARDOUS WASTE OR HAZARDOUS SUBSTANCE DISPOSAL SITES

148.1(455B)	Scope
148.2(455B)	Definitions
148.3(455B)	Site selection for investigation criteria
148.4(455B)	Site investigation for listing on registry
148.5(455B)	Site classification
148.6(455B)	Site listing
148.7(455B)	Annual report

CHAPTER 149

FEES FOR TRANSPORTATION, TREATMENT AND DISPOSAL OF
HAZARDOUS WASTE

149.1(455B)	Authority, purpose and applicability
149.2	Reserved
149.3(455B)	Exclusions and effect on other fees
149.4(455B)	Fee schedule
149.5(455B)	Form, manner, time and place of filing
149.6(455B)	Identification, sampling and analytical requirements
149.7(455B)	Reporting and record keeping
149.8(455B)	Failure to pay fees
149.9(455B)	Suspension of fees

CHAPTER 150
LOCATION AND CONSTRUCTION OF HAZARDOUS WASTE
TREATMENT, STORAGE AND DISPOSAL FACILITIES

- 150.1(455B) Authority, purpose, scope and policy
- 150.2(455B) Definitions
- 150.3(455B) Application procedure
- 150.4(455B) Temporary commissioners
- 150.5(455B) Initial review, notice, and acceptance
- 150.6(455B) Intervention
- 150.7(455B) Proceedings
- 150.8(455B) Decision of the commission
- 150.9(455B) Assessment of costs
- 150.10(455B) Transfer of license
- 150.11(455B) Suspension/revocation/modification

CHAPTER 151
CRITERIA FOR SITING HAZARDOUS WASTE MANAGEMENT FACILITIES

- 151.1(455B) Authority, purpose, scope
- 151.2(455B) Definitions
- 151.3(455B) Siting criteria

CHAPTER 152
CRITERIA FOR SITING LOW-LEVEL RADIOACTIVE
WASTE DISPOSAL FACILITIES

- 152.1(455B) Authority, purpose and scope
- 152.2(455B) Definitions
- 152.3(455B) Siting criteria

CHAPTERS 153 to 208
Reserved

TITLE XI
WASTE MANAGEMENT AUTHORITY

CHAPTER 209
SOLID WASTE ALTERNATIVES PROGRAM

- 209.1(455B,455E) Goal
- 209.2(455B,455E) Purpose
- 209.3(455B,455E) Definitions
- 209.4(455B,455E) Role of the department of natural resources
- 209.5(455B,455E) Funding sources
- 209.6(455B,455E) Eligible projects
- 209.7(455B,455E) Type of financial assistance
- 209.8(455B,455E) Loans
- 209.9(455B,455E) Reduced award
- 209.10(455B,455E) Fund disbursement limitations
- 209.11(455B,455E) Minimum applicant cost share
- 209.12(455B,455E) Eligible costs
- 209.13(455B,455E) Ineligible costs
- 209.14(455B,455E) Selection criteria
- 209.15(455B,455E) Written agreement
- 209.16(455B,455E) Proposals
- 209.17(455B,455E) Financial assistance denial
- 209.18(455B,455E) Amendments

CHAPTER 210
BEAUTIFICATION GRANT PROGRAM

210.1(455E)	Beautification grant program
210.2(455E)	Purpose
210.3(455E)	Role of the department
210.4(455E)	Applications; submission deadlines
210.5(455E)	Eligibility
210.6(455E)	Evaluation of applications
210.7(455E)	Rejection of applications
210.8(455E)	Reduced award
210.9(455E)	Fund disbursement limitations
210.10(455E)	Eligible costs
210.11(455E)	Ineligible costs
210.12(455E)	Written agreement and reporting

CHAPTER 211
FINANCIAL ASSISTANCE FOR THE COLLECTION OF HOUSEHOLD HAZARDOUS
MATERIALS AND HAZARDOUS WASTE FROM CONDITIONALLY EXEMPT SMALL
QUANTITY GENERATORS

211.1(455F)	Purpose
211.2(455F)	Definitions
211.3(455F)	Role of the department
211.4(455F)	Funding sources
211.5(455F)	Eligible costs
211.6(455F)	Ineligible costs
211.7(455F)	Criteria for the selection of an RCC establishment grant
211.8(455F)	Grant denial
211.9(455F)	RCC and MUCCC household hazardous material disposal funding

CHAPTER 212
Reserved

CHAPTER 213
PACKAGING—HEAVY METAL CONTENT

213.1(455D)	Purpose
213.2(455D)	Applicability
213.3(455D)	Definitions
213.4(455D)	Prohibition—schedule for removal of incidental amounts
213.5(455D)	Certification of compliance
213.6(455D)	Exemptions
213.7(455D)	Inspection and penalties

CHAPTER 214
HOUSEHOLD HAZARDOUS MATERIALS PROGRAM

214.1(455F)	Scope
214.2(455F)	Goal
214.3(455F)	Definitions
214.4(455F)	Role of the department of natural resources
214.5(455F)	Funding sources
214.6(455F)	Household hazardous materials education
214.7(455F)	HHM education grants
214.8(455F)	Selection of TCD event host

- 214.9(455F) TCD events
- 214.10(455F) Selection of hazardous waste contractor

CHAPTER 215

MERCURY-ADDED SWITCH RECOVERY FROM END-OF-LIFE VEHICLES

- 215.1(455B) Purpose
- 215.2(455B) Compliance
- 215.3(455B) Definitions
- 215.4(455B) Plans for removal, collection, and recovery of mercury-added vehicle switches
- 215.5(455B) Proper management of mercury-added vehicle switches
- 215.6(455B) Public notification
- 215.7(455B) Reporting
- 215.8(455B) State procurement
- 215.9(455B) Future repeal of mercury-free recycling Act—implementation of national program

CHAPTERS 216 and 217

Reserved

CHAPTER 218

WASTE TIRE STOCKPILE ABATEMENT PROGRAM

- 218.1(455D) Goal
- 218.2(455D) Purpose
- 218.3(455D) Definitions
- 218.4(455D) Role of the department of natural resources
- 218.5(455D) Existing authority
- 218.6(455D) Funding source
- 218.7(455D) Applicability
- 218.8(455D) Abatement fund priorities
- 218.9(455D) Abatement site determination criteria
- 218.10(455D) Procedures for use of abatement funds through an abatement order or negotiated settlement
- 218.11(455D) Procedure for use of abatement fund at a permitted waste tire processing site
- 218.12(455D) Abatement cost recovery
- 218.13(455D) Abatement contracts