Title 117

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

TITLE 117 - NEBRASKA SURFACE WATER QUALITY STANDARDS

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TITLE 117 - NEBRASKA SURFACE WATER QUALITY STANDARDS
ALPHABETICAL LIST OF SUBJECTS AND ENABLING LEGISLATION

SUBJECT OR TITLE	ENABLING LEGISLATION	CODE SECTION
Antidegradation Clause	81-1501(1) 81-1505(1)(2)	Ch. 3
Application of Standards	81-1505(1)(2)	Ch. 2
Definition of Terms	81-1502 81-1505(1)(2)	Ch. 1
Effective Date	81-1505(17)	Ch. 8
Lakes and Impounded Waters	81-1505(1)(2)	Ch. 6
Standards for Water Quality	81-1505(1)(2)	Ch. 4
Stream Classification by Basin	81-1505(1)(2)	Ch. 5
Water Quality Standards for Wetlands	81-1501(1) 81-1505(1)(2)	Ch. 7

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Title 117 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 1 - DEFINITION OF TERMS

001 "Acute Criteria" shall mean the threshold concentration of a substance that aquatic organisms can be exposed to for period of 96 hours or less with no resulting acute toxicity.

002 "Acute Mixing Zone" shall mean the limited area or volume of a waterbody, as designated by the Department, which adjoins a point source discharge, where acute criteria may be exceeded while wastewaters which have received the applicable level of treatment or control are allowed to assimilate, disperse, dissipate, or undergo chemical transformation.

003 "Acute Toxicity" shall mean the response of an aquatic organism to a concentration of substance which results in injury or mortality within period of 96 hours or less.

004 "Acute Toxic Units (TU_a)" shall mean the reciprocal of the effluent dilution that causes an acute effect (e.g., LC_{50}) to the test organism by the end of the acute exposure period.

005 "Applicable Level of Treatment or Control" shall mean that treatment or control which is required by Title 119 - Rules and Regulations Pertaining to the Issuance of Permits under the National Pollutant Discharge Elimination System; Title 120 - Procedures Pursuant to Section 401 of the Federal Clean Water Act, 33 U.S.C. § 1251 Et Seq., for Certification by the Department of Activities Requiring a Federal License or Permit which may Result in a Discharge; Title 121 - Effluent Guidelines and Standards; Title 127 - Rules and Regulations Governing the Nebraska Pretreatment Program; or which is otherwise specified by the Department considering best available technology and management practices.

006 "Beneficial Use" shall mean any productive use of surface waters for which water quality is protected. Beneficial uses include but are not limited to agricultural, industrial, and public water supplies; support and propagation of fish, and other aquatic life; recreation in and on the water; and aesthetics. Waste assimilation, disposal, or transport are not beneficial uses.

007 "Bioassay" shall mean a test used to evaluate the relative toxicity of a substance by comparing its effect on a living organism to the effect of a standard preparation (control) on the same type of organism.

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008 "Canal" shall mean an artificial waterway constructed for the purpose of developing water power, or any other useful purpose, and from which water can be taken for irrigation.

009 "Chronic Criteria" shall mean the threshold concentration of a substance that aquatic organisms can be exposed to for a period exceeding 96 hour with no resulting chronic toxicity.

010 "Chronic Mixing Zone" shall mean the limited area or volume of a waterbody, as designated by the Department, which adjoins a point source discharge, where chronic criteria may be exceeded while wastewaters which have received the applicable level of treatment or control are allowed to assimilate, disperse, dissipate, or undergo chemical transformation.

011 "Chronic Toxicity" shall mean the response of an aquatic organism to a concentration of a substance which results in adverse effects such as injury, mortality, reduced growth, or impaired reproduction after period of exposure exceeding 96 hours.

012 "Chronic Toxic Units (TU_c)" shall mean the reciprocal of the effluent dilution that causes no chronic toxicity to the test organisms by the end of the chronic exposure period.

013 "Clean Water Act" shall mean Public Law 92-500, as amended by Public Law 95-217 and Public Law 100-4, 33 U.S.C. §1251 et seq.

014 "Colloidal Substances" shall mean clay or other substances which do not settle out of suspension in water without the use of a flocculent.

015 "Conductivity" shall mean a measure of the ability of water to conduct an electrical current which is expressed in micromhos per centimeter. Conductivity is related to the number and types of chemical ions or dissolved solids in solution.

016 "Cubic Foot per Second (cfs)" shall mean the unit of measurement used in reporting stream discharge, sometimes referred to as second-foot (sec-ft). It is a volume of one cubic foot passing a given point during one second of time and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

017 "Daily Mean" shall mean an average of at least two appropriately spaced measurements, as determined by the Department, calculated over a period of one day. In calculating the daily mean for dissolved oxygen, values used in the calculations shall not exceed the dissolved oxygen air saturation value. If a measured value exceeds the dissolved oxygen air saturation value, then the dissolved oxygen air saturation value shall be used in calculating the daily mean.

018 "Department" shall mean the Nebraska Department of Environmental Quality.

019 "Dissolved Oxygen (DO)" shall mean a measure of the amount of free oxygen in the water.

020 "Dissolved Oxygen Air Saturation Value" shall mean the concentration of dissolved oxygen which represents 100 percent saturation at any given point in a water body based on the water temperature and atmospheric pressure.

021 "EPA" shall mean the United States Environmental Protection Agency.

022 "Early-Life Stages" shall mean all embryonic and larval stages and all juvenile forms of aquatic life to 30 days following hatching.

023 "Effluent" shall mean wastewater, excluding sludge, discharging from a wastewater treatment works.

024 "Endangered Species" shall mean any aquatic species identified by the Nebraska Game and Parks Commission whose continued existence as a viable component of the wild fauna of the State is determined to be in jeopardy or which meets the criteria of the Federal Endangered Species Act.

025 "Epilimnion" shall mean the warm, freely circulating upper layer of thermally stratified lakes.

026 "Existing Uses" shall mean those beneficial uses actually attained or attainable in a water body on or after November 28, 1975, whether or not they are included in these standards.

027 "Fecal Coliform" shall mean the portion of the coliform bacteria group which is present in the gut or feces of warm-blooded animals and generally includes organisms which are capable of producing gas from lactose broth in a suitable culture medium within 24 hours at 44.5 ± 0.5°C.

028 "Four-Day Average" shall mean an average of the daily mean values calculated over a period of four consecutive days.

029 "Garbage" shall mean rejected food wastes, including waste accumulation of animal, fruit, or vegetable matter used or intended for food or that attend the preparation, use, cooking, dealing in, or storing of meat, fish, fowl, fruit, or vegetables, and dead animals rejected by rendering plants.

030 "Hardness" shall mean a characteristic of water which represents the total concentration of polyvalent cations (e.g., calcium, magnesium) expressed as calcium carbonate in mg/l. Hardness may be calculate for most waters by adding together the values obtained from multiplying the concentrations of calcium by 2.497 and magnesium by 4.116 to obtain the equivalent calcium carbonate concentration.

031 "High-Rate Diffusers" shall mean devices attached to, or part of, a discharge outfall structure which provide discharge velocities that promote turbulent initial mixing of wastewaters with the receiving water.

032 "Human-Induced Conditions" shall mean conditions that have been influenced by human activities.

033 "Hypolimnion" shall mean the cold, relatively undisturbed lowermost layer of thermally stratified lakes.

034 "Impounded Waters" shall mean manmade or naturally occurring collections or confinements of water.

035 "Junk" shall mean old scrap, copper, brass, iron, steel, rope, rags, batteries, paper, trash, rubber debris, waste, dismantled or wrecked automobiles, or parts thereof, and other old or scrap ferrous or nonferrous material.

036 "Key Species" shall mean identified endangered, threatened, sensitive, or recreationally-important aquatic species associated with a particular water body and its aquatic life use class.

037 "Lake or Impounded Water" shall mean any waterbody with all of the following characteristics: (1) situated in a topographic depression or a dammed stream channel; (2) 30 percent or less areal coverage of trees, shrubs, persistent emergent aquatic plants, or emergent mosses; and (3) total area exceeds 20 acres. Similar waterbodies totaling less than 20 acres are also included if an active waveformed or bedrock shoreline feature makes up all or part of the boundary, or if the water depth in the deepest part of the basin exceeds 6.6 feet. Impounded waters in this definition do not include areas designated by the Department as wastewater treatment or wastewater retention facilities or irrigation reuse pits.

038 "LC_{50}" shall mean the statistical estimate of the concentration of a substance which kills 50 percent of the bioassay test organisms under test conditions specified or approved by the Department.

039 "Metalimnion" shall mean the layer of a thermally stratified lake which exhibits a steep temperature gradient and separates the epilimnion above from the hypolimnion below.

040 "Milligrams per Liter (mg/l)" shall mean the milligrams of substance per liter of solution, equivalent to parts per million assuming unit density of the solution.

041 "Mixing Zone" shall mean the limited area or volume of a water body, as designated by the Department, which adjoins a point source discharge, and into which wastewaters which have received the applicable level of treatment or control are allowed to assimilate, disperse, dissipate, or undergo chemical transformation.

042 "No Observed Effect Level (NOEL)" shall mean the threshold concentration of a substance which causes no observed adverse effects to bioassay test organisms under test conditions specified or approved by the Department.

043 "Noncontact Cooling Water" shall mean water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

044 "Nonpoint Source" shall mean any source of pollutants other than those defined as point sources.

045 "Nuisance Aquatic Life" shall mean species of aquatic flora or fauna whose noxious characteristics or presence in sufficient numbers, biomass, or areal extent may reasonably be expected to prevent or interfere with a beneficial use.

046 "One-Day Minimum" shall mean the lowest daily instantaneous value measured.

047 "One-Day Ten-Year (1Q10) Low Flow" shall mean the discharge at the ten-year recurrence interval determined from a frequency distribution of annual values of the lowest discharge for one day.

048 "One-Hour Average" shall mean an average of at least two appropriately spaced measurements, as determined by the Department, calculated over a period of one hour.

049 "Petroleum Oils" shall mean all oils other than oils of vegetable and animal origin.

050 "pH" shall mean the negative logarithm of the hydrogen ion concentration ($pH = -\log [H^+]$). pH expresses both the acidity and alkalinity of water on a scale from 0 to 14, with 7 representing neutrality (numbers less than 7 denote increasing acidity, and numbers greater than 7 denote increasing alkalinity).

051 "Point Source" shall mean any discernible confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, or vessel or other floating craft, from which pollutants are or may be discharged.

052 "Pollutant" shall mean any gas, liquid, or solid introduced into a body of water that causes water pollution. Pollutants under this definition include, but are not limited to, dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste discharged into water.

053 "Recreationally-Important Species" shall mean any game fish species identified by the Department, or any hybrid thereof, which is important to sport fishermen and readily affected by water quality degradation.

054 "Refuse" shall mean putrescible and nonputrescible solid wastes, except body wastes, and includes garbage, rubbish, ashes, incinerator ash, incinerator residue, street cleanings and solid market and industrial wastes.

055 "Resident Species" shall mean those species that typically occur in a water body including those that occur only seasonally or intermittently. Species that were once present but can no longer return due to physical habitat alterations are not included.

056 "Rubbish" shall mean nonputrescible solid wastes, excluding ashes, consisting of both combustible and noncombustible wastes, such as paper, cardboard, tin cans, yard clippings, wood, glass, bedding, crockery, or litter of any kind that will be a detriment to the public health and safety.

057 "Salmonid" shall mean any fish belonging to the family Salmonidae. Trout are members of this family.

058 "Sensitive Species" shall mean any aquatic species identified by the Department which has a limited distribution in the State and is indigenous to stable, high quality aquatic environments.

059 "Settleable Solids" shall mean substances such as silt, organic detritus, plankton, or sand, which settle to the bottom of a water body or water column.

060 "Seven-Day Mean" shall mean an average of the daily mean values calculated over a period of seven consecutive days.

061 "Seven-Day Mean Minimum" shall mean an average of the one-day minimum values calculated over a period of seven consecutive days.

062 "Seven-Day Ten-Year (7Q10) Low Flow" shall mean the discharge at the ten-year recurrence interval determined from a frequency distribution of annual values of the lowest average discharge for seven consecutive days.

063 "Standards" shall mean rules or regulations which are comprised of the water quality criteria that are necessary to protect the beneficial uses of surface waters.

064 "Substrate" shall mean any naturally occurring or artificial solid surface which is emersed or submerged in water.

065 "Surface Waters" shall mean all waters within the jurisdiction of this State, including all streams, lakes, ponds, impounding reservoirs, marshes, wetlands, watercourses, waterways, springs, canal systems, drainage systems, and all other bodies or accumulations of water, natural or artificial, public or private, situated wholly or partly within or bordering upon the State. Impounded waters in this definition do not include areas designated by the Department as wastewater treatment or wastewater retention facilities or irrigation reuse pits.

066 "Suspended Solids" shall mean substances such as clay, silt, organic detritus, plankton, or sand, which are held in suspension by water currents or which exist in suspension as colloids.

067 "Synergistic Effects" shall mean the cooperative action of discrete substances such that the cumulative effects are greater than the sum of the effects taken independently.

068 "Thermal Stratification" shall mean a characteristic of certain lakes in which distinct layers of water that differ in density exist because of temperature differences. These layers are resistant to mixing with each other.

069 "Thirty-Day Five-Year (30Q5) Low Flow" shall mean the discharge at the five-year recurrence interval determined from a frequency distribution of annual values of the lowest average discharge for thirty consecutive days.

070 "Thirty-Day Mean" or "Thirty-Day Average" shall mean an average of the daily mean values calculated over a period of thirty consecutive days.

071 "Threatened Species" shall mean any aquatic species identified by the Nebraska Game and Parks Commission whose continued existence as a viable component of the wild fauna of the State appears likely to become endangered or which meets the criteria of for threatened species in the Federal Endangered Species Act.

072 "Toxic Substances" shall mean those pollutants or combination of pollutants, radioactive substances, or disease causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into an organism, either directly from the environment or indirectly by ingestion through food chains, will on the basis of information available to the Department cause either death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunction in reproduction) or physical deformations, on such organism or their offspring.

073 "Toxic Units (TU)" shall mean the reciprocal of the effluent dilution that produces the bioassay endpoint.

074 "Twenty-four Hour Average" shall mean an average of at least two appropriately spaced measurements, as determined by the Department, calculated over a period of 24 consecutive hours.

075 "Wastewater" shall mean water containing sewage, and/or industrial wastes, including, but not limited to, discharges from sand and gravel operations, cooling water, storm water, street and road runoff, return flow from irrigation, feedlot runoff, or wastes resulting from land erosion and other discharges, treated or untreated, which enter directly or indirectly into the waters of the State or to any storm sewer, and including the runoff from land used for the disposition of wastes.

076 "Water Pollution" shall mean the manmade or man-induced alteration of the chemical, physical, biological, and radiological integrity of water.

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077 "Water Quality" shall mean the biological, chemical, physical, and radiological integrity of a body of water.

077.01 "Biological Integrity" shall mean the plant, animal, and bacteriological species composition of a body of water.

077.02 "Chemical Integrity" shall mean the chemical properties of the water, sediments, or biological organisms (e.g., concentrations in fish tissue) of a body of water.

077.03 "Physical Integrity" shall mean the physical properties (e.g., temperature, turbidity, sedimentation) of a body of water.

077.04 "Radiological Integrity" shall mean the radioactive properties of the water, sediments, or biological organisms (e.g., concentrations in fish tissue) of a body of water.

078 "Water Quality Criteria" shall mean the elements of standards which are expressed as concentrations, levels, or narrative statements and represent the quality of water that is necessary to protect a beneficial use.

079 "Wetland" shall mean those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

080 "Zone of Passage" shall mean the area or volume of a water body outside of any mixing zone or zones which provides a continuous water route for the free passage of swimming and drifting aquatic organisms such that there are no adverse effects to their populations.

Enabling Legislation: Neb. Rev. Stat. [[81-1502 and 81-1505(1)(2)

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Title 117 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 2 - APPLICATION OF STANDARDS

001 These standards shall apply at all times to all surface waters of the State except where noted below. Impounded waters designated by the Department as wastewater treatment facilities, wastewater retention facilities, or irrigation reuse pits are by definition (Chapter 1) not surface waters, thus standards do not apply to these waters.

002 The water quality criteria which may be necessary to protect downstream beneficial uses shall be applicable to all surface waters, whether or not those beneficial uses are assigned to a given water body in these Standards.

003 The application of standards for streams shall be in accordance with Chapters 3, 4, and 5.

004 The application of standards for lakes and impounded waters shall be in accordance with Chapters 3, 4, and 6. Lakes and impounded waters not identified in Chapter 6 shall be protected for the assigned beneficial uses of the stream segments (Chapter 5) on which they are located. Water quality criteria associated with such beneficial uses shall be applicable to these lakes and impounded waters.

> 004.01 In lakes and impoundments, or portions thereof, which exhibit natural thermal stratification, all applicable narrative and numerical criteria, with the exception of the numerical criteria for temperature, apply only to the epilimnion. Numerical temperature criteria apply at all depths (epilimnion, metalimnion, and hypolimnion) of lakes and impoundments exhibiting natural thermal stratification. In lakes and impoundments, or portions thereof, not exhibiting natural thermal stratification, the applicable narrative and numerical criteria apply at all depths.

005 The application of standards for wetlands shall be in accordance with Chapters 3 and 7.

006 These standards may be applied through Title 119 - Rules and Regulations Pertaining to the Issuance of Permits Under the National Pollutant Discharge Elimination System and Title 120 - Procedures Pursuant to Section 401 of the Federal Clean Water Act, 33 u.s.c. § 1251 et seq., for Certification by the Department of Activities Requiring a Federal License or Permit which May Result in a Discharge.

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007 Narrative and numerical water quality criteria associated with aesthetics (Chapter 4, 005) and general criteria and acute toxicity criteria for protection of aquatic life (Chapter 4, 003) shall apply to all surface waters except as stated below in paragraphs 008, 010, 011, 012, and 013.

008 These standards, except water quality criteria associated with aesthetics (Chapter 4, 005), will not apply to effluents and non-contact cooling water discharges, although these standards are used in deriving effluent limitations pursuant to Title 121 - Effluent Guidelines and Standards.

009 These standards, except narrative and numerical water quality criteria associated with aesthetics (Chapter 4, 005) and general criteria and acute toxicity criteria for protection of aquatic life (Chapter 4, 003), will not apply to:

009.01 Streams assigned a Coldwater Class A, Coldwater Class B, or Warmwater Class A Aquatic Life use during periods when the flow is less than 0.1 cfs or the 7-day 10-year low flow, unless an assigned beneficial use still exists under these conditions. Thirty-day average ammonia criteria will not apply to these streams during periods when the flow is less than 0.1 cfs or the 30-day 5-year low flow.

009.02 Streams assigned the Warmwater Class B Aquatic Life use during periods when the flow is less than 1.0 cfs, unless an assigned beneficial use still exists under this condition.

009.03 Undesignated surface waters except as necessary to protect assigned downstream beneficial uses. Acute criteria which are applicable to these surface waters shall include those applicable for the Warmwater Class B Aquatic Life use.

009.04 Streams during periods when the instantaneous flow is totally composed of effluent or non-contact cooling water discharges, excluding minor amounts of bank seepage, unless an assigned beneficial use still exists under these conditions.

010 These standards, except water quality criteria associated with aesthetics (Chapter 4, 005) and recreation (Chapter 4, 002) will not apply within mixing zones unless specified below.

Mixing zones for the initial assimilation of effluents or wastewaters may be necessary where discharges that have received the applicable level of treatment or control still do not adequately protect the water quality of a receiving stream. Mixing zones shall be limited to as small an area and volume of a receiving stream as is practical to prevent interference with or impairment of any

beneficial uses. The requirements of mixing zones for heat shall be defined on a site-specific basis, in a manner consistent with Section 316 of the Clean Water Act.

010.01 The Department shall determine the applicability of a mixing zone, and if applicable, the allowable size, location, water quality, and outfall design. The following requirements shall be used in defining all mixing zones. These requirements are not intended to define each individual mixing zone, but represent maximum limits which will satisfy most biological, chemical, physical, and radiological considerations. A smaller mixing zone may be required or no zone at all allowed, as necessary, in order to meet these requirements.

010.02 The appropriateness, if any, of establishing a mixing zone for a pollutant which may be bioaccumulative, persistent, carcinogenic, mutagenic, or teratogenic shall be carefully evaluated by the Department. In such cases, effects such as potential ground water contamination, known or predicted safe exposure levels for human health, bioaccumulation in aquatic life, fish attraction, sediment deposition, and protection of downstream beneficial uses shall be considered.

010.03 Mixing zones established for dissolved oxygen shall take into account the delayed effects caused by oxidation of organic matter and ammonia inside and outside the mixing zone. One-day minimum dissolved oxygen criteria shall apply at the boundary of and beyond acute mixing zones, but not within acute mixing zones. All applicable dissolved oxygen criteria, including the one-day minimum criteria, shall be met at and beyond the mixing zone boundaries.

010.04 Mixing zones established for discharges impacting agricultural water supply criteria shall be based on the restrictions established for chronic mixing zones (010.06).

010.05 All mixing zone specifications shall be based on critical conditions of minimum dilution. Flow variable calculations that use real-time flows for a point source discharge and receiving stream may be allowed to determine critical conditions of minimum dilution. If flow variable critical conditions are not defined, critical conditions shall be determined as follows. The average dry weather or seasonal flow for a point source discharge shall be used with the 7-day 10-year low flow of the receiving stream for application of all criteria with the exception of thirty-day average ammonia criteria and acute criteria for aquatic life. The 30-day 5-year low flow of the receiving stream shall be used for application of thirty-day average ammonia criteria. The 1-day 10-year low flow of the receiving stream shall be used for application of acute criteria.

010.06 Chronic Mixing Zones.

Chronic toxicity to aquatic life shall not be allowed at any time outside of a chronic mixing zone.

010.06A The length of a chronic mixing zone shall not exceed the following distances based on designated aquatic life use classes.

010.06A1 Chronic mixing zones in Coldwater Class A, Coldwater Class B, and Warmwater Class B streams shall be designed to not exceed 2,500 feet in length.

010.06A2 Chronic mixing zones in Warmwater Class A streams shall be designed to not exceed 5,000 feet in length.

010.06B Chronic mixing zones shall be located in a receiving stream in such a manner that the maintenance of aquatic life and other beneficial uses will not be adversely affected.

010.06B1 A chronic mixing zone shall not overlap with any other mixing zone unless it is demonstrated to the satisfaction of the Department (e.g. aquatic field studies, bioassays in the site water using resident or acceptable nonresident aquatic species) that the overlapping of the mixing zones will not result in any adverse effects to aquatic life or other beneficial uses.

010.06B2 Chronic mixing zones shall not at any time:

010.06B2a Extend across public drinking water supply intakes.

010.06B2b Extend across heavily-used or state designated recreation bathing areas.

010.06B2c Extend into publicly owned lakes and reservoirs listed in Chapter 6.

010.06B2d Significantly impact federally designated threatened or endangered aquatic species.

010.06C Water quality of chronic mixing zones.

The Department may suspend the applicability of all or part of the water quality criteria within a chronic mixing zone, except those criteria relating to aesthetics (Chapter 4, 005) and acute toxicity to aquatic life (Chapter 4, 003.01C). In streams designated a recreational use, criteria relating to recreation (Chapter 4, 002) shall also apply within a chronic mixing zone. Waters at and beyond chronic mixing zone boundaries shall meet all chronic water quality criteria associated with the receiving stream any time the receiving streamflow is equal to or greater than 0.1 cfs for streams assigned a Coldwater Class A, Coldwater Class B, or Warmwater Class A Aquatic Life use; 1.0 cfs for streams assigned the Warmwater Class B Aquatic Life use; or its 7-day 10-year low flow (30-day 5 year low flow in the case of thirty-day average ammonia criteria), whichever is greater. To prevent chronic toxicity in a stream, the following conditions shall be met.

010.06C1 The pollutant levels or concentrations of wastewaters which contain unknown or complex mixtures of potentially additive or synergistic toxic pollutants shall not exceed 1.0 chronic toxic units (TU_c) based on chronic bioassays representing the effluent dilution received at the chronic mixing zone boundary.

010.06C2 Where more than one wastewater discharge is located in a specific area and the potential exists for additive or synergistic effects, the pollutant levels or concentrations in water from a receiving stream outside any mixing zone shall not exceed 1.0 TU_c based on chronic bioassays.

010.06C3 Where a mixing zone is not allowed by the Department, the pollutant levels or concentrations of the wastewater in the outfall structure itself shall not exceed the No Observed Effect Level (NOEL) based on chronic bioassays of the undiluted effluent.

010.07 Acute Mixing Zones.

Acute toxicity to aquatic life shall not be allowed at any time outside of an acute mixing zone.

010.07A Acute mixing zones shall allow at all times for a continuous zone of passage in the receiving stream for the movement or drift of aquatic biota. To provide for a zone of passage, the width of an acute mixing zone at any transect of the receiving stream shall not exceed more than 1/2 of the stream width. Where more than one wastewater discharge is located in a specific area, acute mixing zones shall be located in such a manner as to provide for a continuous zone of passage of at least 1/2 the stream width.

010.07B The length of an acute mixing zone shall not exceed the following distances based on designated aquatic life use classes.

010.07B1 Acute mixing zones in Coldwater Class A, Coldwater Class B, and Warmwater Class B streams shall be designed to not exceed 125 feet in length or 5 percent of the length of the chronic mixing zone whichever is more restrictive.

010.07B2 Acute mixing zones in Warmwater Class A streams shall be designed to not exceed 250 feet in length or 5 percent of the length of the chronic mixing zone whichever is more restrictive.

010.07C Acute mixing zones shall be located in a receiving stream in such a manner that the maintenance of aquatic life and other beneficial uses will not be adversely affected. Acute mixing zones shall not at any time:

010.07C1 Extend across public drinking water supply intakes.

010.07C2 Extend across heavily-used or state designated recreation bathing areas.

010.07C3 Extend into publicly owned lakes and reservoirs listed in Chapter 6.

010.07C4 Significantly impact federally designated threatened or endangered aquatic species.

010.07C5 Extend across the mouth of a classified tributary stream segment.

010.07D Water quality of acute mixing zones.

The Department may suspend the applicability of all or part of the water quality criteria within an acute mixing zone, except those criteria relating to aesthetics (Chapter 4, 005). In streams designated a recreational use, criteria relating to recreation (Chapter 4, 002) shall also apply within the acute mixing zone. Waters at and beyond acute mixing zone boundaries shall meet all acute water quality criteria associated with the receiving stream any time the receiving streamflow is equal to or greater than 0.1 cfs or its 1-day 10-year low flow.

010.07D1 The pollutant levels or concentrations of wastewaters which contain unknown or complex mixtures of potentially additive or synergistic toxic pollutants shall not exceed 0.3 acute toxic units (TU_a) based on acute bioassays representing the effluent dilution.received at the acute mixing zone boundary.

010.07D2 Where more than one wastewater discharge is located in a specific area and the potential exists for additive or synergistic effects, the pollutant levels or concentrations in water from a receiving stream outside any acute mixing zone shall not exceed 0.3 TU_a based on acute bioassays.

010.07D3 Where a mixing zone is not allowed by the Department, the pollutant levels or concentration of the wastewater in the outfall structure itself shall not exceed 0.3 TU_a based on acute bioassays of the undiluted effluent.

010.08 Mixing Zones for Public Drinking Water Supply Criteria.

In waters designated as Water Supplies for Public Drinking Water, the criteria for protection of public drinking water supplies shall not be exceeded at any time outside of a mixing zone for public drinking water supply criteria.

010.08A Mixing zones for public drinking water supply criteria shall be designed to not extend to within a 2 mile zone of influence from any public drinking water supply intake.

010.08B Mixing zones for public drinking water supply criteria shall be located in a receiving stream in such a manner that other beneficial uses will not be adversely affected.

010.08C Water quality of mixing zones for public drinking water supply criteria.

The Department may suspend the applicability of all or part of the water quality criteria for the protection of public drinking water supplies within a mixing zone for public drinking water supply criteria. Waters at and beyond boundaries of mixing zones for public drinking water supply criteria shall meet all public drinking water supply criteria any time the receiving stream is flowing equal to or greater than its 7-day 10-year low flow.

010.09 Outfall Design.

Prior to designating a mixing zone, the Department shall first approve pursuant to Title 123 - Rules and Regulations for Design, Operation, and Maintenance of Wastewater Treatment Works that the best practical engineering design for the outfall structure and its location and placement in the receiving stream have been applied, as necessary, to meet all mixing zone requirements for size, location, and water quality.

010.09A The following are acceptable circumstances for modifying the existing design, location, or placement of an outfall structure in a stream:

010.09A1 Where high-rate diffusers or similar devices are required to: (1) minimize or prevent exposure of aquatic biota to acutely toxic conditions within an acute mixing zone, (2) minimize or prevent exposure of aquatic biota to possible irreversible chronic effects within a mixing zone where wastewaters tend to attract aquatic organisms, or (3) otherwise expedite mixing and dispersion of wastewaters in order to meet mixing zone requirements for size, location, and water quality.

010.09A2 Where changes are required in the location of an outfall structure (e.g., upstream, downstream, or to the opposite stream bank) or its placement (e.g., water depth, direction in relation to the stream current) in order to meet mixing zone requirements for size, location, and water quality.

010.09B Water turbulence created by high-rate diffusers or similar devices shall not be of such a magnitude that the movement or drift of aquatic biota within a zone of passage is interfered with or prevented.

011 Water quality criteria in Chapters 4 and 7 related to aquatic herbicides or algicides and their effects shall not apply to waters within canals, except those canals designated as segments in Chapter 5, during periods when these chemicals are applied by an irrigation district for the control of aquatic plants.

011.01 All standards shall apply at all times to waters within canals designated as segments in Chapter 5.

011.02 Discharges from canal to other surface waters of the State shall not, at any time, contain herbicides or algicides in amounts which are toxic to aquatic life.

012 Water quality criteria in Chapters 4 and 7 related to aquatic biocides (e.g., ichthyocides, algicides, herbicides) and their effects shall not apply to surface waters during periods when aquatic biocides are applied by an entity responsible for the management of a surface water body under the following conditions:

012.01 Aquatic biocides shall be applied only for the purposes of attaining, maintaining, or enhancing beneficial uses identified in Chapters 4, 5, 6 and 7.

012.02 Application of aquatic biocides shall not cause adverse impacts to any assigned beneficial uses of surface waters beyond the targeted surface water body.

012.03 Application of aquatic biocides must be in accordance with the label restrictions and all applicable federal, state, and local laws or regulations.

012.04 Entities responsible for the management of surface water bodies may include the Nebraska Game and Parks Commission, Natural Resources Districts, U.S. Fish and Wildlife Service, U.S. Forest Service, National Parks Service, U.S. Army Corps of Engineers, city governments, or any other entity responsible for managing the surface water body's assigned beneficial uses.

013 These standards will not apply to:

013.01 Waters below existing hydroelectric plants during periods of approved sluicing activities, provided the hydroelectric plant was operational prior to May 10, 1982. The Department will determine when sluicing activities will be allowed.

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013.01A Sluicing activities will be conducted in such a manner as to minimize any harmful effects on assigned beneficial uses.

013.01B Sluicing shall not occur immediately before or during critical reproductive periods of identified key species.

013.01C In the event that the sluicing activity has been determined to have a deleterious impact on the aquatic biota of the State waters, the operator shall pay to the Game and Parks Commission annually the lesser of A., $5000.00, or B., 20% of the annual damages, which is the fair market mitigation to the fisheries resulting from the sluicing activity.

013.02 Waters within canals designated as segments in Chapter 5 during periods of dewatering which are required for or may result from repair, maintenance, inspection, non-diversion periods, force majeure or public safety.

Enabling Legislation: Neb. Rev. Stat. § 81-1505(1)(2)

Legal Citation: Title 117, Ch. 2, Nebraska Department of Environmental Quality

APPROVED
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ATTORNEY GENERAL
JUN 30 2000
BY
Assistant Attorney General

APPROVED
AUG 17 2000
MIKE JOHANNS
GOVERNOR

Effective Date: _____

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AUG 17 2000
SECRETARY OF STATE

Title 117 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 4 - STANDARDS FOR WATER QUALITY

001 It is the public policy of the State of Nebraska to protect and improve the quality of surface water for human consumption, wildlife, fish and other aquatic life, industry, recreation, and other productive, beneficial uses.

Beneficial uses are assigned to surface waters within or bordering upon the State of Nebraska (Chapters 5 and 6). Assigned and existing beneficial uses are protected by the Antidegradation Clause (Chapter 3) and the narrative and numerical water quality criteria in this chapter. Beneficial uses are also protected by permits issued in accordance with the requirements of these standards, and through Department requirements for the applicable level of treatment or control for point and nonpoint sources of pollution. Some uses require higher quality water than others. When multiple uses are assigned to the same waters, all assigned uses will be protected.

The beneficial uses defined by these standards are:

Primary Contact Recreation

Aquatic Life

Coldwater (Class A and B)
Warmwater (Class A and B)

Water Supply

Public Drinking Water
Agricultural
Industrial

Aesthetics

These uses are not intended in any way to conflict with the quantitative beneficial uses provided for in Neb. Rev. Stat., Ch. 46, regulating irrigation or the authority of the Nebraska Department of Water Resources.

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Effective Date: 8-17-00

002 Primary Contact Recreation.

This use applies to surface waters which are used, or have a high potential to be used, for primary contact recreational activities. Primary contact recreation includes activities where the body may come into prolonged or intimate contact with the water, such that water may be accidently ingested and sensitive body organs (e.g., eyes, ears, nose, etc.) may be exposed. Although the water may be accidently ingested, it is not intended to be used as a potable water supply unless acceptable treatment is applied. These waters may be used for swimming, water skiing, canoeing, and similar activities.

002.01 Fecal Coliform.

Bacteria of the fecal coliform group shall not exceed a geometric mean of 200/100 ml, nor equal or exceed 400/100 ml, in more than 10% of the samples. These criteria are based on a minimum of five samples taken within a 30-day period. This does not preclude fecal coliform limitations based on effluent guidelines.

These criteria apply during the recreational period of May 1 through September 30.

003 Aquatic Life.

003.01 General Criteria for Aquatic Life

The following criteria apply to all aquatic life use classes.

003.01A pH (Hydrogen Ion Concentration).

Hydrogen Ion concentrations, expressed as pH, shall be maintained between 6.5 and 9.0; unless pH values outside this range are due to natural conditions.

003.01B Temperature.

The temperature of a receiving water shall not be increased by a total of more than 5°F (3°C) from natural outside the mixing zone.

For the Missouri River, from the South Dakota-Nebraska state line near Ft. Randall Dam to Sioux City, Iowa, the maximum temperature limit is 85°F (29°C) with an allowable change of 4°F (2°C) from natural. For cold waters, the

maximum limit is 72°F (22°C) with an allowable change of 5°F (3°C) from natural. For warm waters, the maximum limit is 90°F (32°C).

For impoundments, the temperature of the epilimnion of surface waters shall not be raised more than 3°F (2°C) above that which existed before the addition of heat of artificial origin. Unless a special study shows that the discharge of heated effluent into the hypolimnion will be desirable, such practice is not recommended and water for cooling should not be pumped from the hypolimnion to be discharged to the same body of water.

003.01C Toxic Substances.

Surface waters shall be free from toxic substances, alone or in combination with other substances, in concentrations that result in acute or chronic toxicity to aquatic life, except as specified in Chapter 2. Toxic substances shall not be present in concentrations that result in objectionable tastes or significant bioaccumulation or biomagnification in aquatic organisms which renders them unsuitable or unsafe for consumption. (In implementing these criteria, the Department will follow procedures outlined in the State's Continuing Planning Process which comply with the federal water quality standards, 40 C.F.R. § 131.11 (1987)).

003.01C1 The following numerical criteria for the protection of aquatic life and their uses (e.g., fish consumption) shall not be exceeded. Unless otherwise noted, criteria are based on total concentrations.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Pesticides:			
Acrolein	68[a]	21[b]	107028
Alachlor	760[c]	76[d]	15972608
Aldrin	3.0[a]	0.00136[b,e]	309002
Atrazine	330[cc]	12[dd]	1912249
BHC[1]	100[a]	0.414[b,e]	319868
Alpha-BHC	(Reserved)	0.131[b,e]	319846
Beta-BHC	(Reserved)	0.46[b,e]	319857
Chlordane	2.4[a]	0.0043[b]	57749
Chlorpyrifos	0.083[c]	0.041[d]	2921882
DCPA[3]	(Reserved)	14,300[d]	1861321
DDT[4]	1.1[a]	0.001[b]	50293
DDT metabolite (DDE)	1050[a]	0.0059[b,e]	72559
DDT metabolite (TDE, DDD)	0.6[a]	0.0084[b,e]	72548
Demeton	(Reserved)	0.1[b]	8065483
Dieldrin	0.24[aa]	0.00144[b,e]	60571
Dioxin[5]	< 0.01[a]	< 0.00000014[b,e]	1746016
Alpha-Endosulfan	0.22[a]	0.056[b]	959988
Beta-Endosulfan	0.22[a]	0.056[b]	33213659
Endosulfan sulfate	(Reserved)	2,400[b,e]	1031078
Endrin	0.086[a]	0.036[b]	72208
Endrin aldehyde	(Reserved)	8.1[b,e]	7421934
Guthion	(Reserved)	0.01[b]	86500
Heptachlor	0.52[a]	0.00214[b,e]	76448
Heptachlor epoxide	0.52[a]	0.0011[b,e]	1024573
Isophorone	117,000[a]	26,000[b,e]	78591
Lindane[2]	0.95[aa]	0.16[b]	58899
Malathion	(Reserved)	0.1[b]	121755
Methoxychlor	(Reserved)	0.03[b]	72435
Metolachlor	390[c]	100[d]	51218452
Metribuzin	(Reserved)	100[d]	21087649

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Mirex	(Reserved)	0.001[d]	2385855
Parathion	0.065[c]	0.013[d]	56382
Pentachlorophenol	$e^{(1.005(pH)-4.869)}$ [c]	$e^{(1.005(pH)-5.134)}$ [d]	87865
Propachlor	(Reserved)	8.0[d]	1918167
Toxaphene	0.73[c]	0.0002[d]	8001352
Metals and Inorganics[6]:			
Aluminum	750[c]	87[d]	7429905
Antimony	88[c]	30[d]	7440360
Arsenic	340[c]	16.7[b,e]	7440382
Beryllium	130[a]	5.3[d]	7440417
Cadmium	(See Site-Specific or Aquatic Life Use Class Criteria)		7440439
Chromium (III)	(See Site-Specific or Aquatic Life Use Class Criteria)		16065831
Chromium (VI)	(See Site-Specific or Aquatic Life Use Class Criteria)		18540299
Copper	(See Site-Specific or Aquatic Life Use Class Criteria)		7440508
Cyanide	(See Site-Specific or Aquatic Life Use Class Criteria)		57125
Iron	(Reserved)	1,000[b]	7439896
Lead[7]	$(CF)e^{(1.273[\ln hardness]-1.460)}$ [c]	$(CF)e^{(1.273[\ln hardness]-4.705)}$ [d]	7439921
Mangenese	(Reserved)	1,000[b,e]	7439965
Mercury	(See Site-Specific or Aquatic Life Use Class Criteria)		7439976
Nickel	(See Site-Specific or Aquatic Life Use Class Criteria)		7440020
Selenium[8]	20[c]	5.0[d]	7782492
Silver	$(0.85)e^{(1.72[\ln hardness]-6.52)}$ [c]	(Reserved)	7440224
Thallium	1400[a]	40[b]	7440280
Zinc	(See Site-Specific or Aquatic Life Use Class Criteria)		7440666
PCBs and Related Compounds:			
PCBs	2.0[a]	0.0017[b,e]	1336363
Chlorinated Naphthalenes	1,600[a]	43,000[b,e]	.....

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Halogenated Aliphatics:			
Halomethanes	11,000[a]	157[b,c]	.....
Bromoform	(Reserved)	3,600[b,c]	75252
Methyl bromide	(Reserved)	40,000[b,c]	74839
Chloroform	28,900[a]	1,240[b]	67663
Carbon tetrachloride	35,200[a]	44.2[b,c]	56235
Methylene chloride	(Reserved)	16,000[b,c]	75092
1,2-dichloroethane	118,000[a]	986[b,c]	107062
Hexachloroethane	980[a]	89.5[b,c]	67721
Pentachloroethane	7,240[a]	1,100[b]	76017
Trichlorinated ethanes	18,000[a]	(Reserved)	25323891
1,1,2-trichloroethane	(Reserved)	419.9[b,c]	79005
Tetrachloroethanes	9,320[a]	(Reserved)	25322207
1,1,2,2-tetrachloroethane	(Reserved)	110[b,c]	79345
Dichloroethylenes	11,600[a]	(Reserved)	25323303
1,1-dichloroethylene	(Reserved)	32[b,c]	75354
1,2-trans-dichloroethylene	(Reserved)	1,400,000[b,c]	156605
Tetrachloroethylene	5,280[a]	88.5[b,c]	127184
Trichloroethylene	45,000[a]	810[b,c]	79016
Chlorodibromomethane	(Reserved)	340[b,c]	124481
Dichlorobromomethane	(Reserved)	460[b,c]	75274
Dichloropropane	23,000[a]	5,700[b]	26638197
1,2-dichloropropane	(Reserved)	390[b,c]	78875
Dichloropropene	6,060[a]	244[b]	26952238
1,3-dichloropropylene	(Reserved)	17,000[b,c]	542756
Hexachlorobutadiene	90[a]	9.3[b]	87683
Hexachlorocyclopentadiene	7.0[a]	5.2[b]	77474
Vinyl Chloride	(Reserved)	5,250[b,c]	75014

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Ethers:			
Bis(2-chloroethyl)ether	(Reserved)	14[b,c]	111444
Bis(2-chloroisopropyl)ether	(Reserved)	1,700,000[b,c]	39638329
Bis chloromethyl ether	(Reserved)	0.0078[b,c]	542881
Chloroalkyl ethers	238,000[a]	(Reserved)	.....
Haloethers	360[a]	122[b]	.....
Monocyclic Aromatics except Phenols, Cresols, and Phthalates:			
Benzene	5,300[a]	712.8[b,c]	71432
Chlorinated benzenes	250[a]	50[b]	.....
Dichlorobenzenes	1,120[a]	763[b]	25321226
Ethylbenzene	32,000[a]	290,000[b,c]	100414
Hexachlorobenzene	6.0[a]	0.0077[b,c]	118741
Nitrobenzene	27,000[a]	19,000[b,c]	98953
Pentachlorobenzene	(Reserved)	41[b,c]	608935
1,2,4,5-tetrachlorobenzene	(Reserved)	29[b,c]	95943
1,2,4-trichlorobenzene	(Reserved)	9,400[b,c]	120821
Toluene	17,500[a]	2,000,000[b,c]	108883
2,4-dinitrotoluene	330[a]	91[b,c]	121142
Phenols and Cresols:			
Phenol	10,200[a]	2,560[b]	108952
2-chlorophenol	4,380[a]	4,000[b,c]	95578
3-methyl-4-chlorophenol	30[a]	(Reserved)	59507
2,4-dichlorophenol	2,020[a]	365[b]	120832
2,4,5-trichlorophenol	100[a]	63[b]	95954
2,4,6-trichlorophenol	(Reserved)	65[b,c]	88062
Dinitrophenols	(Reserved)	140,000[b,c]	25550587
Nitrophenols	230[a]	150[b]	.....
2-methyl-4,6-dinitrophenol	(Reserved)	7,650[b,c]	534521
2,4-dinitrophenol	(Reserved)	140,000[b,c]	51285
2,4-dimethylphenol	2,120[a]	23,000[b,c]	105679

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Phthalate Esters:			
Phthalate esters	940[a]	3.0[b]	.....
Butylbenzyl phthalate	(Reserved)	52,000[b,e]	85687
Di-N-butyl phthalate	(Reserved)	120,000[b,e]	84742
Diethyl phthalate	(Reserved)	1,200,000[b,e]	84662
Di-2-ethylhexyl phthalate	2,000[a]	59.2[b,e]	117817
Dimethyl phthalate	(Reserved)	29,000,000[b,e]	131113
Polycyclic Aromatic Hydrocarbons (PAHs):			
Acenaphthene	1,700[a]	520[b]	83329
Anthracene	(Reserved)	1,100,000[b,e]	120127
Benzo(a)anthracene	(Reserved)	0.49[b,e]	56553
Benzo(a)pyrene	(Reserved)	0.49[b,e]	50328
Benzo(b)fluoranthene	(Reserved)	0.49[b,e]	205992
Benzo(k)fluoranthene	(Reserved)	0.49[b,e]	207089
Chrysene	(Reserved)	0.49[b,e]	218019
Dibenzo(a,h)anthracene	(Reserved)	0.49[b,e]	53703
Fluoranthene	3,980[a]	3,700[b,e]	206440
Fluorene	(Reserved)	140,000[b,e]	86737
Ideno(1,2,3-cd)pyrene	(Reserved)	0.49[b,e]	193395
Naphthalene	2,300[a]	620[b]	91203
2-chloronaphthalene	1,600[a]	43,000[b,e]	91587
Phenanthrene	30[a]	6.3[b]	85018
Pyrene	(Reserved)	110,000[b,e]	129000
Nitrosamines and other Nitrogen-containing Compounds:			
Nitrosamines	5,850[a]	12.4[b,e]	35576911
Benzidine	2,500[a]	0.00535[b,e]	92875
3,3-dichlorobenzidine	(Reserved)	0.77[b,e]	91941
1,2-diphenylhydrazine	270[a]	5.4[b,e]	122667
Acrylonitrile	7,550[a]	6.65[b,e]	107131
N-nitrosodibutylamine	(Reserved)	5.87[b,e]	924163
N-nitrosodiethylamine	(Reserved)	12.4[b,e]	55185
N-nitrosodimethylamine	(Reserved)	81[b,e]	62759

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
N-nitrosodiphenylamine	(Reserved)	160[b,e]	86306
N-nitrosodi-N-propylamine	(Reserved)	14.0[b,e]	621647
N-nitrosopyrrolidine	(Reserved)	919[b,e]	930552

* Chemical Abstract Services Registry Number

[a] Concentration not to be exceeded at any time
[b] Twenty-four hour average concentration
[c] One-hour average concentration
[d] Four-day average concentration
[e] Human health criteria at the 10^{-5} risk level for carcinogens based on the consumption of fish and other aquatic organisms.

[1] Benzene hexachloride or hexachlorocyclohexane
[2] Gamma-BHC
[3] Dimethyl tetrachloroterephthalate
[4] Dichlorodiphenyltrichloroethane
[5] 2,3,7,8-tetrachloro-dibenzo-p-dioxin or 2,3,7,8-TCDD
[6] Criteria for metals and inorganics apply to dissolved concentrations
[7] The conversion factor for lead (acute and chronic) is hardness dependent and defined by:

$$CF = 1.46203 - [(\ln hardness)(0.145712)]$$

[8] Criteria for selenium apply to total recoverable concentrations

003.01D Petroleum Oil.

Not to exceed 10 mg/l.

003.01E Total Dissolved Gases.

Not to exceed 110 percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures.

003.01F Hydrogen Sulfide.

Not to exceed 0.002 mg/l as undissociated hydrogen sulfide.

003.01G Biological Criteria.

Any human activity causing water pollution which would significantly degrade the biological integrity of a body of water or significantly impact or displace an identified "key species" shall not be allowed except as specified in Chapter 2.

003.01G1 Key Species.

Key species are identified endangered, threatened, sensitive, or recreationally-important aquatic species. Key species are designated by stream segment (Chapter 5). The following list defines the aquatic species considered by the Department to be key species.

COMMON NAME	SCIENTIFIC NAME
Endangered Species:	
Pallid sturgeon	*Scaphirhynchus albus*
Topeka shiner	*Notropis topeka*
Threatened Species:	
Lake sturgeon	*Acipenser fulvescens*
Northern redbelly dace	*Phoxinus eos*
Pearl dace	*Semotilus margarita*
Finescale dace	*Phoxinus neogaeus*
Blacknose shiner	*Notropis heterolepis*
Sensitive Species[1]:	
Lake chub	*Couesius plumbeus*
Brook stickleback	*Culea inconstans*
Iowa darter	*Etheostoma exile*
Johnny darter	*Etheostoma nigrum*
Orangethroat darter	*Etheostoma spectabile*
Blacknose dace	*Rhinichthys atratulus*
Grass pickerel	*Esox americanus*
Pumpkinseed	*Lepomis gibbosus*
Golden shiner	*Notemigonus crysoleucas*
Common shiner	*Notropis cornutus*

[1] Endangered, threatened, and recreationally-important aquatic species are not included.

COMMON NAME	SCIENTIFIC NAME
Recreationally-Important Species:	
Shovelnose sturgeon	*Scaphirhynchus platorynchus*
Paddlefish	*Polyodon spathula*
Brook trout	*Salvelinus fontinalis*
Brown trout	*Salmo trutta*
Rainbow trout	*Oncorhynchus mykiss*
Northern pike	*Esox lucius*
Muskellunge	*Esox masquinongy*
Blue catfish	*Ictalurus furcatus*
Channel catfish	*Ictalurus punctatus*
Flathead catfish	*Pylodictis olivaris*
Striped bass	*Morone saxatilis*
White bass	*Morone chrysops*
Rock bass	*Ambloplites rupestris*
Largemouth bass	*Micropterus salmoides*
Smallmouth bass	*Micropterus dolomieui*
Spotted bass	*Micropterus punctulatus*
Redear sunfish	*Lepomis microlophus*
Bluegill	*Lepomis macrochirus*
Black crappie	*Pomoxis nigromaculatus*
White crappie	*Pomoxis annularis*
Yellow perch	*Perca flavescens*
Sauger	*Stizostedion canadense*
Walleye	*Stizostedion vitreum vitreum*

003.02 Site-Specific Criteria for Aquatic Life.

003.02A Procedures for Developing Site-specific Water Quality Criteria.

The water quality criteria in Chapter 4 may not always reflect the toxicity of a chemical in a specific water body. These criteria also represent only a limited number of the natural and manmade chemicals that exist in the environment which may pose a threat to aquatic life. Thus, it may be necessary in some water bodies to develop new water quality criteria or modify existing criteria through site-specific analyses in order to more accurately protect the resident species.

003.02A1 The following are acceptable conditions for developing site-specific criteria.

003.02A1a Resident species of a water body are more or less sensitive than those species used to develop a water quality criterion.

003.02A1a(1) Natural adaptive processes have enabled a viable, balanced aquatic community to exist in waters where natural background levels of a chemical exceed the criterion (e.g., resident species have evolved a genetically-based greater resistance to high concentrations of a chemical).

003.02A1a(2) The composition of aquatic species in a water body is different from those used in deriving a criterion (e.g., most of the species considered among the most sensitive, such as salmonids or the cladoceran, *Daphnia magna*, which were used in developing a criterion, are absent from a water body).

003.02A1b Biological availability and/or toxicity of a chemical may be altered due to differences between the physical and/or chemical characteristics of the water in a water body and the laboratory water used in developing a criterion (e.g., alkalinity, hardness, pH, salinity, suspended solids, turbidity, water temperature).

003.02A1b(1) The effect of seasonality on the physical and/or chemical characteristics of a water body and subsequent effects on biological availability and/or toxicity of a chemical may justify seasonally dependent site-specific criteria.

003.02A2 To insure that the approach to be used in developing site-specific criteria is acceptable, the Department should be involved early in the planning of any site-specific analyses so that an agreement can be reached concerning the availability of existing data, additional data needs, methods to be used in generating new data, testing procedures to be used, schedules to be followed, and quality control and assurance provisions to be used. It is particularly important to involve the Department in the planning of site-specific analyses if a party other than the Department will be conducting the data generation and testing.

003.02A3 Site-specific criteria shall protect all life stages of resident species year-round (or seasonally for seasonally dependent criteria) and prevent acute and chronic toxicity in all parts of a water body. If site-specific criteria are seasonally dependent, the period when the criteria apply shall be clearly identified.

003.02A4 Site-specific criteria shall include both chronic and acute concentrations to better reflect the different tolerances of resident species to the inherent variability between concentrations and toxicological characteristics of a chemical.

003.02A5 Site-specific criteria shall be clearly identified as maximum "not to be exceeded" or average values, and if an average, the averaging period. The conditions, if any, when the criteria apply shall be clearly stated (e.g., specific levels of hardness, pH, or water temperature). Specific sampling requirements (e.g., location, frequency), if any, shall also be identified.

003.02A6 The following are acceptable procedures for developing site-specific criteria.

003.02A6a Site-specific analyses for the development of new water quality criteria shall be conducted in a manner which is

scientifically justifiable and consistent with the assumptions and rationale in Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and their Uses, EPA, 1985.

003.02A6b Site-specific analyses for the modification of existing water quality criteria shall be conducted in accordance with one of the following procedures. These procedures are described in Water Quality Standards Handbook, EPA, December 1983.

003.02A6b(1) Recalculation procedure. This procedure is used to account for differences in sensitivity to a chemical between resident species and those species used in deriving the criterion. Bioassays in laboratory water may be required for untested resident species. Adaptation of numerical toxics criteria to site-specific conditions is explained in Recalculation of State Toxic Criteria, EPA, November 1983.

003.02A6b(2) Indicator species procedure. This procedure is used to account for differences in biological availability and/or toxicity of a chemical between the physical and/or chemical characteristics of the water in a water body and the laboratory water used in developing the criterion. Bioassays in site water using resident species or acceptable nonresident species are required. Reconditioned laboratory water simulating site-specific water quality conditions is an acceptable substitute for site water.

003.02A6b(3) Resident species procedure. This procedure is used to account for differences in both resident species sensitivity and biological availability and/or toxicity of a chemical. Bioassays in site water using resident species are required. Reconditioned laboratory water simulating site-specific water quality conditions is an acceptable substitute for site water.

003.02A6b(4) Other scientifically defensible procedures such as relevant aquatic field studies, laboratory tests, or available scientific literature.

003.02A6b(4)(a) Deviations from EPA procedures shall have justifications which are adequately documented and based on sound scientific rationale.

003.02A6b(4)(b) The data, testing procedures, and application (safety) factors used to develop site-specific criteria shall reflect the nature of the chemical (e.g., persistency, bioaccumulation potential, and avoidance or attraction responses in fish) and the most sensitive resident species of a water body.

003.02A7 A site may be limited to the specific area affected by a point or nonpoint source of pollution; or, if water quality effects on toxicity are not a consideration, the site may be as large as a general biogeographical area permits (e.g., ecoregion, river basin, subbasin). For a number of different water bodies to be designated as one site, their respective aquatic communites cannot vary substantially in sensitivity to a chemical.

003.02B Site-Specific Water Quality Criteria.

003.02B1 Lake Ogallala (Keith County).

003.02B1a Dissolved Oxygen.

The following criteria shall apply from July 1 through October 15 as specified below. When the Kingsley Hydropower Plant is in operation (generating electricity), these criteria are based on water temperature measurements taken continuously and averaged every hour in the power house of the Kingsley Hydropower Plant and on dissolved oxygen measurements taken continuously and averaged every 10 minutes from Lake Ogallala at the midpoint of the buoy line (1987 location at the outer edge of the stilling basin) at a one meter depth. For purposes of calculating seven-day mean, seven-day mean minimum, and thirty-day mean values at the buoy line, seven-day and thirty-day calculation periods shall be based on a sequence of days not to include any day in which the Kingsley Hydropower Plant is not in operation. The following criteria may also be based on temperature and dissolved oxygen measurements taken from Lake Ogallala at any location except the metalimnion and hypolimnion when the lake exhibits thermal stratification.

003.02B1a(1) When daily mean water temperatures are 18°C or less the following criteria shall apply:

003.02B1a(1)(a) One-day minimum of not less than 3.0 mg/l.

003.02B1a(1)(b) Daily mean of not less than 4.0 mg/l and no more than 20 percent of the one-day mean values shall be less than 4.2 mg/l.

003.02B1a(1)(c) Seven-day mean of not less than 4.3 mg/l.

003.02B1a(2) When daily mean water temperatures exceed 18°C for four consecutive days of operation, the following criteria shall apply for as long as daily mean water temperatures continue to exceed 18°C. These criteria take effect on the fifth day of daily mean water temperatures exceeding 18°C.

003.02B1a(2)(a) One-day minimum of not less than 4.0 mg/l.

003.02B1a(2)(b) Daily mean of not less than 5.0 mg/l.

003.02B1a(3) When daily mean water temperatures exceed 18°C for fifteen consecutive days of operation, or when daily mean water temperatures exceed 20°C the dissolved oxygen criteria for Class B - Coldwater Aquatic Life (Chapter 4, 003.03B1) shall apply for as long as daily mean water temperatures continue to exceed 18°C. These criteria take effect on the sixteenth day of daily mean water temperatures exceeding 18°C or on the first day after daily mean water temperatures exceed 20°C.

003.02B1a(4) In implementing paragraphs 003.02B1a(2) and 003.02B1a(3), if an interruption in the operation of Kingsley Hydropower Plant exceeding 24 hours occurs during the count of days leading to a change in criteria, the count of days shall be suspended until the plant is back in operation. The first new day of operation shall be counted as the next consecutive day in the original count of days.

003.02B1b Dissolved oxygen criteria for Class B - Coldwater Aquatic Life (Chapter 4, 003.03B1) shall apply during the period of October 16 through June 30.

003.02B2 Platte River - Confluence of North and South Platte Rivers to Missouri River (segments MP1-10000, MP1-20000, MP2-10000, MP2-20000, MP2-30000, and MP2-40000, Middle Platte River Basin; segments LP1-10000 and LP1-20000, Lower Platte River Basin); Salt Creek - Hickman Branch to Platte River (segments LP2-10000, LP2-20000, and LP2-30000, Lower Platte River Basin); Wood River - Grand Island Utilities Ditch to Platte River (segment MP2-10100, Middle Platte River Basin); Loup River - Loup River Canal Diversion to Platte River (segments LO1-10000 and LO1-20000, Loup River Basin); and Republican River - Frenchman Creek to Nebraska-Kansas border (Sec 32-1N-6W) (segments RE1-10000, RE1-20000, RE1-30000, RE1-40000, RE1-50000, RE2-10000, RE3-10000, and RE3-20000, Republican River Basin).

003.02B2a Total Ammonia (as nitrogen).

003.02B2a(1) One-hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (11.29)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

003.02B2a(1)(a) The following table shows one-hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	62.964
6.8	56.449
7.0	48.514
7.2	39.705
7.4	30.877
7.6	22.894
7.8	16.316
8.0	11.301
8.2	7.698
8.4	5.219
8.6	3.563
8.8	2.479
9.0	1.779

003.02B2a(2) Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or } 1.45\cdot 10^{0.028(25\ -\ \text{Temp})}\right\}\right)$$

during periods when early life stages are present (March through October), or

$$CCC = 0.854\left(1.45\cdot 10^{0.028\{25\ -\ \text{Maximum of}\ \{\text{Temp, or } 7\}\}}\right)$$

during periods when early life stages are absent (November through February.

003.02B2a(2)(a) The highest four-day average concentration within a thirty-day period shall not exceed 2.5 times the thirty-day criterion.

003.02B2a(2)(b) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs for periods when early life stages are present (March through October) and when early life stages are absent (November through February).

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)

Italicized numbers in parentheses apply when Early Life Stages are Absent (November through February). Early Life Stage Absent criteria are identical to Early Life Stages Present criteria at temperatures greater than 14.5°C.

Temperature (°C) \ pH	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
2.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
4.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
6.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
8.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(9.99)	*(9.58)*	*(9.00)*	*(8.20)*	*(7.21)*	*(6.05)*	*(4.84)*	*(3.70)*	*(2.73)*	*(1.96)*	*(1.40)*	*(1.01)*	*(0.74)*
10.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(8.79)	*(8.42)*	*(7.91)*	*(7.21)*	*(6.33)*	*(5.32)*	*(4.26)*	*(3.26)*	*(2.40)*	*(1.73)*	*(1.23)*	*(0.88)*	*(0.65)*
12.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(7.72)	*(7.40)*	*(6.95)*	*(6.34)*	*(5.57)*	*(4.68)*	*(3.74)*	*(2.86)*	*(2.11)*	*(1.52)*	*(1.08)*	*(0.78)*	*(0.57)*
14.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(6.79)	*(6.51)*	*(6.11)*	*(5.57)*	*(4.89)*	*(4.11)*	*(3.29)*	*(2.52)*	*(1.85)*	*(1.33)*	*(0.95)*	*(0.68)*	*(0.50)*
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.02B3 Big Blue River - Lincoln Creek to Nebraska-Kansas border (Sec 35-1N-7E) (segments BB1-10000, BB1-20000, BB4-10000, and BB4-20000, Big Blue River Basin) and Lost Creek - Shonka Ditch to Platte River (segment LP1-21000, Lower Platte River Basin).

003.02B3a Total Ammonia (as nitrogen).

003.02B3a(1) One-hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (11.69)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

003.02B3a(1)(a) The following table shows one-hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	65.161
6.8	58.418
7.0	50.206
7.2	41.090
7.4	31.954
7.6	23.692
7.8	16.885
8.0	11.695
8.2	7.966
8.4	5.401
8.6	3.687
8.8	2.566
9.0	1.842

003.02B3a(2) Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or } 1.45\cdot 10^{0.028\,(25\,-\,\text{Temp})}\right\}\right)$$

during periods when early life stages are present (March through October), or

$$CCC = 0.854\left(1.45\cdot 10^{0.028\left(25\,-\,\text{Maximum of}\left\{\text{Temp, or } 7\right\}\right)}\right)$$

during periods when early life stages are absent (November through February.

003.02B3a(2)(a) The highest four-day average concentration within a thirty day period shall not exceed 2.5 times the thirty-day criterion.

003.02B3a(2)(b) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs for periods when early life stages are present (March through October) and when early life stages are absent (November through February).

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)

Italicized numbers in parentheses apply when Early Life Stages are Absent (November through February). Early Life Stage Absent criteria are identical to Early Life Stages Present criteria at temperatures greater than 14.5°C.

Temperature (°C)	pH 6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
2.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
4.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
6.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
8.0	6.56	6.29	5.91.	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(9.99)	*(9.58)*	*(9.00)*	*(8.20)*	*(7.21)*	*(6.05)*	*(4.84)*	*(3.70)*	*(2.73)*	*(1.96)*	*(1.40)*	*(1.01)*	*(0.74)*
10.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(8.79)	*(8.42)*	*(7.91)*	*(7.21)*	*(6.33)*	*(5.32)*	*(4.26)*	*(3.26)*	*(2.40)*	*(1.73)*	*(1.23)*	*(0.88)*	*(0.65)*
12.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(7.72)	*(7.40)*	*(6.95)*	*(6.34)*	*(5.57)*	*(4.68)*	*(3.74)*	*(2.86)*	*(2.11)*	*(1.52)*	*(1.08)*	*(0.78)*	*(0.57)*
14.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(6.79)	*(6.51)*	*(6.11)*	*(5.57)*	*(4.89)*	*(4.11)*	*(3.29)*	*(2.52)*	*(1.85)*	*(1.33)*	*(0.95)*	*(0.68)*	*(0.50)*
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.02B4 Little Blue River - Spring Creek to Big Sandy Creek (segment LB2-10000, Little Blue River Basin); Elkhorn River - Cedar Creek to Platte River (segments EL1-10000, EL1-20000, and EL4-10000, Elkhorn River Basin); Logan Creek - South Logan Creek to Elkhorn River (segments EL2-10000 and EL2-20000, Elkhorn River Basin); and South Logan Creek - Dog Creek to Logan Creek (segment EL2-20800, Elkhorn River Basin).

003.02B4a Total Ammonia (as nitrogen).

003.02B4a(1) One-hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (9.59)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

003.02B4a(1)(a) The following table shows one-hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	53.447
6.8	47.916
7.0	41.180
7.2	33.703
7.4	26.210
7.6	19.433
7.8	13.850
8.0	9.593
8.2	6.534
8.4	4.430
8.6	3.025
8.8	2.105
9.0	1.510

003.02B4a(2) Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or } 1.45\cdot 10^{0.028(25\ -\ \text{Temp})}\right\}\right)$$

during periods when early life stages are present (March through October), or

$$CCC = 0.854\left(1.45\cdot 10^{0.028\left(25\ -\ \text{Maximum of}\left\{\text{Temp, or } 7\right\}\right)}\right)$$

during periods when early life stages are absent (November through February.

003.02B4a(2)(a) The highest four-day average concentration within a thirty-day period shall not exceed 2.5 times the thirty-day criterion.

003.02B4a(2)(b) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs for periods when early life stages are present (March through October) and when early life stages are absent (November through February).

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)

Italicized numbers in parentheses apply when Early Life Stages are Absent (November through February). Early Life Stage Absent criteria are identical to Early Life Stages Present criteria at temperatures greater than 14.5°C.

Temperature (°C) \ pH	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
2.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
4.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
6.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
8.0	6.56 *(9.99)*	6.29 *(9.58)*	5.91 *(9.00)*	5.39 *(8.20)*	4.73 *(7.21)*	3.98 *(6.05)*	3.18 *(4.84)*	2.43 *(3.70)*	1.79 *(2.73)*	1.29 *(1.96)*	0.92 *(1.40)*	0.66 *(1.01)*	0.49 *(0.74)*
10.0	6.56 *(8.79)*	6.29 *(8.42)*	5.91 *(7.91)*	5.39 *(7.21)*	4.73 *(6.33)*	3.98 *(5.32)*	3.18 *(4.26)*	2.43 *(3.26)*	1.79 *(2.40)*	1.29 *(1.73)*	0.92 *(1.23)*	0.66 *(0.88)*	0.49 *(0.65)*
12.0	6.56 *(7.72)*	6.29 *(7.40)*	5.91 *(6.95)*	5.39 *(6.34)*	4.73 *(5.57)*	3.98 *(4.68)*	3.18 *(3.74)*	2.43 *(2.86)*	1.79 *(2.11)*	1.29 *(1.52)*	0.92 *(1.08)*	0.66 *(0.78)*	0.49 *(0.57)*
14.0	6.56 *(6.79)*	6.29 *(6.51)*	5.91 *(6.11)*	5.39 *(5.57)*	4.73 *(4.89)*	3.98 *(4.11)*	3.18 *(3.29)*	2.43 *(2.52)*	1.79 *(1.85)*	1.29 *(1.33)*	0.92 *(0.95)*	0.66 *(0.68)*	0.49 *(0.50)*
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.02B5 Union Creek - Taylor Creek to Elkhorn River (segments EL1-21900 and EL1-22000, Elkhorn River Basin).

003.02B5a Total Ammonia (as nitrogen).

003.02B5a(1) One hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (10.11)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

*003.02B5a(1)(a) The following table shows one-*hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	56.375
6.8	50.542
7.0	43.437
7.2	35.549
7.4	27.646
7.6	20.498
7.8	14.609
8.0	10.118
8.2	6.892
8.4	4.673
8.6	3.190
8.8	2.220
9.0	1.593

003.02B5a(2) Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or}\ 1.45\cdot 10^{0.028\,(25\ -\ \text{Temp})}\right\}\right)$$

during periods when early life stages are present (March through October), or

$$CCC = 0.854\left(1.45\cdot 10^{0.028\left(25\ -\ \text{Maximum of}\left\{\text{Temp, or } 7\right\}\right)}\right)$$

during periods when early life stages are absent (November through February.

003.02B5a(2)(a) The highest four-day average concentration within a thirty-day period shall not exceed 2.5 times the thirty-day criterion.

003.02B5a(2)(b) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs for periods when early life stages are present (March through October) and when early life stages are absent (November through February).

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)

Italicized numbers in parentheses apply when Early Life Stages are Absent (November through February). Early Life Stage Absent criteria are identical to Early Life Stages Present criteria at temperatures greater than 14.5°C.

Temperature (°C) \ pH	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
2.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
4.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
6.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(10.66)	*(10.22)*	*(9.60)*	*(8.75)*	*(7.69)*	*(6.46)*	*(5.17)*	*(3.95)*	*(2.91)*	*(2.09)*	*(1.49)*	*(1.07)*	*(0.79)*
8.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(9.99)	*(9.58)*	*(9.00)*	*(8.20)*	*(7.21)*	*(6.05)*	*(4.84)*	*(3.70)*	*(2.73)*	*(1.96)*	*(1.40)*	*(1.01)*	*(0.74)*
10.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(8.79)	*(8.42)*	*(7.91)*	*(7.21)*	*(6.33)*	*(5.32)*	*(4.26)*	*(3.26)*	*(2.40)*	*(1.73)*	*(1.23)*	*(0.88)*	*(0.65)*
12.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(7.72)	*(7.40)*	*(6.95)*	*(6.34)*	*(5.57)*	*(4.68)*	*(3.74)*	*(2.86)*	*(2.11)*	*(1.52)*	*(1.08)*	*(0.78)*	*(0.57)*
14.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
	(6.79)	*(6.51)*	*(6.11)*	*(5.57)*	*(4.89)*	*(4.11)*	*(3.29)*	*(2.52)*	*(1.85)*	*(1.33)*	*(0.95)*	*(0.68)*	*(0.50)*
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.02B6 Johnson Creek - Headwaters to Turkey Creek (segments NE2-12132 and NE2-12133, Nemaha River Basin).

003.02B6a Dissolved Zinc.

003.02B6a(1) One-hour average concentration in ug/l not to exceed the numerical value given by $(0.978)e^{(0.8473[\ln hardness]+1.7247)}$.

003.02B6a(2) Four-day average concentration in ug/l not to exceed the numerical value given by $(0.986)e^{(0.8473[\ln hardness]+1.6257)}$.

003.03 Coldwater Aquatic Life Use Class Specific Criteria.

These are waters which provide, or could provide, a habitat consisting of sufficient water volume or flow, water quality, and other characteristics such as substrate composition which are capable of maintaining year-round populations of coldwater biota. Coldwater biota are considered to be life forms in waters where temperatures seldom exceed 25°C (77°F).

003.03A Class A - Coldwater.

These waters provide a habitat which supports natural reproduction of a salmonid (trout) population. These waters also are capable of maintaining year-round populations of a variety of other coldwater fish and associated vertebrate and invertebrate organisms and plants.

003.03A1 Dissolved Oxygen.

003.03A1a One-day minimum of not less than 8.0 mg/l for salmonid early-life stages. This criterion applies from October 1 through May 31.

003.03A1b One-day minimum of not less than 4.0 mg/l for all life stages other than salmonid early-life stages. This criterion applies from June 1 through September 30.

003.03A1c Seven-day mean minimum of not less than 5.0 mg/l. This criterion applies from June 1 through September 30.

003.03A1d Seven-day mean of not less than 9.5 mg/l for salmonid early-life stages. This criterion applies from October 1 through May 31.

003.03A1e Thirty-day mean of not less than 6.5 mg/l. This criterion applies from June 1 through September 30.

003.03A2 Total Ammonia (as nitrogen).

003.03A2a One-hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (5.62)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

003.03A2a(1) The following table shows one-hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	31.302
6.8	28.063
7.0	24.118
7.2	19.739
7.4	15.350
7.6	11.381
7.8	8.111
8.0	5.618
8.2	3.827
8.4	2.594
8.6	1.771
8.8	1.233
9.0	0.885

003.03A2b Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or } 1.45 \cdot 10^{0.028(25\ -\ Temp)}\right\}\right)$$

003.03A2b(1) The highest four-day average concentration within a thirty-day period shall not exceed 2.5 times the thirty-day criterion.

003.03A2b(2) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs.

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)
Coldwater Aquatic Life Use Class

Temperature (°C) \ pH	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
2.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
4.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
6.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
8.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
10.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
12.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
14.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.03A3 Residual Chlorine.

003.03A3a One-hour average concentration not to exceed 35 ug/l.

003.03A3b Four-day average concentration not to exceed 21 ug/l.

003.03A4 Toxic Substances.

003.03A4a The following numerical criteria shall not be exceeded.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic
Metals and Inorganics[1]:		
Cadmium[2]	$(ACF)e^{(1.128[\ln hardness]-3.828)}$ [a]	$(CCF)e^{(0.7852[\ln hardness]-3.490)}$ [b]
Chromium (III)	$(0.316)e^{(0.819[\ln hardness]+3.688)}$ [a]	$(0.860)e^{(.0819[\ln hardness]+1.561)}$ [b]
Chromium (VI)	33.39[a]	22.13[b]
Copper	$(0.960)e^{(0.9422[\ln hardness]-0.9915)}$ [a]	$(0.960)e^{(.08545[\ln hardness]-0.9931)}$ [b]
Cyanide	22[a]	5.2[b]
Mercury[3]	3.74[a]	0.012[b]
Nickel	$(0.998)e^{(0.846[\ln hardness]+4.3527)}$ [a]	$(0.997)e^{(0.846[\ln hardness]+2.156)}$ [b]
Zinc	$(0.978)e^{(0.8473[\ln hardness]+1.7247)}$ [a]	$(0.986)e^{(0.8473[\ln hardness]+1.6257)}$ [b]

[a] One-hour average concentration
[b] Four-day average concentration
[1] Criteria for metals and inorganics apply to dissolved concentrations
[2] The conversion factors for cadmium are hardness dependent and defined by:
ACF = 1.136672-[ln *hardness* (0.041838)]
CCF = 1.101672-[ln *hardness* (0.041838)]
[3] Chronic criterion for mercury applies to total recoverable concentrations

003.03B Class B - Coldwater.

These are waters which provide, or could provide, a habitat capable of maintaining year-round populations of a variety of coldwater fish and associated vertebrate and invertebrate organisms and plants or which support the seasonal migration of salmonids. These waters do not support natural reproduction of salmonid populations due to limitations of flow, substrate composition, or other habitat conditions, but salmonid populations may be maintained year-round if periodically stocked.

003.03B1 Dissolved Oxygen.

003.03B1a One-day minimum of not less than 5.0 mg/l for coldwater fish early-life stages. This criterion applies from April 1 through June 30.

003.03B1b One-day minimum of not less than 4.0 mg/l for all life stages other than coldwater fish early-life stages. This criterion applies from July 1 through March 31.

003.03B1c Seven-day mean minimum of not less than 5.0 mg/l. This criterion applies from July 1 through March 31.

003.03B1d Seven-day mean of not less than 6.5 mg/l for coldwater fish early-life stages. This criterion applies from April 1 through June 30.

003.03B1e Thirty-day mean of not less than 6.5 mg/l. This criterion applies from July 1 through March 31.

003.03B2 Total Ammonia (as nitrogen).

003.03B2a One-hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (5.62)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

003.03B2a(1) The following table shows one-hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	31.302
6.8	28.063
7.0	24.118
7.2	19.739
7.4	15.350
7.6	11.381
7.8	8.111
8.0	5.618
8.2	3.827
8.4	2.594
8.6	1.771
8.8	1.233
9.0	0.885

003.03B2b Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or}\ 1.45 \cdot 10^{0.028(25\ -\ Temp)}\right\}\right)$$

003.03B2b(1) The highest four-day average concentration within a thirty-day period shall not exceed 2.5 times the thirty-day criterion.

003.03B2b(2) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs.

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)
Coldwater Aquatic Life Use Class

Temperature (°C) \ pH	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
2.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
4.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
6.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
8.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
10.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
12.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
14.0	6.56	6.29	5.91	5.39	4.73	3.98	3.18	2.43	1.79	1.29	0.92	0.66	0.49
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.03B3 Residual Chlorine.

003.03B3a Lakes and Impounded Waters.

003.03B3a(1) One-hour average concentration not to exceed 19 ug/l.

003.03B3a(2) Four-day average concentration not to exceed 11 ug/l.

003.03B3b Streams.

003.03B3b(1) One-hour average concentration not to exceed 35 ug/l.

003.03B3b(2) Four-day average concentration not to exceed 21 ug/l.

003.03B4 Toxic Substances.

003.03B4a The following numerical criteria for lakes and impounded waters shall not be exceeded.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic
Metals and Inorganics[1]:		
Cadmium[2]	$(ACF)e^{(1.128[\ln hardness]-3.828)}$ [a]	$(CCF)e^{(0.7852[\ln hardness]-3.490)}$ [b]
Chromium (III)	$(0.316)e^{(0.819[\ln hardness]+3.688)}$ [a]	$(0.860)e^{(.0819[\ln hardness]+1.561)}$ [b]
Chromium (VI)	15.71[a]	10.58[b]
Copper	$(0.960)e^{(0.9422[\ln hardness]-1.464)}$ [a]	$(0.960)e^{(.08545[\ln hardness]-1.465)}$ [b]
Cyanide	22[a]	5.2[b]
Mercury[3]	2.04[a]	0.012[b]
Nickel	$(0.998)e^{(0.846[\ln hardness]+3.3612)}$ [a]	$(0.997)e^{(0.846[\ln hardness]+1.1645)}$ [b]
Zinc	$(0.978)e^{(0.8473[\ln hardness]+0.8604)}$ [a]	$(0.986)e^{(0.8473[\ln hardness]+0.7614)}$ [b]

[a] One-hour average concentration
[b] Four-day average concentration
[1] Criteria for metals and inorganics apply to dissolved concentrations
[2] The conversion factors for cadmium are hardness dependent and defined by:

ACF = 1.136672-[ln *hardness* (0.041838)]

CCF = 1.101672-[ln *hardness* (0.041838)]

[3] Chronic criterion for mercury applies to total recoverable concentrations

003.03B4b The following numerical criteria for streams shall not be exceeded.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic
Metals and Inorganics[1]:		
Cadmium[2]	$(ACF)e^{(1.128[\ln hardness]-3.828)}$ [a]	$(CCF)e^{(0.7852[\ln hardness]-3.490)}$ [b]
Chromium (III)	$(0.316)e^{(0.819[\ln hardness]+3.688)}$ [a]	$(0.860)e^{(.0819[\ln hardness]+1.561)}$ [b]
Chromium (VI)	33.39[a]	22.13[b]
Copper	$(0.960)e^{(0.9422[\ln hardness]-0.9915)}$ [a]	$(0.960)e^{(.08545[\ln hardness]-0.9931)}$ [b]
Cyanide	22[a]	5.2[b]
Mercury[3]	3.74[a]	0.012[b]
Nickel	$(0.998)e^{(0.846[\ln hardness]+4.3527)}$ [a]	$(0.997)e^{(0.846[\ln hardness]+2.156)}$ [b]
Zinc	$(0.978)e^{(0.8473[\ln hardness]+1.7247)}$ [a]	$(0.986)e^{(0.8473[\ln hardness]+1.6257)}$ [b]

[a] One-hour average concentration
[b] Four-day average concentration
[1] Criteria for metals and inorganics apply to dissolved concentrations
[2] The conversion factors for cadmium are hardness dependent and defined by:
ACF = 1.136672-[ln *hardness* (0.041838)]
CCF = 1.101672-[ln *hardness* (0.041838)]
[3] Chronic criterion for mercury applies to total recoverable concentrations

003.04 Warmwater Aquatic Life Use Class Specific Criteria.

These are waters which provide, or could provide, a habitat consisting of sufficient water volume or flow, water quality, and other characteristics such as substrate composition which are capable of maintaining year-round populations of warmwater biota. Warmwater biota are considered to be life forms in waters where temperatures frequently exceed 25°C (77°F).

003.04A Class A - Warmwater.

These waters provide, or could provide, a habitat suitable for maintaining one or more identified key species on a year-round basis. These waters also are capable of maintaining year-round populations of a variety of other warmwater fish and associated vertebrate and invertebrate organisms and plants.

003.04A1 Dissolved Oxygen.

003.04A1a One-day minimum of not less than 5.0 mg/l for early-life stages. *This criterion applies from April 1 through September 30.*

003.04A1b One-day minimum of not less than 3.0 mg/l for all life stages other than early-life stages. This criterion applies from October 1 through March 31.

003.04A1c Seven-day mean minimum of not less than 4.0 mg/l. This criterion applies from October 1 through March 31.

003.04A1d Seven-day mean of not less than 6.0 mg/l for early-life stages. This criterion applies from April 1 through September 30.

003.04A1e Thirty-day mean of not less than 5.5 mg/l. This criterion applies from October 1 through March 31.

003.04A2 Total Ammonia (as nitrogen).

003.04A2a One-hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (8.80)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

003.04A2a(1) The following table shows one-hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	49.030
6.8	43.956
7.0	37.777
7.2	30.917
7.4	24.044
7.6	17.827
7.8	12.705
8.0	8.800
8.2	5.994
8.4	4.064
8.6	2.775
8.8	1.931
9.0	1.386

003.04A2b Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or } 1.45\cdot 10^{0.028(25\ -\ \text{Temp})}\right\}\right)$$

during periods when early life stages are present (March through October), or

$$CCC = 0.854\left(1.45\cdot 10^{0.028\left(25\ -\ \text{Maximum of}\left\{\text{Temp, or } 7\right\}\right)}\right)$$

during periods when early life stages are absent (November through February.

003.04A2b(1) The highest four-day average concentration within a thirty-day period shall not exceed 2.5 times the thirty-day criterion.

003.04A2b(2) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs for periods when early life stages are present (March through October) and when early life stages are absent (November through February).

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)

Italicized numbers in parentheses apply when Early Life Stages are Absent (November through February). Early Life Stage Absent criteria are identical to Early Life Stages Present criteria at temperatures greater than 14.5°C.

Temperature (°C)	pH 6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
2.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
4.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
6.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
8.0	6.56 *(9.99)*	6.29 *(9.58)*	5.91 *(9.00)*	5.39 *(8.20)*	4.73 *(7.21)*	3.98 *(6.05)*	3.18 *(4.84)*	2.43 *(3.70)*	1.79 *(2.73)*	1.29 *(1.96)*	0.92 *(1.40)*	0.66 *(1.01)*	0.49 *(0.74)*
10.0	6.56 *(8.79)*	6.29 *(8.42)*	5.91 *(7.91)*	5.39 *(7.21)*	4.73 *(6.33)*	3.98 *(5.32)*	3.18 *(4.26)*	2.43 *(3.26)*	1.79 *(2.40)*	1.29 *(1.73)*	0.92 *(1.23)*	0.66 *(0.88)*	0.49 *(0.65)*
12.0	6.56 *(7.72)*	6.29 *(7.40)*	5.91 *(6.95)*	5.39 *(6.34)*	4.73 *(5.57)*	3.98 *(4.68)*	3.18 *(3.74)*	2.43 *(2.86)*	1.79 *(2.11)*	1.29 *(1.52)*	0.92 *(1.08)*	0.66 *(0.78)*	0.49 *(0.57)*
14.0	6.56 *(6.79)*	6.29 *(6.51)*	5.91 *(6.11)*	5.39 *(5.57)*	4.73 *(4.89)*	3.98 *(4.11)*	3.18 *(3.29)*	2.43 *(2.52)*	1.79 *(1.85)*	1.29 *(1.33)*	0.92 *(0.95)*	0.66 *(0.68)*	0.49 *(0.50)*
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.04A3 Residual Chlorine.

003.04A3a Lakes and Impounded Waters.

003.04A3a(1) One-hour average concentration not to exceed 19 ug/l.

003.04A3a(2) Four-day average concentration not to exceed 11 ug/l.

003.04A3b Streams.

003.04A3b(1) One-hour average concentration not to exceed 36 ug/l.

003.04A3b(2) Four-day average concentration not to exceed 22 ug/l.

003.04A4 Toxic Substances.

003.04A4a The following numerical criteria for lakes and impounded waters shall not be exceeded.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic
Metals and Inorganics[1]:		
Cadmium[2]	$(ACF)e^{(1.128[\ln hardness]-1.7637)}$ [a]	$(CCF)e^{(0.7852[\ln hardness]-3.490)}$ [b]
Chromium (III)	$(0.316)e^{(0.819[\ln hardness]+3.688)}$ [a]	$(0.860)e^{(.0819[\ln hardness]+1.561)}$ [b]
Chromium (VI)	15.71[a]	10.58[b]
Copper	$(0.960)e^{(0.9422[\ln hardness]-1.464)}$ [a]	$(0.960)e^{(.08545[\ln hardness]-1.465)}$ [b]
Cyanide	45[a]	11[b]
Mercury[3]	2.04[a]	0.012[b]
Nickel	$(0.998)e^{(0.846[\ln hardness]+3.3612)}$ [a]	$(0.997)e^{(0.846[\ln hardness]+1.1645)}$ [b]
Zinc	$(0.978)e^{(0.8473[\ln hardness]+0.8604)}$ [a]	$(0.986)e^{(0.8473[\ln hardness]+0.7614)}$ [b]

[a] One-hour average concentration
[b] Four-day average concentration
[1] Criteria for metals and inorganics apply to dissolved concentrations
[2] The conversion factors for cadmium are hardness dependent and defined by:

ACF = 1.136672-[ln *hardness* (0.041838)]

CCF = 1.101672-[ln *hardness* (0.041838)]

[3] Chronic criterion for mercury applies to total recoverable concentrations

003.04A4b The following numerical criteria for streams shall not be exceeded.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic
Metals and Inorganics[1]:		
Cadmium[2]	$(ACF)e^{(1.128[\ln hardness]-1.6881)}$ [a]	$(CCF)e^{(0.7852[\ln hardness]-1.2951)}$ [b]
Chromium (III)	$(0.316)e^{(0.819[\ln hardness]+3.7437)}$ [a]	$(0.860)e^{(.0819[\ln hardness]+1.561)}$ [b]
Chromium (VI)	309.3[a]	207.8[b]
Copper	$(0.960)e^{(0.9422[\ln hardness]-0.6289)}$ [a]	$(0.960)e^{(.08545[\ln hardness]-0.6305)}$ [b]
Cyanide	41[a]	10[b]
Mercury[3]	8.76[a]	0.012[b]
Nickel	$(0.998)e^{(0.846[\ln hardness]+4.0970)}$ [a]	$(0.997)e^{(0.846[\ln hardness]+1.9003)}$ [b]
Zinc	$(0.978)e^{(0.8473[\ln hardness]+3.1217)}$ [a]	$(0.986)e^{(0.8473[\ln hardness]+3.0227)}$ [b]

[a] One-hour average concentration
[b] Four-day average concentration
[1] Criteria for metals and inorganics apply to dissolved concentrations
[2] The conversion factors for cadmium are hardness dependent and defined by:

ACF = 1.136672-[ln *hardness* (0.041838)]

CCF = 1.101672-[ln *hardness* (0.041838)]

[3] Chronic criterion for mercury applies to total recoverable concentrations

003.04B Class B - Warmwater.

These are waters where the variety of warmwater biota is presently limited by water volume or flow, water quality (natural or irretrievable human-induced conditions), substrate composition, or other habitat conditions. These waters are only capable of maintaining year-round populations of tolerant warmwater fish and associated vertebrate and invertebrate organisms and plants. Key species may be supported on a seasonal or intermittent basis (e.g., during high flows) but year-round populations cannot be maintained.

003.04B1 Dissolved Oxygen.

003.04B1a One-day minimum of not less than 5.0 mg/l for early-life stages. This criterion applies from April 1 through September 30.

003.04B1b One-day minimum of not less than 3.0 mg/l for all life stages other than early-life stages. This criterion applies from October 1 through March 31.

003.04B1c Seven-day mean minimum of not less than 4.0 mg/l. This criterion applies from October 1 through March 31.

003.04B1d Seven-day mean of not less than 6.0 mg/l for early-life stages. This criterion applies from April 1 through September 30.

003.04B1e Thirty-day mean of not less than 5.5 mg/l. This criterion applies from October 1 through March 31.

003.04B2 Total Ammonia (as nitrogen).

003.04B2a One-hour average concentration in mg/l not to exceed the numerical value given by

$$AV = (12.08)\left(\frac{0.0489}{1+10^{7.204-pH}} + \frac{6.95}{1+10^{pH-7.204}}\right)$$

003.04B2a(1) The following table shows one-hour average criteria for total ammonia at various pHs.

pH	Total Ammonia mg/l
6.6	67.357
6.8	60.387
7.0	51.898
7.2	42.475
7.4	33.031
7.6	24.491
7.8	17.455
8.0	12.089
8.2	8.235
8.4	5.583
8.6	3.812
8.8	2.652
9.0	1.904

003.04B2b Thirty-day average concentration in mg/l not to exceed the numerical value given by

$$CV = CCC\left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.91}{1+10^{pH-7.688}}\right)$$

where Temp is °C and:

$$CCC = 0.854\left(\text{Minimum of}\left\{2.85,\ \text{or}\ 1.45\cdot 10^{0.028\,(25\ -\ \text{Temp})}\right\}\right)$$

during periods when early life stages are present (March through October), or

$$CCC = 0.854\left(1.45\cdot 10^{0.028\left(25\ -\ \text{Maximum of}\left\{\text{Temp, or } 7\right\}\right)}\right)$$

during periods when early life stages are absent (November through February.

003.04B2b(1) The highest four-day average concentration within a thirty-day period shall not exceed 2.5 times the thirty-day criterion.

003.04B2b(2) The following table shows thirty-day average criteria for total ammonia at various temperatures and pHs for periods when early life stages are present (March through October) and when early life stages are absent (November through February).

THIRTY-DAY AVERAGE CRITERIA FOR TOTAL AMMONIA (mg/l)

Italicized numbers in parentheses apply when Early Life Stages are Absent (November through February). Early Life Stage Absent criteria are identical to Early Life Stages Present criteria at temperatures greater than 14.5°C.

Temperature (°C) \ pH	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0
0.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
2.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
4.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
6.0	6.56 *(10.66)*	6.29 *(10.22)*	5.91 *(9.60)*	5.39 *(8.75)*	4.73 *(7.69)*	3.98 *(6.46)*	3.18 *(5.17)*	2.43 *(3.95)*	1.79 *(2.91)*	1.29 *(2.09)*	0.92 *(1.49)*	0.66 *(1.07)*	0.49 *(0.79)*
8.0	6.56 *(9.99)*	6.29 *(9.58)*	5.91 *(9.00)*	5.39 *(8.20)*	4.73 *(7.21)*	3.98 *(6.05)*	3.18 *(4.84)*	2.43 *(3.70)*	1.79 *(2.73)*	1.29 *(1.96)*	0.92 *(1.40)*	0.66 *(1.01)*	0.49 *(0.74)*
10.0	6.56 *(8.79)*	6.29 *(8.42)*	5.91 *(7.91)*	5.39 *(7.21)*	4.73 *(6.33)*	3.98 *(5.32)*	3.18 *(4.26)*	2.43 *(3.26)*	1.79 *(2.40)*	1.29 *(1.73)*	0.92 *(1.23)*	0.66 *(0.88)*	0.49 *(0.65)*
12.0	6.56 *(7.72)*	6.29 *(7.40)*	5.91 *(6.95)*	5.39 *(6.34)*	4.73 *(5.57)*	3.98 *(4.68)*	3.18 *(3.74)*	2.43 *(2.86)*	1.79 *(2.11)*	1.29 *(1.52)*	0.92 *(1.08)*	0.66 *(0.78)*	0.49 *(0.57)*
14.0	6.56 *(6.79)*	6.29 *(6.51)*	5.91 *(6.11)*	5.39 *(5.57)*	4.73 *(4.89)*	3.98 *(4.11)*	3.18 *(3.29)*	2.43 *(2.52)*	1.79 *(1.85)*	1.29 *(1.33)*	0.92 *(0.95)*	0.66 *(0.68)*	0.49 *(0.50)*
15.0	6.36	6.10	5.73	5.22	4.59	3.85	3.08	2.36	1.74	1.25	0.89	0.64	0.47
16.0	5.97	5.72	5.37	4.90	4.30	3.61	2.89	2.21	1.63	1.17	0.84	0.60	0.44
18.0	5.25	5.03	4.72	4.31	3.78	3.18	2.54	1.94	1.43	1.03	0.73	0.53	0.39
20.0	4.61	4.42	4.15	3.78	3.32	2.79	2.23	1.71	1.26	0.91	0.65	0.46	0.34
22.0	4.05	3.89	3.65	3.33	2.92	2.45	1.96	1.50	1.11	0.80	0.57	0.41	0.30
24.0	3.56	3.42	3.21	2.92	2.57	2.16	1.73	1.32	0.97	0.70	0.50	0.36	0.26
26.0	3.13	3.00	2.82	2.57	2.26	1.90	1.52	1.16	0.86	0.62	0.44	0.32	0.23
28.0	2.75	2.64	2.48	2.26	1.98	1.67	1.33	1.02	0.75	0.54	0.39	0.28	0.20
30.0	2.42	2.32	2.18	1.99	1.74	1.47	1.17	0.90	0.66	0.48	0.34	0.24	0.18

003.04B3 Residual Chlorine.

003.04B3a One-hour average concentration not to exceed 39 ug/l.

003.04B3b Four-day average concentration not to exceed 23 ug/l.

003.04B4 Toxic Substances.

003.04B4a The following numerical criteria shall not be exceeded.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic
Metals and Inorganics[1]:		
Cadmium[2]	$(ACF)e^{(1.128[\ln hardness]-1.6881)}$ [a]	$(CCF)e^{(0.7852[\ln hardness]-1.2951)}$ [b]
Chromium (III)	$(0.316)e^{(0.819[\ln hardness]+3.7437)}$ [a]	$(0.860)e^{(.0819[\ln hardness]+1.561)}$ [b]
Chromium (VI)	309.3[a]	207.8[b]
Copper	$(0.960)e^{(0.9422[\ln hardness]-0.6289)}$ [a]	$(0.960)e^{(.08545[\ln hardness]-0.6305)}$ [b]
Cyanide	41[a]	10[b]
Mercury[3]	8.76[a]	0.012[b]
Nickel	$(0.998)e^{(0.846[\ln hardness]+4.0970)}$ [a]	$(0.997)e^{(0.846[\ln hardness]+1.9003)}$ [b]
Zinc	$(0.978)e^{(0.8473[\ln hardness]+3.1217)}$ [a]	$(0.986)e^{(0.8473[\ln hardness]+3.0227)}$ [b]

[a] One-hour average concentration
[b] Four-day average concentration
[1] Criteria for metals and inorganics apply to dissolved concentrations
[2] The conversion factors for cadmium are hardness dependent and defined by:
ACF = 1.136672-[ln *hardness* (0.041838)]
CCF = 1.101672-[ln *hardness* (0.041838)]
[3] Chronic criterion for mercury applies to total recoverable concentrations

004 Water Supply.

004.01 Public Drinking Water.

These are surface waters which serve as a public drinking water supply. These waters must be treated (e.g., coagulation, sedimentation, filtration, chlorination) before the water is suitable for human consumption. After treatment, these waters are suitable for drinking water, food processing, and similar uses.

004.01A General Criteria.

Wastes or toxic substances introduced directly or indirectly by human activity in concentrations that would degrade the use (i.e., would produce undesirable physiological effects in humans) shall not be allowed.

004.01B Numerical Criteria.

Numerical criteria for the parameters listed below shall not be exceeded. Any substance introduced directly or indirectly by human activity shall not be allowed to enter surface water if one or more of the following numerical standards would be exceeded. The numerical standards listed below are intended to protect beneficial use of public drinking water supply. If the natural background level of a parameter is greater than the numerical standard, this shall not in and of itself prohibit the use of the surface water. If the natural background level of a parameter is greater than the numerical standard listed below, the background level shall be used in place of the numerical criteria.

POLLUTANT	NUMERICAL LIMIT
Inorganics:	
Antimony	0.006 mg/l
Arsenic	0.05 mg/l
Asbestos	7 million fibers/liter with fiber length >10 microns
Barium	2.0 mg/l
Beryllium	0.004 mg/l
Cadmium	0.005 mg/l
Chromium	0.1 mg/l
Cyanide (as free cyanide)	0.2 mg/l
Fluoride	4.0 mg/l
Mercury	0.002 mg/l
Nitrate-nitrogen	10 mg/l
Nitrite-nitrogen	1 mg/l
Selenium	0.05 mg/l
Thallium	0.002 mg/l
Organics:	
Alachlor	0.002 mg/l
Atrazine	0.003 mg/l
Benzene	0.005 mg/l
Benzo(a)pyrene	0.0002 mg/l
Carbofuran	0.04 mg/l
Carbon tetrachloride	0.005 mg/l
Chlorobenzene	0.1 mg/l
Chlordane	0.002 mg/l
cis-1,2-Dichloroethylene	0.07 mg/l
Dalapon	0.2 mg/l
Dibromochloropropane (DBCP)	0.0002 mg/l
Dichloromethane	0.005 mg/l
Di(2-ethylhexyl)adipate	0.4 mg/l
Di(2-ethylhexyl)phthalate	0.006 mg/l
Dinoseb	0.007 mg/l
Dioxin (2,3,7,8-TCDD)	0.00000003mg/l

POLLUTANT	NUMERICAL LIMIT
Diquat	0.02 mg/l
Endothall	0.1mg/l
Endrin	0.002 mg/l
Ethylbenzene	0.7 mg/l
Ethylene dibromide	0.00005 mg/l
Glyphosate	0.7 mg/l
Heptachlor	0.0004 mg/l
Heptachlor epoxide	0.0002 mg/l
Hexachlorobenzene	0.001 mg/l
Hexachlorocyclopentadiene	0.05 mg/l
Lindane	0.0002 mg/l
Methoxychlor	0.04 mg/l
o-Dichlorobenzene	0.6 mg/l
Oxamyl (Vydate)	0.2 mg/l
2,4,5-TP Silvex	0.05 mg/l
2,4-D	0.07 mg/l
PCB's	0.0005 mg/l
Pentachlorophenol	0.001 mg/l
Picloram	0.5 mg/l
Simazine	0.004 mg/l
Styrene	0.1 mg/l
trans-1,2-Dichloroethylene	0.1 mg/l
1,2,4-Trichlorobenzene	0.07 mg/l
Trichloroethylene	0.005 mg/l
Tetrachloroethylene	0.005 mg/l
Toluene	1.0 mg/l
Total trihalomethanes	0.1 mg/l
Toxaphene	0.003 mg/l
Vinyl chloride	0.002 mg/l
Xylenes	10.0 mg/l
1,2-Dichloropropane	0.005 mg/l
1,2-Dichloroethane	0.005 mg/l
1,1-Dichloroethylene	0.007 mg/l
1,1,1-Trichloroethane	0.2 mg/l
1,1,2-Trichloroethane	0.005 mg/l
p-Dichlorobenzene	0.075 mg/l

POLLUTANT	NUMERICAL LIMIT
Radionuclides:	
Beta particles and photon emitters	4 millirems per year
Combined radium-226 and radium-228	5 pCi/l
Gross alpha particle activity (including radium-226 but excluding radon and uranium)	15 pCi/l
Other Parameters Affecting Use:	
Aluminum	0.2 mg/l
Chloride	250 mg/l
Copper	1 mg/l
Foaming Agents (methylene-blue active substances)	0.5 mg/l
Iron	0.3 mg/l
Manganese	0.05 mg/l
Silver	0.10 mg/l
Sulfate	250 mg/l
Total Dissolved Solids	500 mg/l
Zinc	5 mg/l

004.02 Agricultural.

004.02A General Criteria.

Wastes or toxic substances introduced directly or indirectly by human activity in concentrations that would degrade the use (i.e., would produce undesirable physiological effects in crops or livestock) shall not be allowed.

004.02B Class A - Agricultural.

These are waters used for general agricultural purposes (e.g, irrigation and livestock watering) without treatment.

004.02B1 Conductivity.

Not to exceed 2,000 umhos/cm between April 1 and September 30.

004.02B2 Nitrate and Nitrite as Nitrogen.

Not to exceed 100 mg/l.

004.02B3 Selenium.

Not to exceed 0.02 mg/l.

004.02C Class B - Agricultural.

These are waters where the natural background water quality limits its use for agricultural purposes. No water quality criteria are assigned to protect this use.

004.03 Industrial.

These are waters used for commercial or industrial purposes such as cooling water, hydroelectric power generation, or nonfood processing water; with or without treatment. Water quality criteria to protect this use will vary with the type of industry involved. Where water quality criteria are necessary to protect this use, site-specific criteria will be developed.

Title 117

Chapter 4

005 Aesthetics.

This use applies to all surface waters of the state. To be aesthetically acceptable, waters shall be free from human-induced pollution which causes: 1) noxious odors; 2) floating, suspended, colloidal, or settleable materials that produce objectionable films, colors, turbidity, or deposits; and 3) the occurrence of undesirable or nuisance aquatic life (e.g., algal blooms). Surface waters shall also be free of junk, refuse, and discarded dead animals.

Enabling Legislation: Neb. Rev. Stat. §§ 81-1505(1)(2)

Legal Citation: Title 117, Ch. 4, Nebraska Department of Environmental Quality

APPROVED
DON STENBERG
ATTORNEY GENERAL
JUN 30 2000
BY _____
Assistant Attorney General

APPROVED
AUG 17 2000
MIKE JOHANNS
GOVERNOR

FILED
AUG 17 2000
SECRETARY OF STATE
By _____

Effective Date: _____

FILED
AUG 17 2000
By SECRETARY OF STATE

Title 117 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 5 - STREAM CLASSIFICATION BY BASIN

001 Maps showing the location of each stream segment are included with the basin tables.

002 Beneficial uses are assigned to each designated segment in the basin tables. The water quality criteria in Chapter 4 associated with the assigned uses are applicable to each segment. These criteria are also applicable to segment tributaries, as necessary, to protect a segment's assigned uses if the tributary is not a designated segment. Assigned uses also apply to lakes and impounded waters located on designated segments unless those lakes or impounded waters are identified in Chapter 6. Lakes and impounded waters referenced in this Chapter are protected for beneficial uses as listed in Chapter 6.

003 The following species codes are used in the basin tables to identify the key species which typically occur in a stream segment.

Species Code	Common Name
1	Lake sturgeon
2	Pallid sturgeon
3	Northern redbelly dace
4	Pearl dace
5	Finescale dace
6	Blacknose shiner
7	Lake chub
8	Brook Stickleback
9	Iowa darter
10	Johnny darter
11	Orangethroat darter
12	Blacknose dace
13	Grass pickerel
14	Pumpkinseed
15	Golden shiner
16	Common shiner
17	Topeka shiner

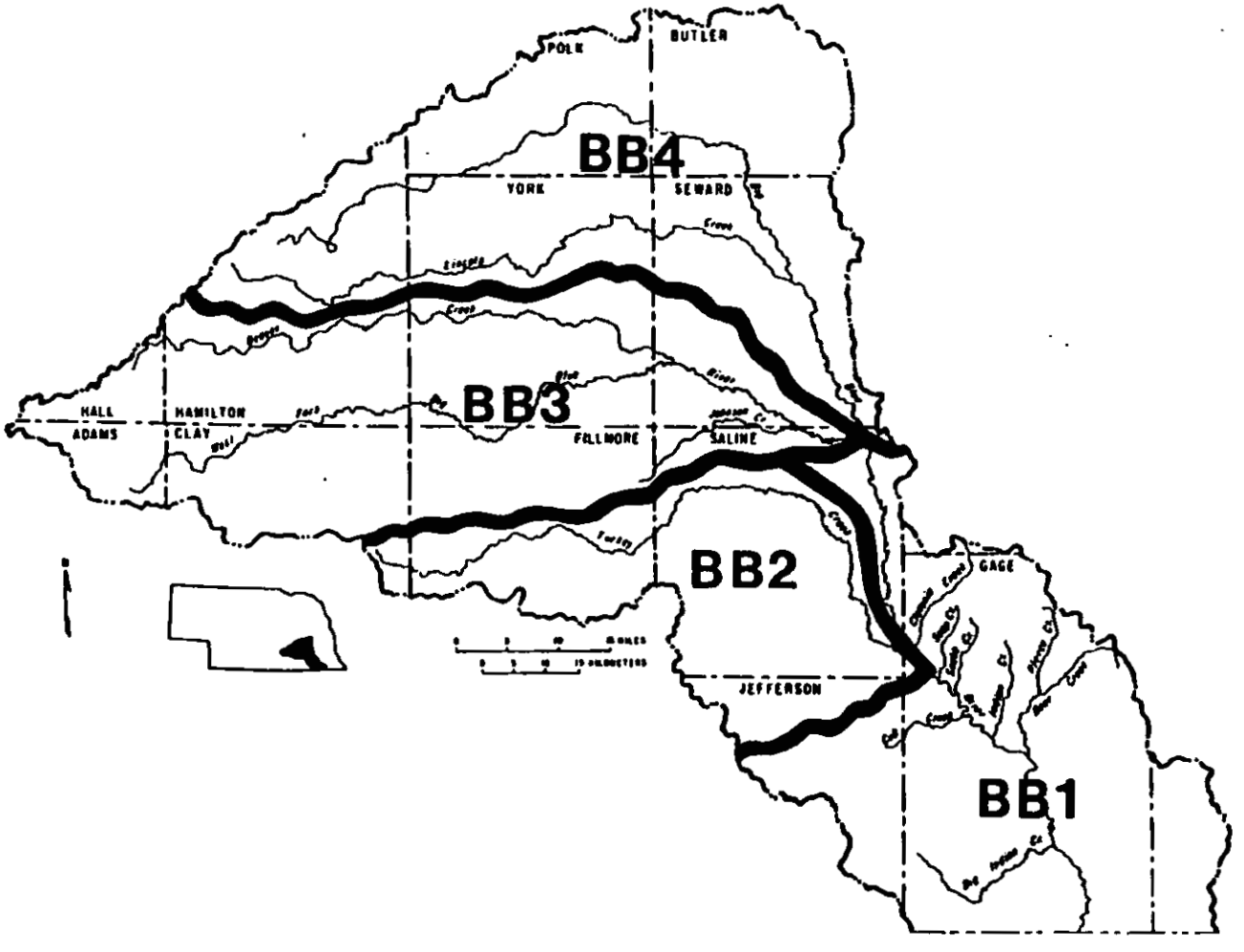
APPROVED
DON STENBERG
ATTORNEY GENERAL
JUN 30 2000
BY
Assistant Attorney General

Effective Date: 8-17-00

APPROVED
AUG 17 2000
MIKE JOHANNS
GOVERNOR

Species Code	Common Name
a	Shovelnose sturgeon
b	Paddlefish
c	Brook trout
d	Brown trout
e	Rainbow trout
f	Northern pike
g	Muskellunge
h	Blue catfish
i	Channel catfish
j	Flathead catfish
k	Striped bass
l	White bass
m	Rock bass
n	Largemouth bass
o	Smallmouth bass
p	Spotted bass
q	Redear sunfish
r	Bluegill
s	Black crappie
t	White crappie
u	Yellow perch
v	Sauger
w	Walleye

004 The following basin tables show designated stream segments, assigned beneficial uses, and other stream classifications.



BIG BLUE RIVER BASIN (and Subbasins)

Subbasin BB1

Effective Date: _____

RIVER BASIN: Big Blue

Subbasin: BB1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Big Blue River - Turkey Creek to Nebraska-Kansas border (Sec 35-1N-7E)	10000		●		A*		A		●	i,j	
Mission Creek - Nebraska-Kansas border (Sec 33-1N-8E) to Nebraska-Kansas border (Sec 35-1N-7E)	10100				A		A		●	i,j	
Mission Creek - Headwaters to Nebraska-Kansas border (Sec 31-1N-9E)	10200				B		A		●		
Spring Creek - Headwaters to Nebraska-Kansas border (Sec 35-1N-7E)	10300				A		A		●	11	Sensitive Species
Plum Creek - Arkeketa Creek to Big Blue River	10400				A		A		●	i	
Arkeketa Creek	10410				B		A		●		
Plum Creek - Headwaters to Arkeketa Creek	10500				B		A		●		
Tipps Creek	10510				B		A		●		
Wildcat Creek - Wolf Creek to Big Blue River	10600				A		A		●	i	
Wolf Creek	10610				B		A		●		
Wildcat Creek - Headwaters to Wolf Creek	10700				B		A		●		
Big Indian Creek - Sicily Creek to Big Blue River	10800				A		A		●	i	
Squaw Creek	10810				B		A		●		
Sicily Creek	10820				B		A		●	i	
Big Indian Creek - Headwaters to Sicily Creek	10900				B		A		●	i	
Bills Creek	11000				B		A		●		
Mud Creek - Bloody Run to Big Blue River	11100				B		A		●	i	
Bloody Run	11110				B		A		●		
Mud Creek - Headwaters to Bloody Run	11200				B		A		●		
Cedar Creek	11300				B		A		●	i	
Bear Creek - Pierce Creek to Big Blue River	11400				A		A		●	i	
Pierce Creek	11410				B		A		●		
Bear Creek - Headwaters to Pierce Creek	11500				B		A		●		
Indian Creek - Town Creek to Big Blue River	11600				B		A		●		
Town Creek	11610				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

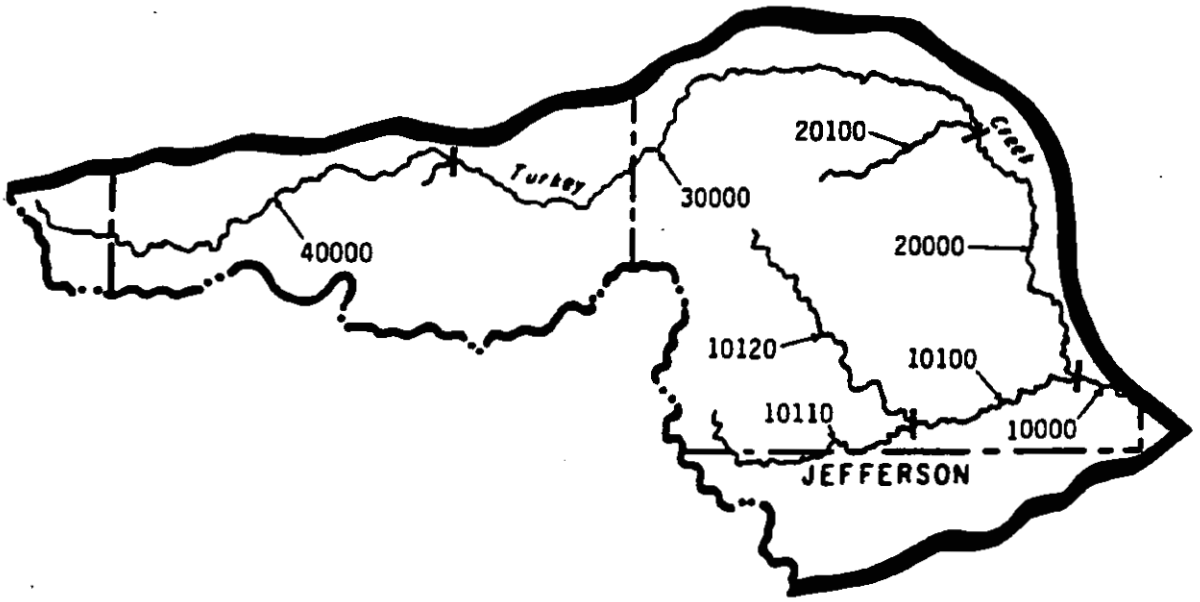
RIVER BASIN: Big Blue

Subbasin: BB1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION									COMMENTS
				AQUATIC LIFE		WATER SUPPLY					
		STATE RESOURCE WATER	RECREATION	COLDWATER	WARMWATER	PUBLIC DRINKING WATER	AGRICULTURAL	INDUSTRIAL	AESTHETICS	KEY SPECIES	
Indian Creek - Headwaters to Town Creek	11700				B		A		●		
Bottle Creek	11800				B		A		●		
Cub Creek	11900				A		A		●	i	
Soap Creek	12000				B		A		●		
Turkey Creek (see subbasin BB2)	—										
Big Blue River - West Fork Big Blue River to Turkey Creek	20000		●		A*		A		●	ij	
Clatonia Creek	20100				B		A		●		
West Fork Big Blue River (see subbasin BB3)	—										

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

Effective Date: _____



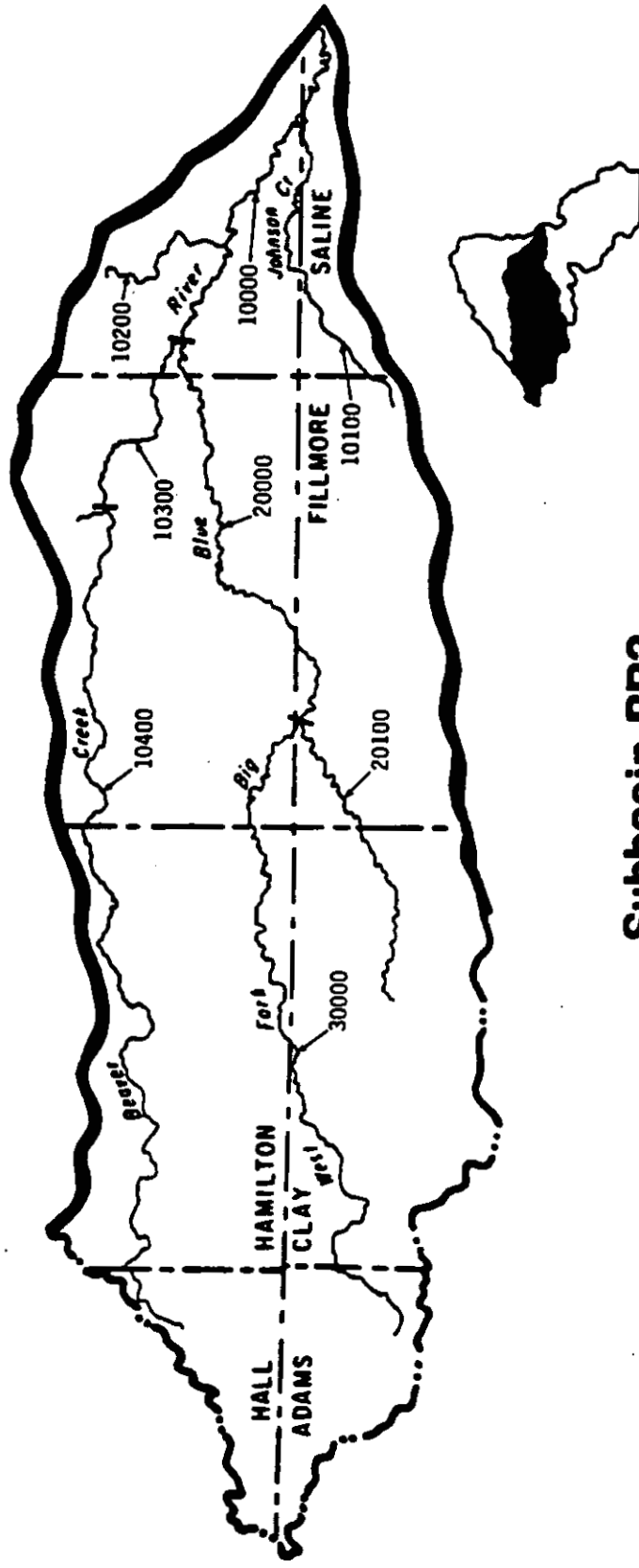
Subbasin BB2

RIVER BASIN: Big Blue

Subbasin: BB2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Turkey Creek - Swan Creek to Big Blue River	10000				A		A		●	i,j	
Swan Creek - Confluence of North and South Fork Swan Creeks to Turkey Creek	10100				A		A		●	i	
South Fork Swan Creek	10110				B		A		●		
North Fork Swan Creek	10120				B		A		●		
Turkey Creek - Spring Creek to Swan Creek	20000				A		A		●	i	
Spring Creek	20100				B		A		●		
Turkey Creek - Unnamed Creek (Sec 27-7N-2W) to Spring Creek	30000				B		A		●		
Turkey Creek - Headwaters to Unnamed Creek (Sec 27-7N-2W)	40000				B		A		●		

Effective Date: _____



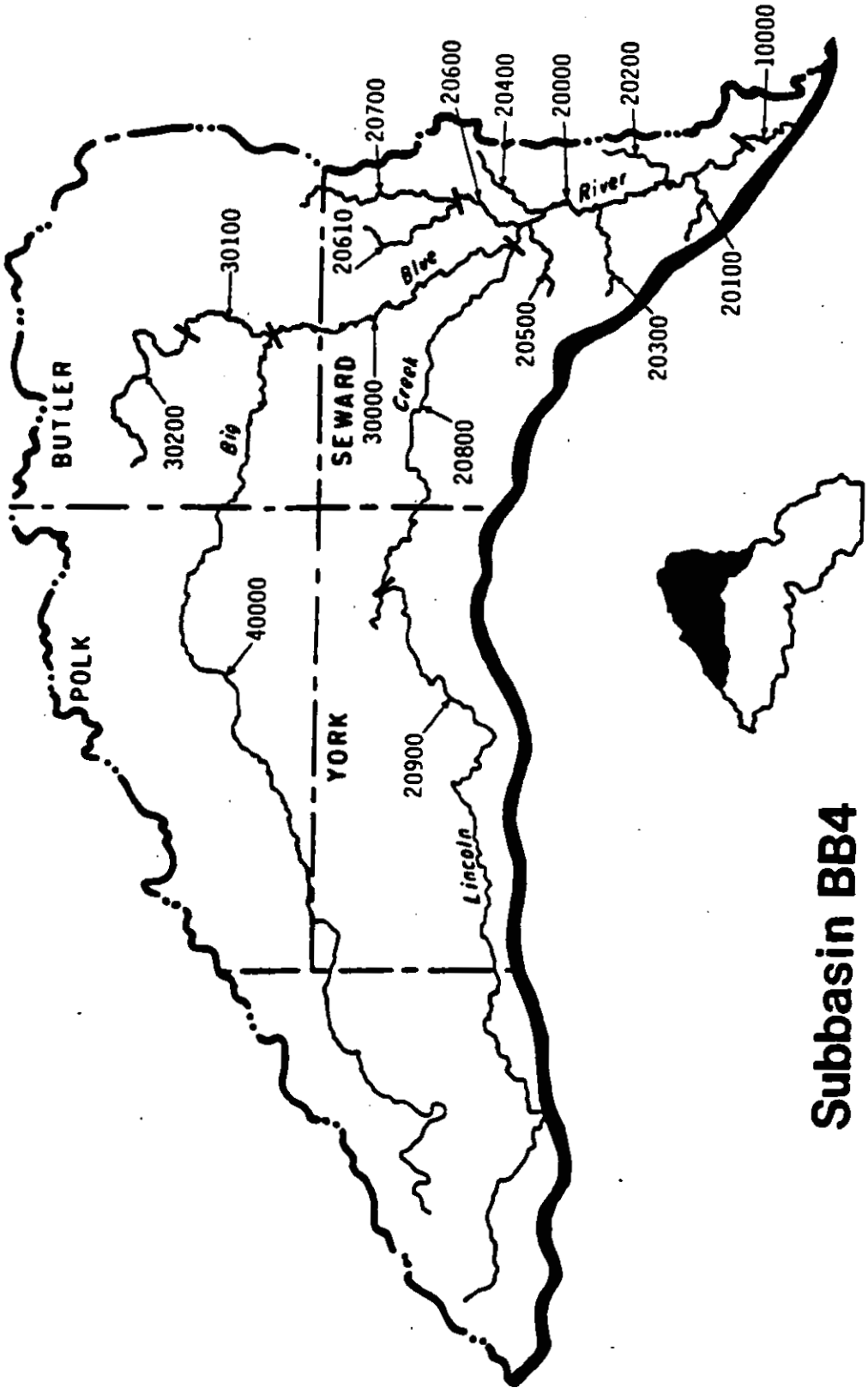
Subbasin BB3

RIVER BASIN: Big Blue

Subbasin: BB3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
West Fork Big Blue River - Beaver Creek to Big Blue River	10000		●		A		A		●	i,j	
Johnson Creek	10100				B		A		●		
Walnut Creek	10200				B		A		●		
Beaver Creek - Unnamed Creek (Sec 12-10N-2W) to West Fork Big Blue River	10300				B		A		●		
Beaver Creek - Headwaters to Unnamed Creek (Sec. 12-10N-2W)	10400				B		A		●		
West Fork Big Blue River - School Creek to Beaver Creek	20000				A		A		●	i	
School Creek	20100				B		A		●		
West Fork Big Blue River - Headwaters to School Creek	30000				B		A		●		

Effective Date: _____



Subbasin BB4

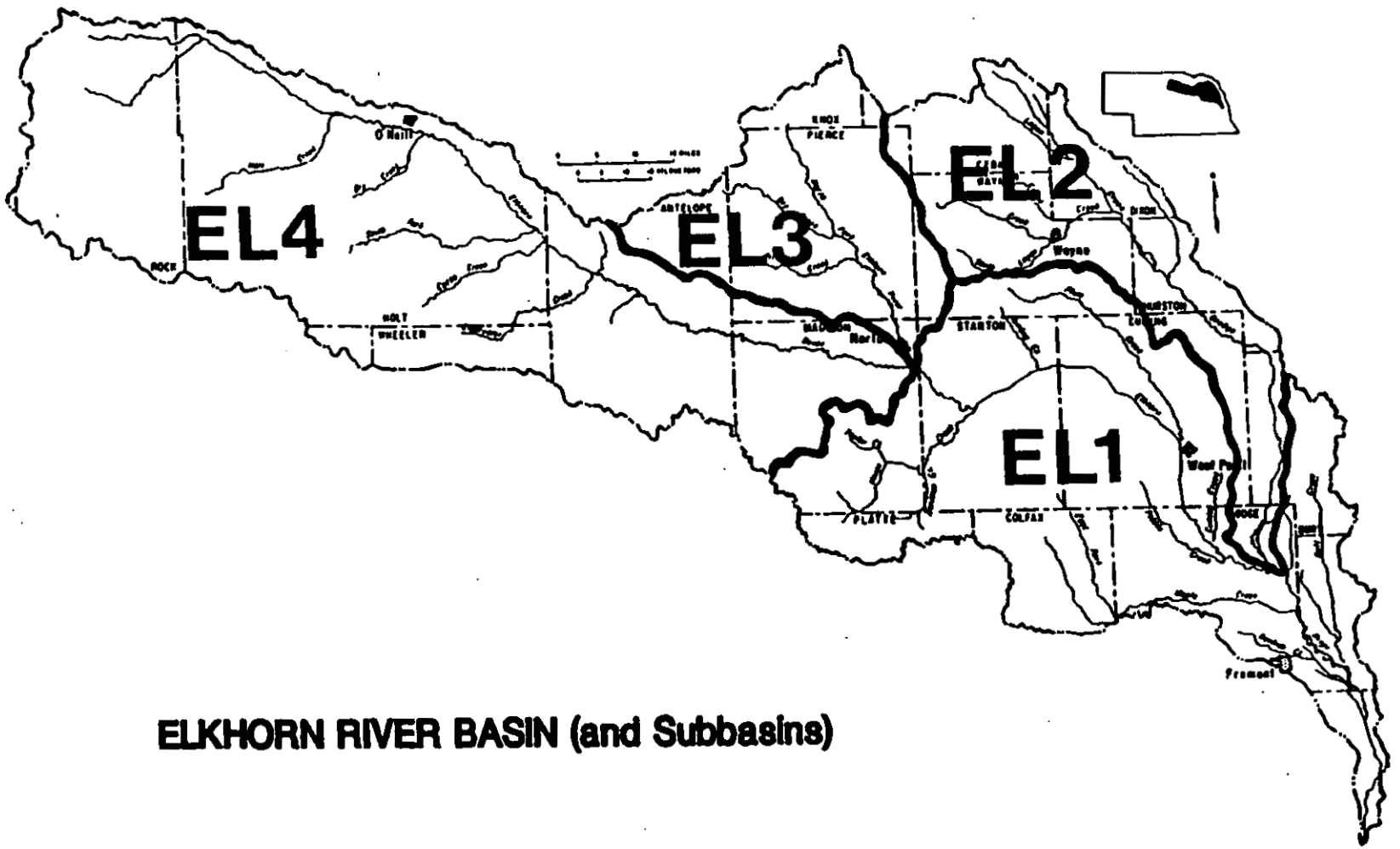
RIVER BASIN: Big Blue

Subbasin: BB4

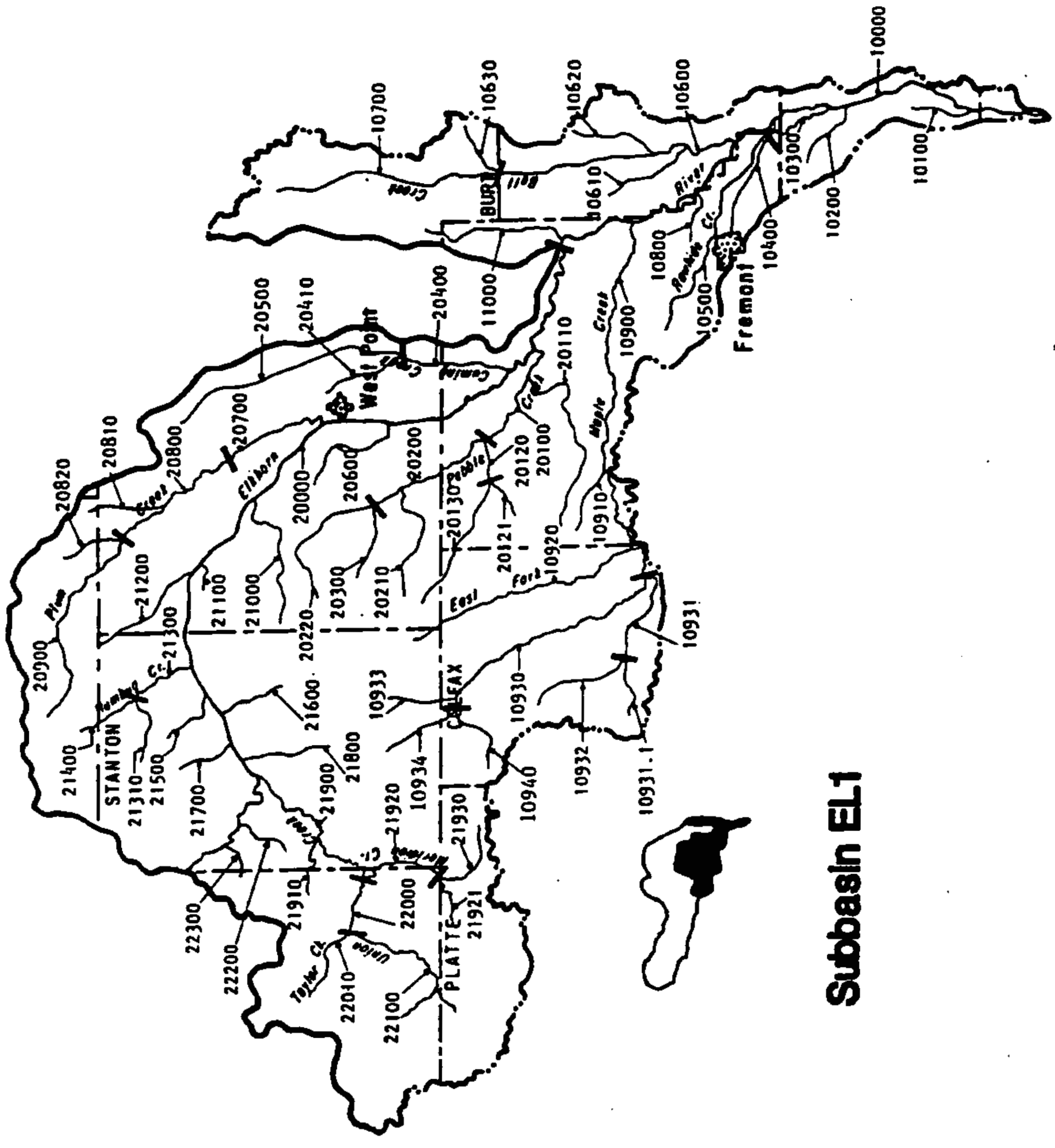
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION									COMMENTS
				AQUATIC LIFE		WATER SUPPLY					
		STATE RESOURCE WATER	RECREATION	COLDWATER	WARMWATER	PUBLIC DRINKING WATER	AGRICULTURAL	INDUSTRIAL	AESTHETICS	KEY SPECIES	
Big Blue River - Blue Bluff Dam (Sec 19-9N-4E) to West Fork Big Blue River	10000				A*		A		●	i,j	
Big Blue River - Lincoln Creek to Blue Bluff Dam (Sec 19-9N-4E)	20000				A*		A		●	i	
Coon Creek	20100				B		A		●		
Wolf Creek	20200				B		A		●		
Crooked Creek	20300				B		A		●		
Clark Creek	20400				B		A		●		
Unnamed Creek (Sec 28-11N-3E)	20500				B		A		●		
Plum Creek - Big Weedy Creek to Big Blue River	20600				B		A		●		
Big Weedy Creek	20610				B		A		●		
Plum Creek - Headwaters to Big Weedy Creek	20700				B		A		●		
Lincoln Creek - Unnamed Creek (Sec 20-12N-1W) to Big Blue River	20800				B		A		●		
Lincoln Creek - Headwaters to Unnamed Creek (Sec 20-12N-1W)	20900				B		A		●		
Big Blue River - North Fork Big Blue River to Lincoln Creek	30000				B		A		●	i	
North Fork Big Blue River - Sec 27-14N-2E to Big Blue River	30100				B		A		●		
North Fork Big Blue River - Headwaters to Sec 27-14N-2E	30200				B		A		●		
Big Blue River - Headwaters to North Fork Big Blue River	40000				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

Effective Date: _____



ELKHORN RIVER BASIN (and Subbasins)



Subbasin EL1

 Effective Date: ____________

RIVER BASIN: Elkhorn

Subbasin: EL1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Elkhorn River - Logan Creek to Platte River	10000		●		A*		A		●	i,j	
Unnamed Creek (Sec 9-14N-10E)	10100				B		A		●		
Big Slough	10200				B		A		●		
Rawhide Creek (old channel, Sec 21-16N-10E) - Sec 35-17N-9E to Elkhorn River	10300				A		A		●	i	
Rawhide Creek (drainage ditch to old channel) - Headwaters to Sec 35-17N-9E	10400				B		A		●		
Rawhide Creek (new channel, Sec 4-16N-10E)	10500				B		A		●		
Bell Creek - Unnamed Creek (Sec 26-20N-9E) to Elkhorn River	10600				A		A		●	i	
Brown Creek	10610				B		A		●		
Little Bell Creek	10620				B		A		●		
Unnamed Creek (Sec 26-20N-9E)	10630				B		A		●		
Bell Creek - Headwaters to Unnamed Creek (Sec 26-20N-9E)	10700				B		A		●		
Unnamed Creek (Sec 4-17N-9E)	10800				B		A		●		
Maple Creek - Confluence of East and West Fork Maple Creeks to Elkhorn River	10900				A		A		●	i	
Crystal Creek	10910				B		A		●		
East Fork Maple Creek	10920				B		A		●		
West Fork Maple Creek - Unnamed Creek (Sec 2-20N-2E) to Maple Creek	10930				B		A		●		
Dry Creek - South Fork Dry Creek to Middle Fork Maple Creek	10931				B		A		●		
South Fork Dry Creek	10931.1				B		A		●		
Dry Creek - Headwaters to South Fork Dry Creek	10932				B		A		●		
Unnamed Creek (Sec 6-20N-3E)	10933				B		A		●		
Unnamed Creek (Sec 2-20N-2E)	10934				B		A		●		
West Fork Maple Creek - Headwaters to Unnamed Creek (Sec 2-20N-2E)	10940				B		A		●		
Clark Creek	11000				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

RIVER BASIN: Elkhorn

Subbasin: EL1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Logan Creek (see subbasin EL2)	—										
Elkhorn River - North Fork Elkhorn River to Logan Creek	20000		●		A*		A		●	ij	
Pebble Creek - Unnamed Creek (Sec 17-20N-6E) to Elkhorn River	20100				A		A		●	i	
Silver Creek	20110				B		A		●		
Unnamed Creek (Sec 17-20N-6E) - Unnamed Creek (Sec 24-20N-5E) to Pebble Creek	20120				B		A		●		
Unnamed Creek (Sec 24-20N-5E)	20121				B		A		●		
Unnamed Creek (Sec 17-20N-6E) - Headwaters to Unnamed Creek (Sec 24-20N-5E)	20130				B		A		●		
Pebble Creek - North Branch Pebble Creek to Unnamed Creek (Sec 17-20N-6E)	20200				B		A		●		
South Branch Pebble Creek	20210				B		A		●		
North Branch Pebble Creek	20220				B		A		●		
Pebble Creek - Headwaters to North Branch Pebble Creek	20300				B		A		●		
Cuming Creek - Willow Creek to Elkhorn River	20400				B		A		●		
Willow Creek	20410				B		A		●		
Cuming Creek - Headwaters to Willow Creek	20500				B		A		●		
Fisher Creek	20600				B		A		●		
Plum Creek - Sec 13-23N-5E to Elkhorn River	20700				B		A		●		
Plum Creek - Kane Creek to Sec 13-23N-5E	20800				B		A		●		
Dry Creek	20810				B		A		●		
Kane Creek	20820				B		A		●		
Plum Creek - Headwaters to Kane Creek	20900				B		A		●		
Rock Creek	21000				A		A		●	i	
Leisy Creek	21100				B		A		●		
Sand Creek	21200				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

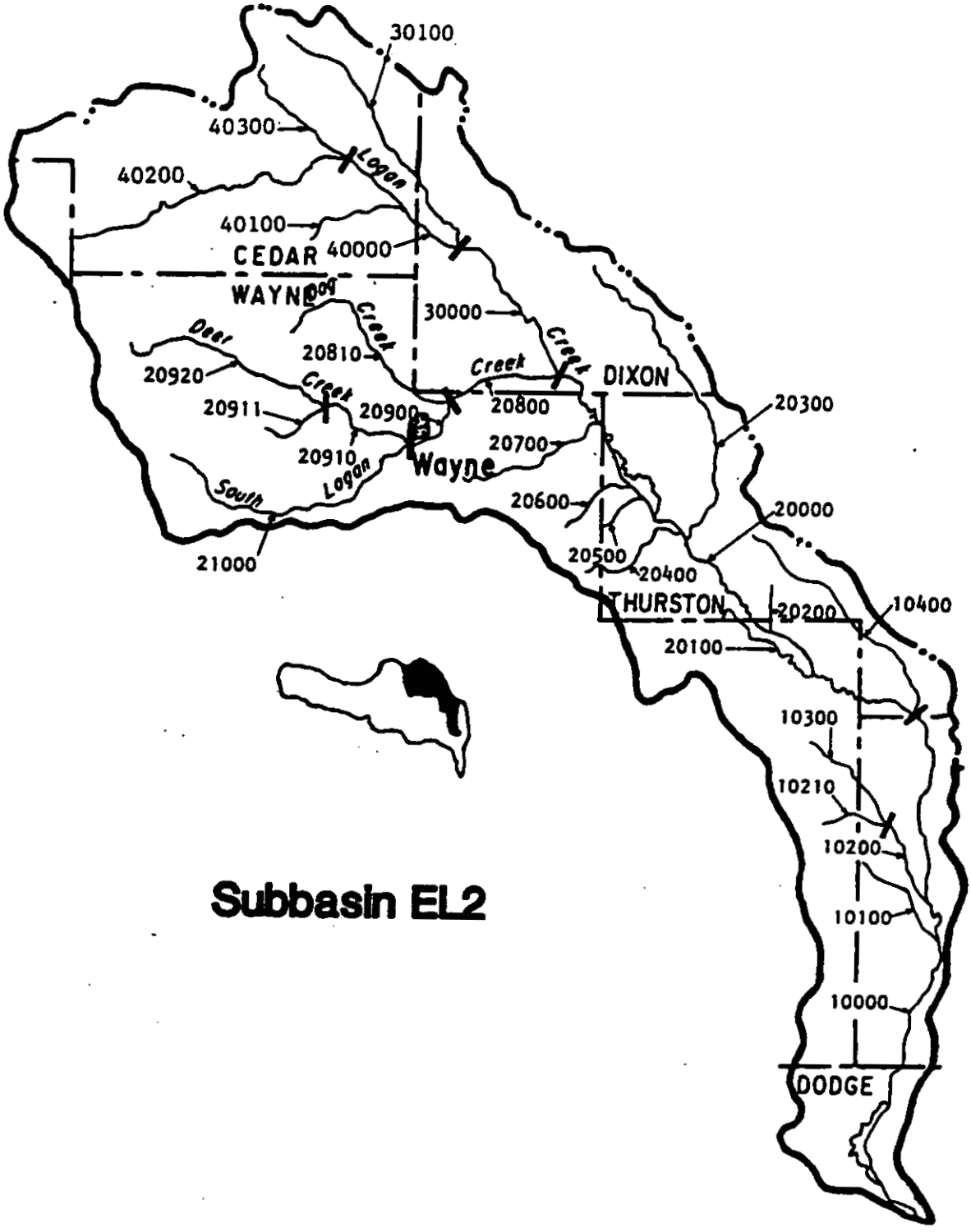
Effective Date: _____

RIVER BASIN: Elkhorn

Subbasin: EL1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Humbug Creek - South Humbug Creek to Elkhorn River	21300				B		A		●		
South Humbug Creek	21310				B		A		●		
Humbug Creek - Headwaters to South Humbug Creek	21400				B		A		●		
Payne Creek	21500				B		A		●		
Cedar Creek	21600				B		A		●		
Indian Creek	21700				B		A		●		
Butterfly Creek	21800				B		A		●		
Union Creek - Meridian Creek to Elkhorn River	21900				A*		A		●	i	
Sand Creek	21910				B		A		●		
Meridian Creek - Tracy Creek to Union Creek	21920				B		A		●		
Tracy Creek	21921				B		A		●		
Meridian Creek - Headwaters to Tracy Creek	21930				B		A		●		
Union Creek - Taylor Creek to Meridian Creek	22000				A*		A		●	i	
Taylor Creek	22010			B			A		●	17	Endangered Species
Union Creek - Headwaters to Taylor Creek	22100				B		A		●		
Unnamed Creek (Sec 26-23N-1E)	22200				B		A		●		
Unnamed Creek (Sec 21-23N-1E)	22300				B		A		●		
North Fork Elkhorn River (see subbasin EL3)	—										

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).



Subbasin EL2

Effective Date: _____

RIVER BASIN: Elkhorn

Subbasin: EL2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Logan Creek - Big Slough Creek to Elkhorn River	10000				A*		A		●	i	
Unnamed Creek (Sec 23-22N-8E)	10100				B		A		●		
Little Logan Creek - Unnamed Creek (Sec 21-23N-8E) to Logan Creek	10200				B		A		●		
Unnamed Creek (Sec 21-23N-8E)	10210				B		A		●		
Little Logan Creek - Headwaters to Unnamed Creek (Sec 21-23N-8E)	10300				B		A		●		
Big Slough Creek	10400				B		A		●		
Logan Creek - South Logan Creek to Big Slough Creek	20000				A*		A		●	i	
Rattlesnake Creek (Sec 15-24N-7E, including Stage Creek)	20100				B		A		●		
Unnamed Creek (Sec 5-24N-7E)	20200				B		A		●		
Middle Creek	20300				B		A		●		
Rattlesnake Creek (Sec 16-25N-6E)	20400				B		A		●		
Unnamed Creek (Sec 6-25N-6E)	20500				B		A		●		
Unnamed Creek (Sec 31-25N-6E)	20600				B		A		●		
Coon Creek	20700				B		A		●		
South Logan Creek - Dog Creek to Logan Creek	20800				A*		A		●	i	
Dog Creek	20810				B		A		●		
South Logan Creek - Deer Creek to Dog Creek	20900				B		A		●		
Deer Creek - Unnamed Creek (Sec 8-26N-3E) to South Logan Creek	20910				B		A		●		
Unnamed Creek (Sec 8-26N-3E)	20911				B		A		●		
Deer Creek - Headwaters to Unnamed Creek (Sec 8-26N-3E)	20920				B		A		●		
South Logan Creek - Headwaters to Deer Creek	21000				B		A		●		
Logan Creek - North Logan Creek to South Logan Creek	30000				A		A		●	i	
North Logan Creek	30100				B		A		●		

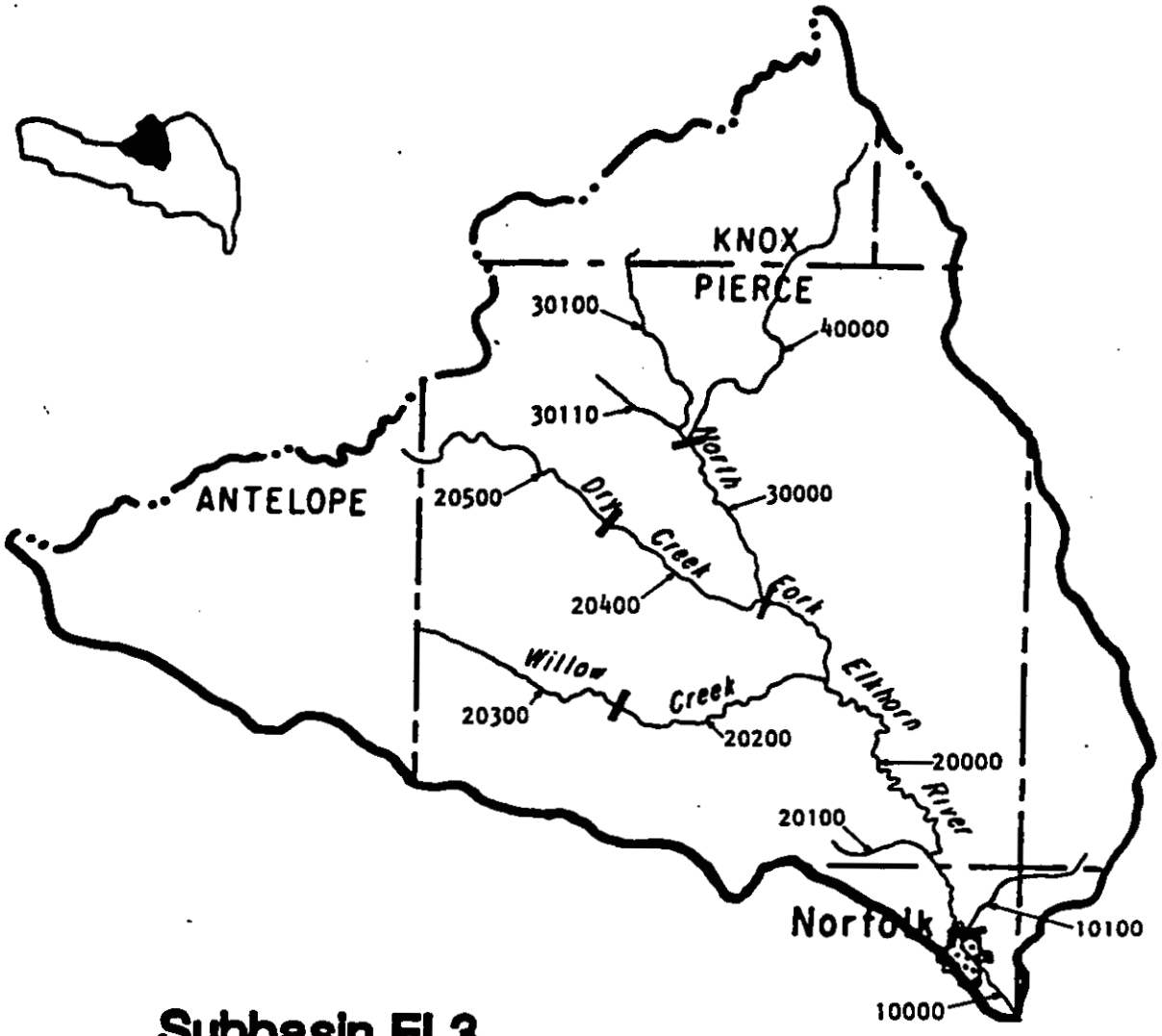
*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

RIVER BASIN: Elkhorn

Subbasin: EL2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Logan Creek - Confluence of Middle Logan Creek and Perrin Creek to North Logan Creek	40000				B		A		●		
Baker Creek	40100				B		A		●		
Middle Logan Creek - Headwaters to Perrin Creek	40200				B		A		●		
Perrin Creek	40300				B		A		●		

Effective Date: _____



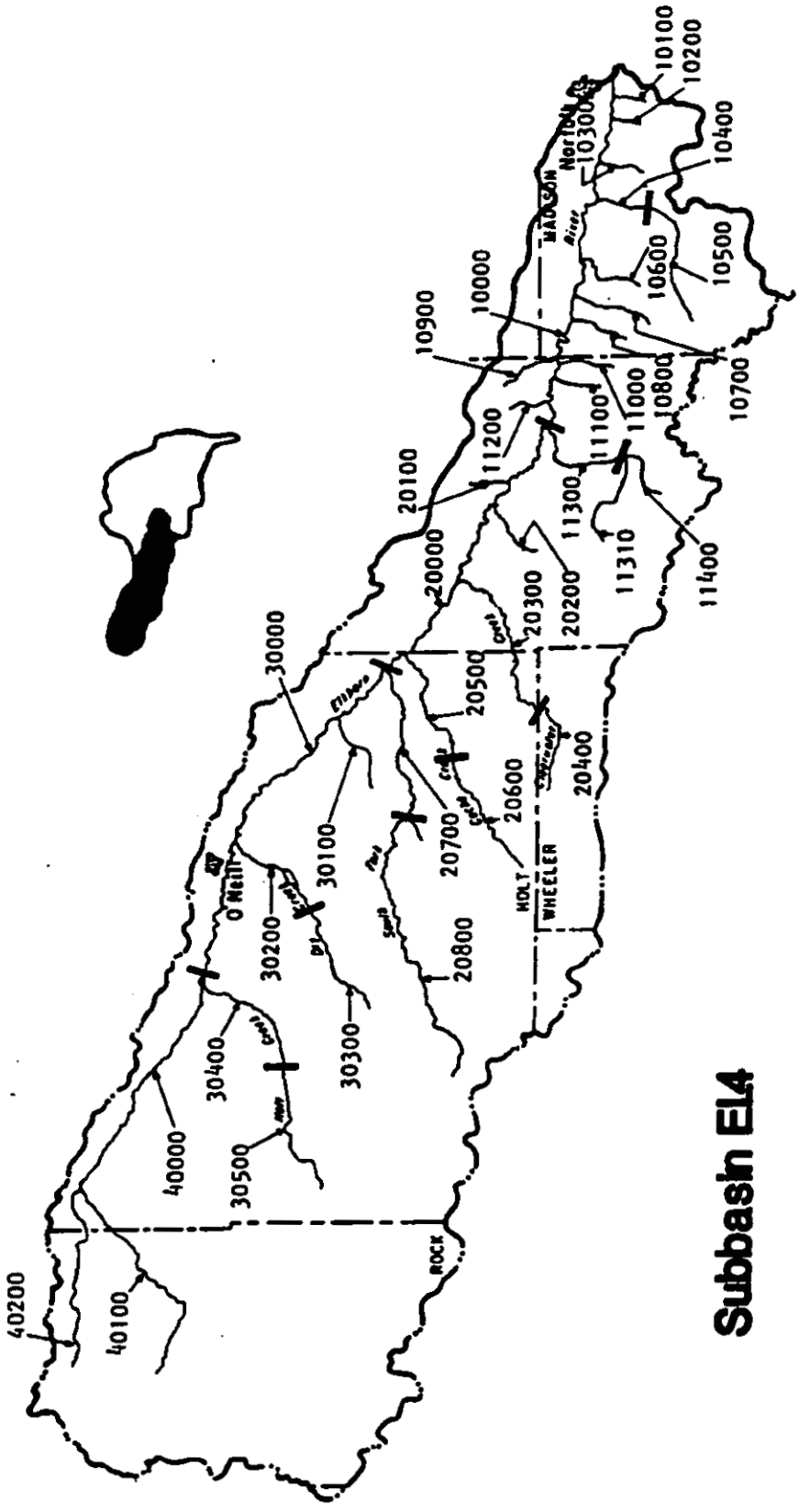
Subbasin EL3

RIVER BASIN: Elkhorn

Subbasin: EL3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
North Fork Elkhorn River - Spring Creek to Elkhorn River	10000				A		A		●	i	
Spring Creek	10100				B		A		●		
North Fork Elkhorn River - Dry Creek to Spring Creek	20000				A		A		●	f,i	
Hadar Creek	20100				B		A		●		
Willow Creek - Sec 32-26N-3W to North Fork Elkhorn River	20200				A		A		●	f,i	
Willow Creek - Headwaters to Sec 32-26N-3W	20300				A		A		●	f,i	
Dry Creek - Sec 33-27N-3W to North Fork Elkhorn River	20400				B		A		●	10	Sensitive Species
Dry Creek - Headwaters to Sec 28-27N-3W	20500				B		A		●	10	Sensitive Species
North Fork Elkhorn River - West Branch North Fork Elkhorn River to Dry Creek	30000				B		A		●		
West Branch North Fork Elkhorn River	30100				B		A		●		
Breslau Creek	30110				B		A		●		
North Fork Elkhorn River (including Middle Branch North Fork Elkhorn River) - Headwaters to West Branch North Fork Elkhorn River	40000				B		A		●		

Effective Date: _____



Subbasin EL4

RIVER BASIN: *Elkhorn*

Subbasin: EL4

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Elkhorn River - Cedar Creek to North Fork Elkhorn River	10000		●		A*		A		●	f,i, j,n	
Unnamed Creek (Sec 33-24N-1W)	10100				B		A		●		
Unnamed Creek (Sec 5-23N-1W)	10200				B		A		●		
Unnamed Creek (Sec 34-24N-2W)	10300				B		A		●		
Battle Creek - Sec 12-23N-3W to Elkhorn River	10400				A		A		●	13, f,i	Sensitive Species
Battle Creek - Headwaters to Sec 13-23N-3W	10500				A		A		●	13	Sensitive Species
Deer Creek	10600				A		A		●	10, 13, f,n	Sensitive Species
Buffalo Creek	10700				A		A		●	10	Sensitive Species
Dry Creek	10800				B		A		●		
Al Hopkins Creek	10900				B		A		●		
Giles Creek	11000				B		A		●		
Ives Creek	11100				B		A		●		
Trueblood Creek	11200				B		A		●		
Cedar Creek - Blacksnake Creek to Elkhorn River	11300				A		A		●	i	
Blacksnake Creek	11310				B		A		●		
Cedar Creek - Headwaters to Blacksnake Creek	11400				B		A		●		
Elkhorn River - South Fork Elkhorn River to Cedar Creek	20000		●		A		A		●	f,i, j,n	
Belmar Creek	20100				B		A		●		
Antelope Creek	20200				B		A		●		
Clearwater Creek - Sec 33-25N-9W to Elkhorn River	20300				A		A		●	f	
Clearwater Creek - Headwaters to Sec 5-24N-9W	20400				A		A		●	f	
Cache Creek - Sec 36-26N-10W to Elkhorn River	20500				A		A		●	10, 13, f,n	Sensitive Species

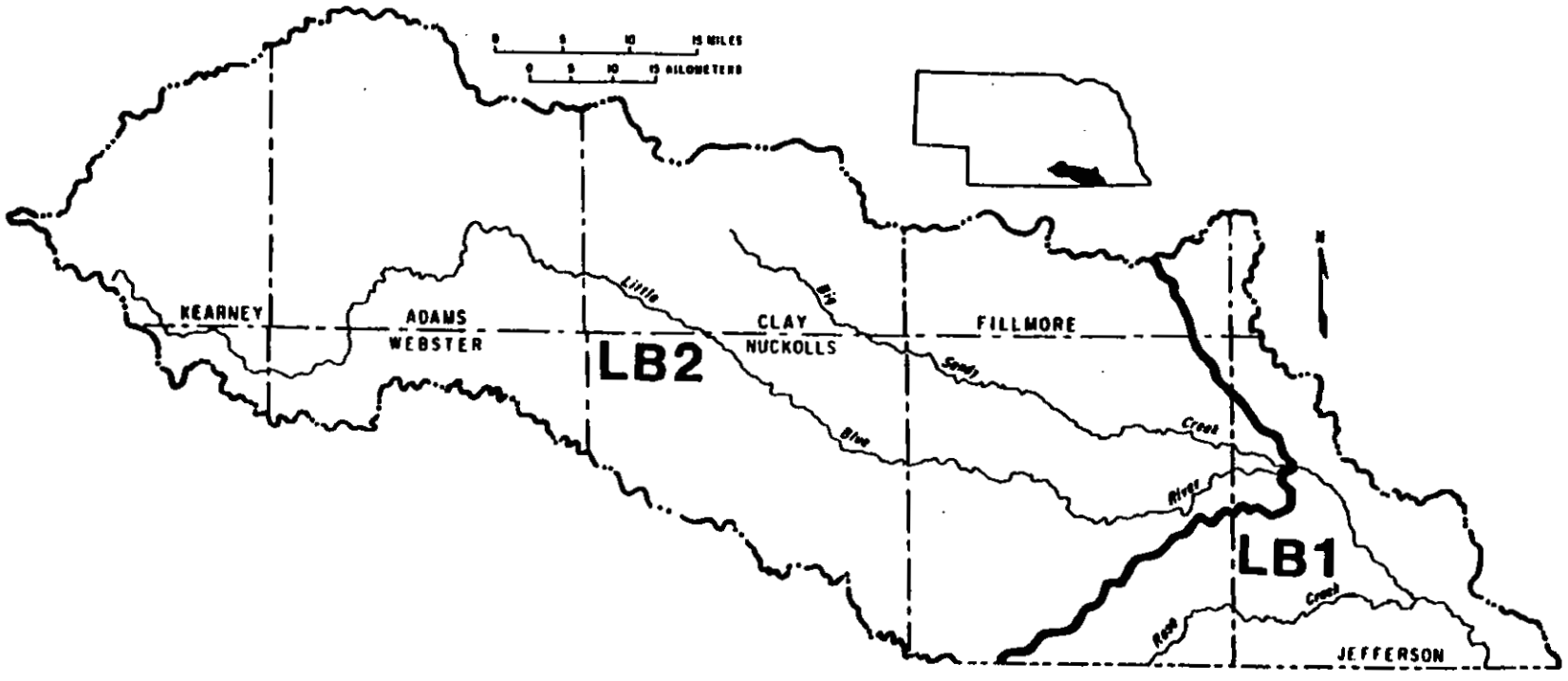
**Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).*

Effective Date: _____

RIVER BASIN: Elkhorn

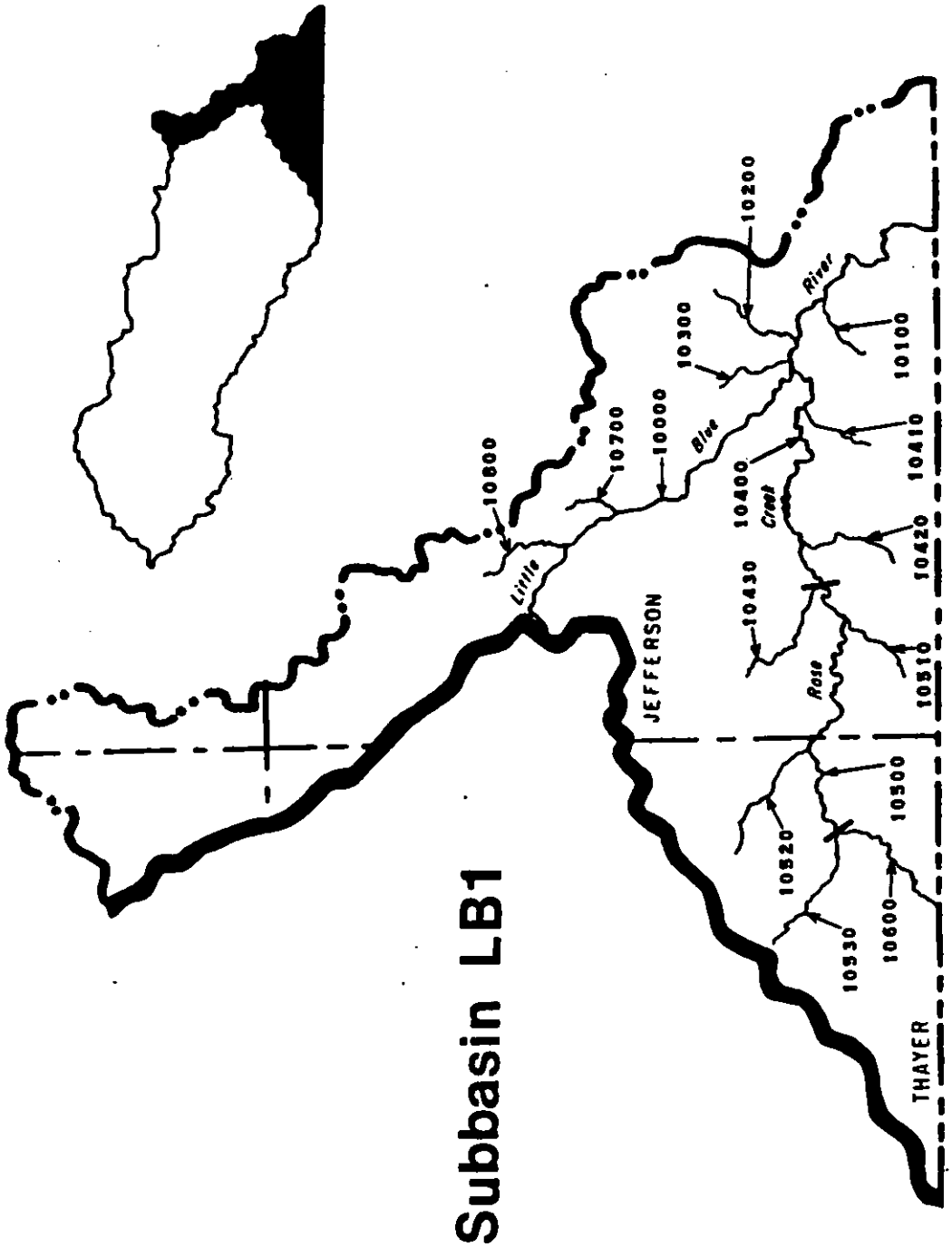
Subbasin: EL4

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Cache Creek - Headwaters to Sec 36-26N-10W	20600				A		A		●	10, 13, f,n	Sensitive Species
South Fork Elkhorn River - Dry Creek to Elkhorn River	20700				A		A		●	f	
South Fork Elkhorn River - Headwaters to Dry Creek	20800				A		A		●	f	
Elkhorn River - Holt Creek to South Fork Elkhorn River	30000		●		A		A		●	10, 13, 14,f, i,j,n	Sensitive Species
Willow Swamp Creek	30100				B		A		●		
Dry Creek - Sec 35-28N-12W to Elkhorn River	30200				A		A		●	f	
Dry Creek - Headwaters to Sec 34-28N-12W	30300				A		A		●	f	
Holt Creek - Sec 28-28N-14W to Elkhorn River	30400				A		A		●	13, 14, 15,f	Sensitive Species
Holt Creek - Headwaters to Sec 29-28N-14W	30500				A		A		●	13, 14, 15,f	Sensitive Species
Elkhorn River - Confluence of South Fork and North Fork Elkhorn River to Holt Creek	40000	B			A		A		●	14, 15, f,i, j,n	Sensitive Species
South Fork Elkhorn River	40100				A		A		●	13,f	Sensitive Species
North Fork Elkhorn River	40200				A		A		●	13,f	Sensitive Species



LITTLE BLUE RIVER BASIN (and Subbasins)

Effective Date: _____

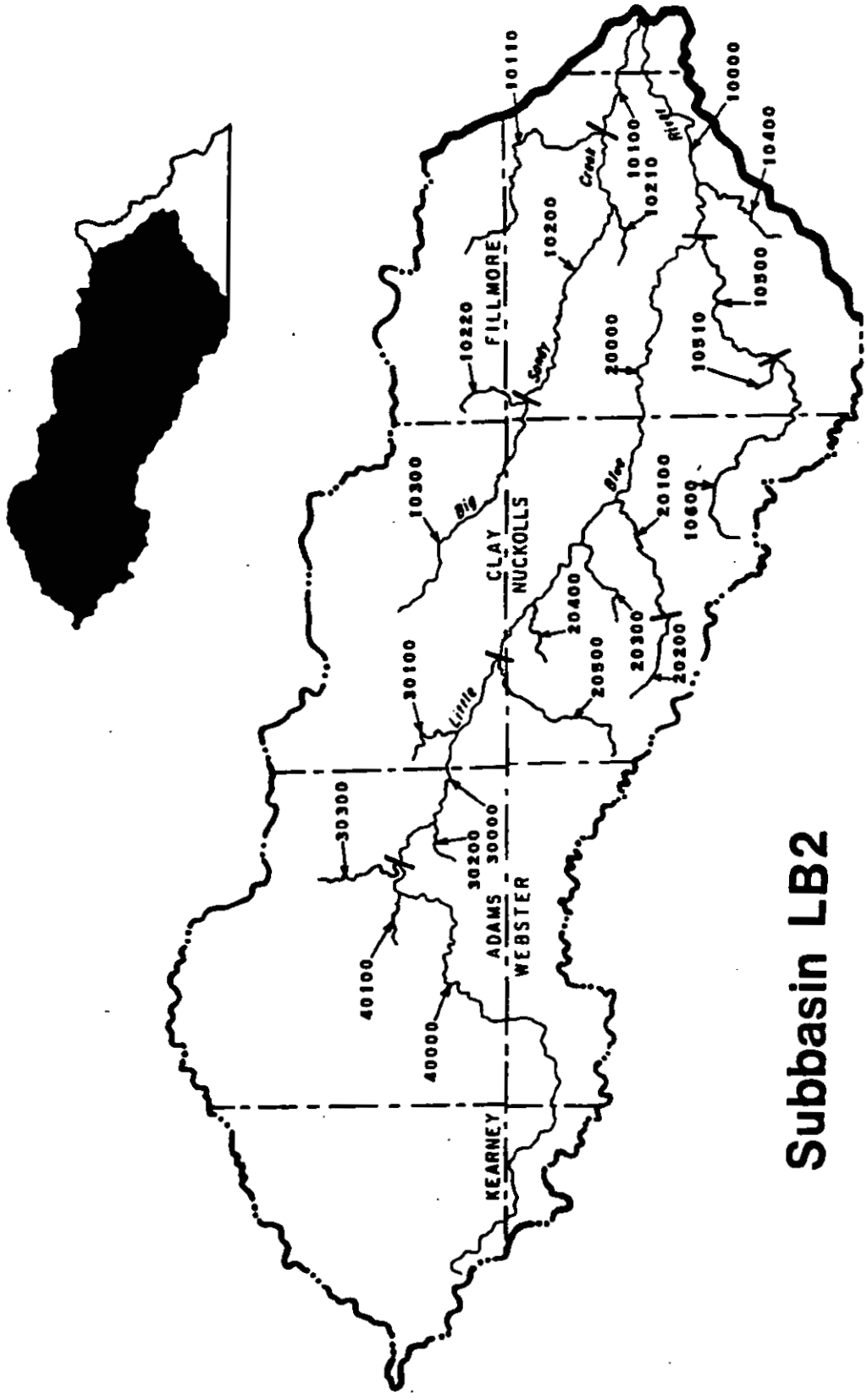

Subbasin LB1
JEFFERSON
THAYER
Little
Blue
Rose
Creek
River
10800
10700
10000
10300
10200
10400
10430
10100
10410
10420
10510
10500
10520
10530
10600

RIVER BASIN: Little Blue

Subbasin: LB1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Little Blue River - Big Sandy Creek to Nebraska-Kansas border (Sec 31-1N-4E)	10000		●		A		A		●	i,j	
Coon Creek	10100				A		A		●	10,i	Sensitive Species
Rock Creek	10200				A		A		●	10	Sensitive Species
Smith Creek	10300				B		A		●		
Rose Creek - Buckley Creek to Little Blue River	10400				A		A		●	i,j	
Dry Branch	10410				A		A		●	10	Sensitive Species
Silver Creek	10420				A		A		●	11	Sensitive Species
Buckley Creek	10430				B		A		●		
Rose Creek - Spring Branch to Buckley Creek	10500				A		A		●	i,j	
Wiley Creek	10510				A		A		●	11	Sensitive Species
Balls Branch	10520				B		A		●		
Spring Branch	10530				A		A		●	11	Sensitive Species
Rose Creek - Nebraska-Kansas border (Sec 35-1N-2W) to Spring Branch	10600				B		A		●		
Whiskey Run	10700				A		A		●	10,i	Sensitive Species
Little Sandy Creek	10800				B		A		●		
Big Sandy Creek (see subbasin LB2)	—										

Effective Date: _____



Subbasin LB2

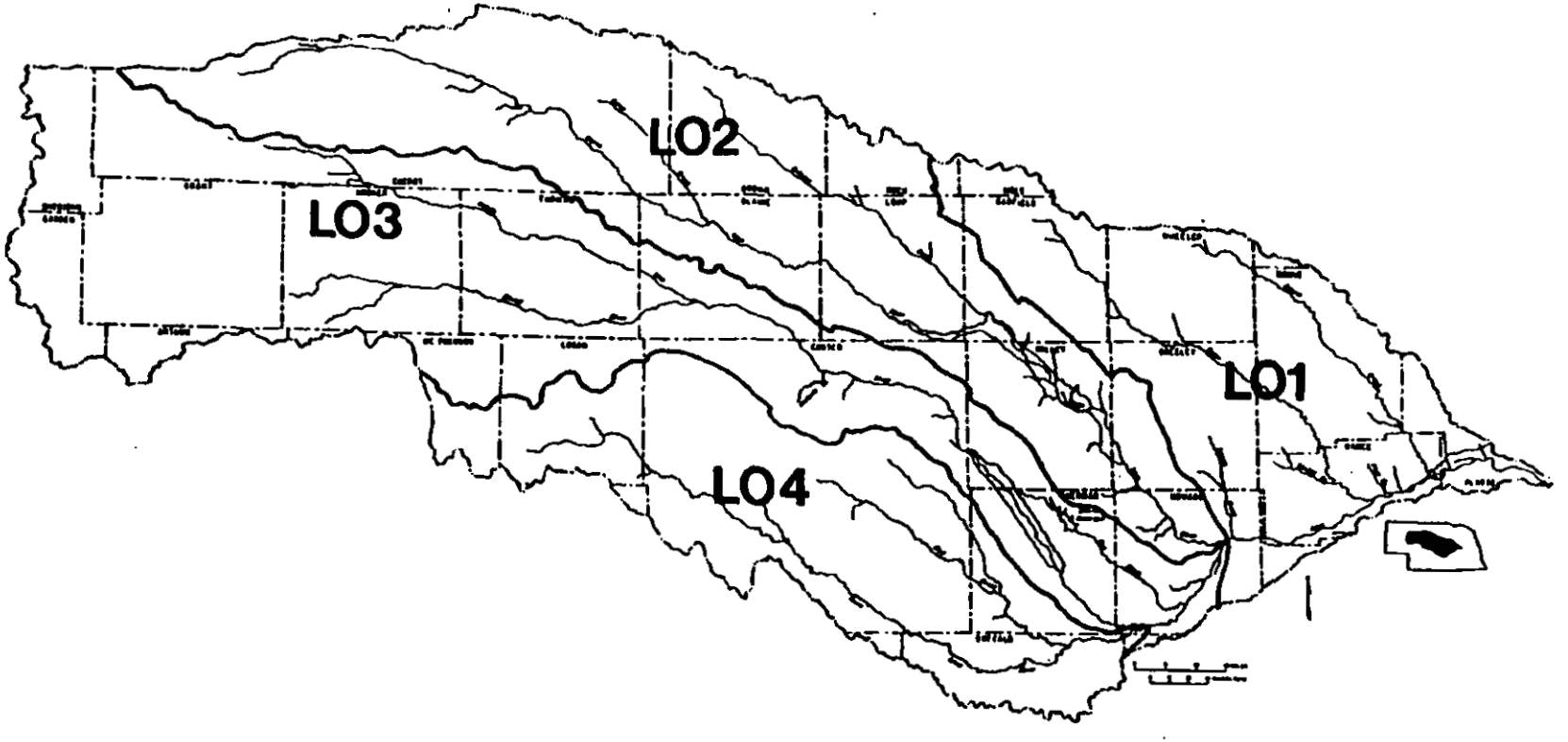
RIVER BASIN: Little Blue

Subbasin: LB2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Little Blue River - Spring Creek to Big Sandy Creek	10000		●		A*		A		●	i,j	
Big Sandy Creek - Dry Sandy Creek to Little Blue River	10100				A		A		●	i	
Dry Sandy Creek	10110				B		A		●		
Big Sandy Creek - Little Sandy Creek to Dry Sandy Creek	10200				B		A		●	i	
South Fork Big Sandy Creek	10210				B		A		●		
Little Sandy Creek	10220				B		A		●		
Big Sandy Creek - Headwaters to Little Sandy Creek	10300				B		A		●		
Dry Creek	10400				B		A		●		
Spring Creek - Unnamed Creek (Sec 2-1N-4W) to Little Blue River	10500				B		A		●		
Unnamed Creek (Sec 2-1N-4W)	10510				B		A		●		
Spring Creek - Headwaters to Unnamed Creek (Sec 2-1N-4W)	10600				B		A		●		
Little Blue River - Liberty Creek to Spring Creek	20000				A		A		●	i,j	
Elk Creek - Unnamed Creek (Sec 15-3N-6W) to Little Blue River	20100				B		A		●		
Elk Creek - Headwaters to Unnamed Creek (Sec 15-3N-6W)	20200				B		A		●		
Ox Bow Creek	20300				B		A		●		
Walnut Creek	20400				B		A		●		
Liberty Creek	20500				B		A		●		
Little Blue River - Thirty-two Mile Creek to Liberty Creek	30000				A		A		●	i	
Pawnee Creek	30100				B		A		●		
Ash Creek	30200				B		A		●		
Thirty-two Mile Creek	30300				B		A		●	i	
Little Blue River - Headwaters to Thirty-two Mile Creek	40000				B		A		●	i	
Scott Creek	40100				B		A		●		

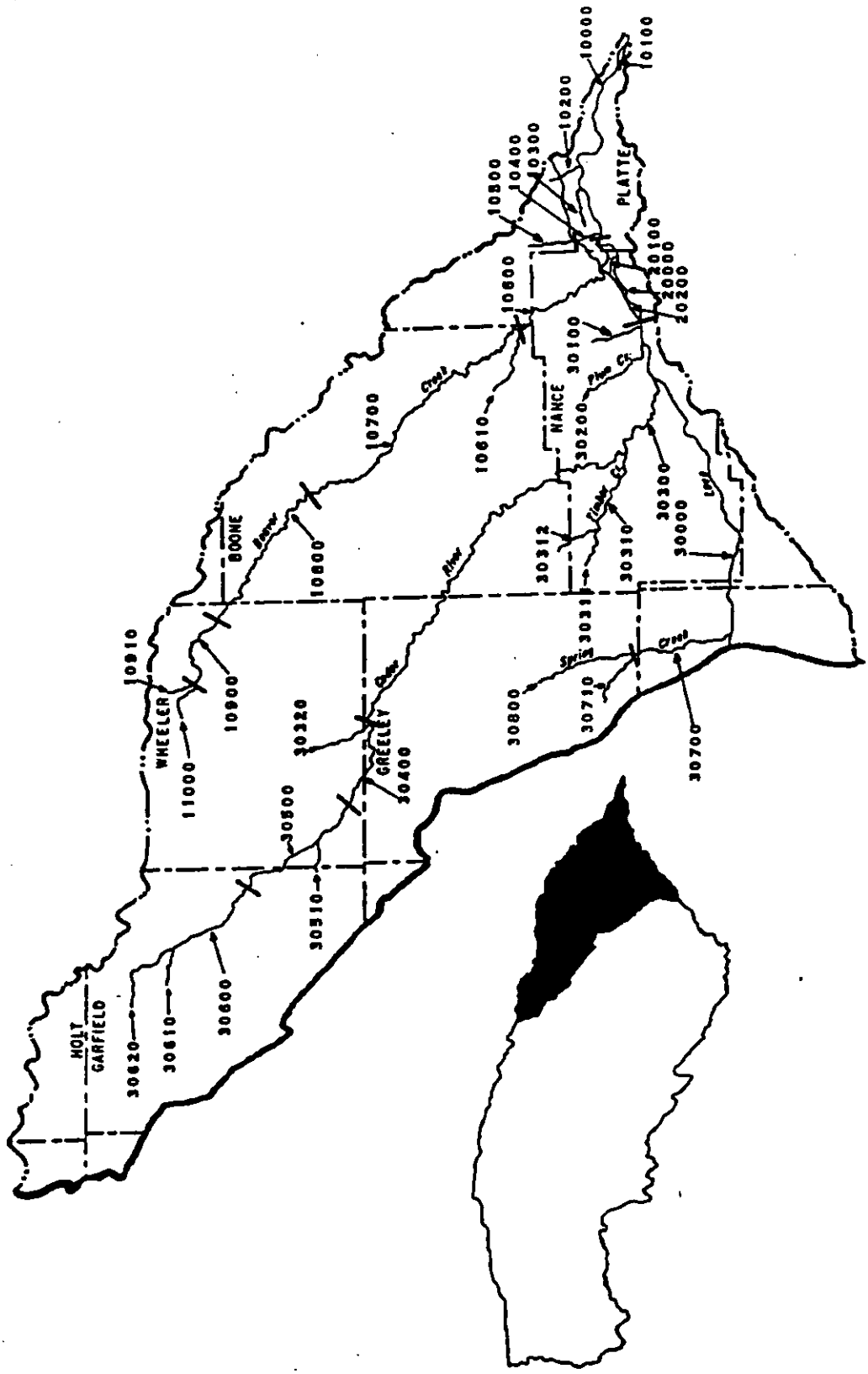
*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

Effective Date: _____



LOUP RIVER BASIN (and Subbasins)

Effective Date: _____



Subbasin LO1

Effective Date: _____

RIVER BASIN: Loup

Subbasin: LO1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Loup River - Beaver Creek to Platte River	10000		●		A*		A		●	i	
Barnum Creek	10100				A		A		●	i	
Cherry Creek	10200				B		A		●		
Unnamed Creek (Sec 7-17N-2W)	10300				B		A		●		
Looking-Glass Creek - Loup River Canal Siphon (Sec 5-17N-3W) to Loup River	10400				B		A		●		
Looking-Glass Creek - Headwaters to Loup River Canal Siphon (Sec 5-17-3W)	10500				B		A		●		
Beaver Creek - Bogus Creek to Loup River	10600				A		A		●	i,j	
Bogus Creek	10610				B		A		●		
Beaver Creek - Rae Creek (Sec 11-21N-7W) to Bogus Creek	10700				A		A		●	i,j	
Beaver Creek - Unnamed Creek (Sec 27-23N-9W) to Rae Creek (Sec 11-21N-7W)	10800				A		A		●	i	
Beaver Creek - Unnamed Creek (Sec 23-23N-10W) to Unnamed Creek (Sec 27-23N-9W)	10900				B		A		●		
Unnamed Tributary (Sec 23-23N-10W)	10910				B		A		●		
Beaver Creek - Headwaters to Unnamed Tributary (Sec 23-23N-10W)	11000				B		A		●		
Loup River - Loup River Canal Diversion (Sec 6-16N-4W) to Beaver Creek	20000				A*		A		●	i,j	
Unnamed Creek (Sec 25-17N-4W)	20100				B		A		●		
Loup River Canal - Diversion (Sec 6-16N-4W) to Sec 28-18N-2W (exits Loup River Basin into Lower Platte River Basin - see subbasin LP1)	20200				A		A		●	i,j	
Loup River - Confluence of North and Middle Loup Rivers to Loup River Canal Division (Sec 6-16N-4W)	30000		●		A		A		●	i,j	
Council Creek	30100				B		A		●		
Plum Creek	30200				B		A		●		
Cedar River - Clear Creek to Loup River	30300		●		A		A		●	i,j	
Timber Creek	30310				B		A		●		
South Branch Timber Creek	30311				B		A		●		

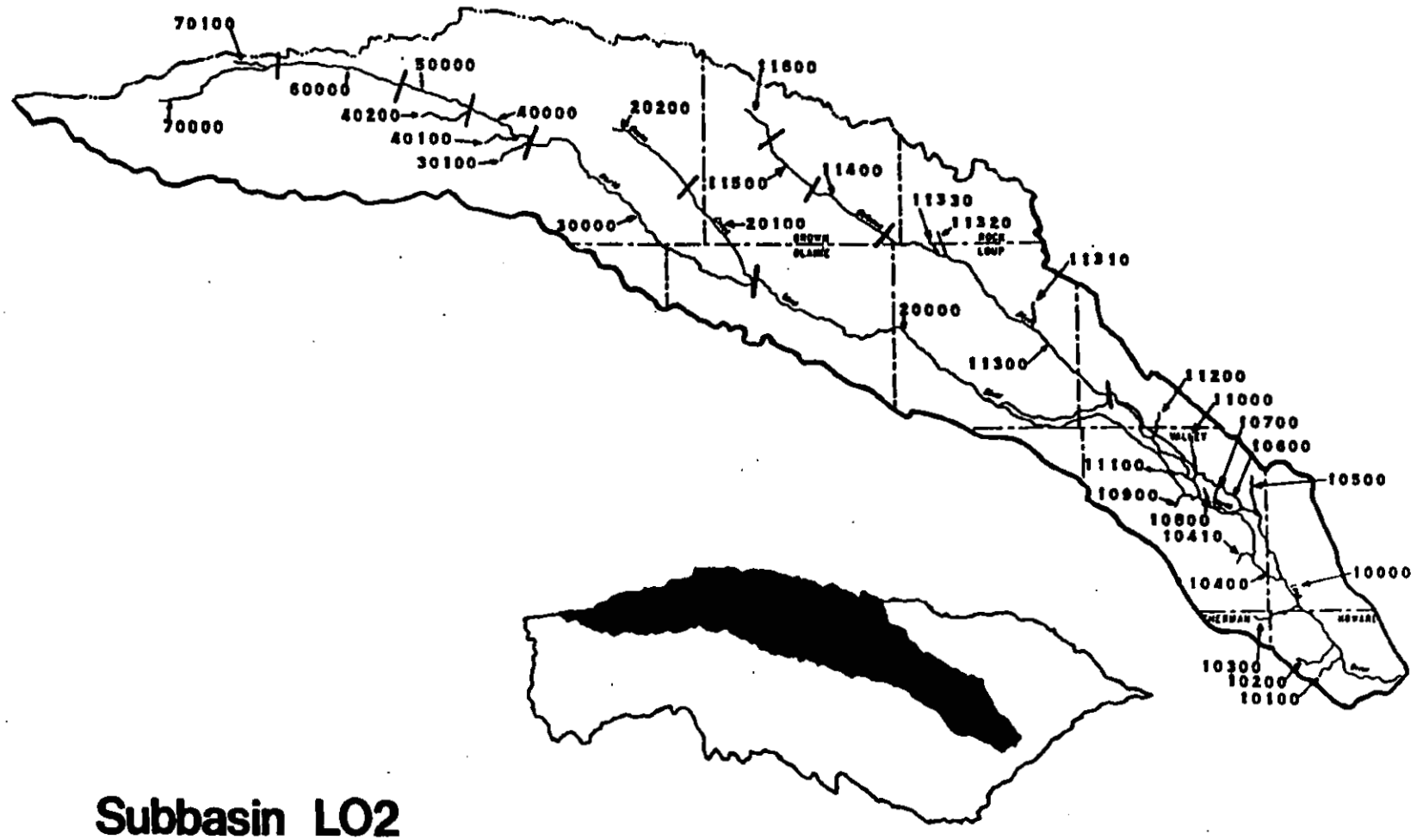
*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

RIVER BASIN: Loup

Subbasin: LO1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
North Branch Timber Creek	30312				B		A		●		
Clear Creek	30320				A		A		●	15	Sensitive Species
Cedar River - Lake Erikson Dam (Sec 25-21N-12W) to Clear Creek	30400				A		A		●	i,j	
Cedar River - Sec 14-22N-13W to Lake Erikson Dam (Sec 25-21N-12W)	30500				A		A		●	i	
Dry Cedar Creek	30510				B		A		●		
Cedar River - Confluence of Little Cedar and Big Cedar Creeks to Sec 14-22N-13W	30600				B		A		●		
Little Cedar Creek - Headwaters to Cedar River	30610				B		A		●		
Big Cedar Creek - Headwaters to Cedar River	30620				B		A		●		
Spring Creek - West Branch Spring Creek to Loup River	30700				A		A		●	i	
West Branch Spring Creek	30710				B		A		●		
Spring Creek - Headwaters to West Branch Spring Creek	30800				B		A		●		
North Loup River (see subbasin LO2)	—										
Middle Loup River (see subbasin LO3)	—										

Effective Date: _____



Subbasin LO2

RIVER BASIN: Loup

Subbasin: LO2

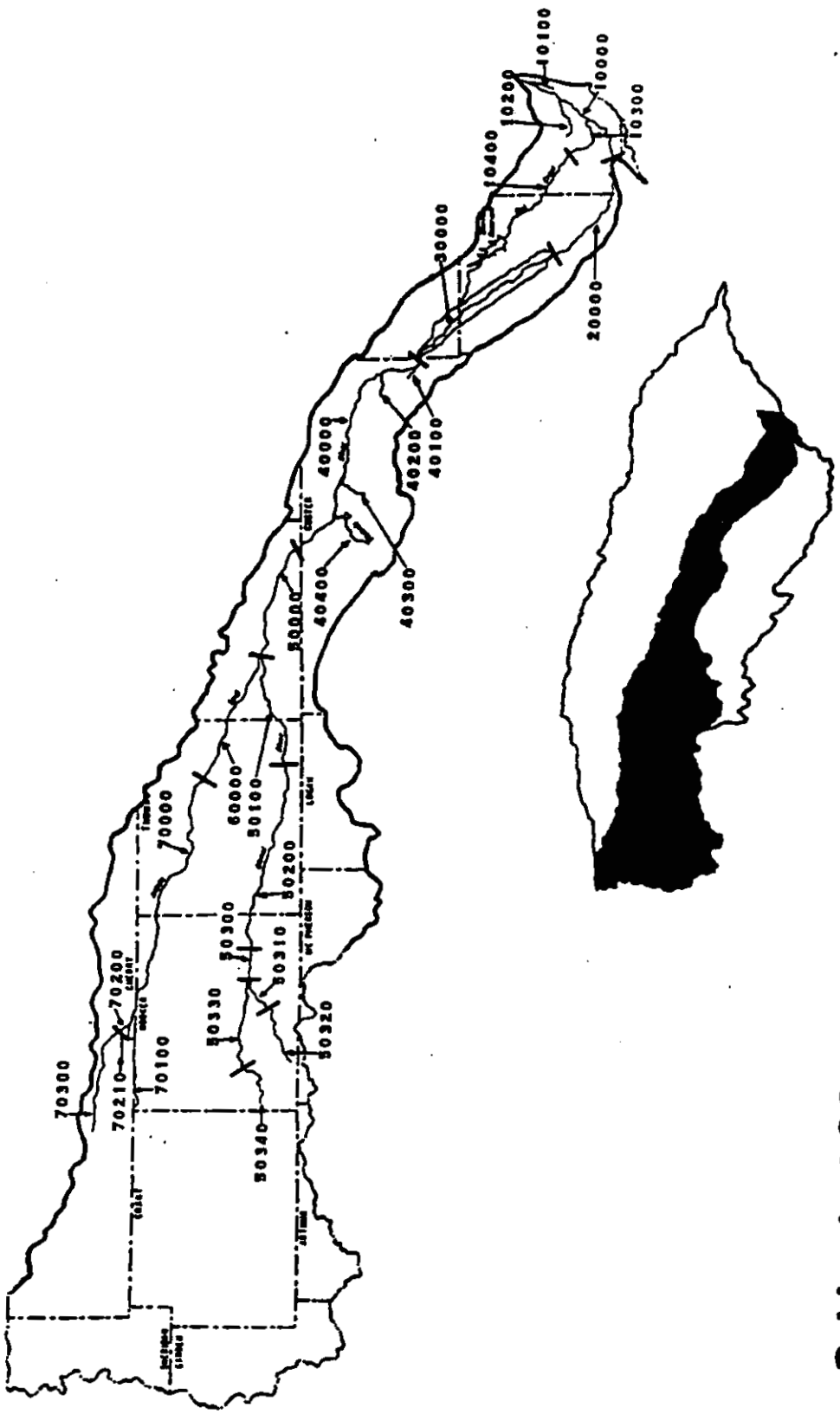
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
North Loup River - Calamus River to Loup River	10000		●		A		A		●	i	
Auger Creek	10100				B		A		●		
Munson Creek	10200				B		A		●		
Davis Creek	10300				B		A		●		
Mira Creek - South Branch Mira Creek to North Loup River	10400				B		A		●		
South Branch Mira Creek	10410				B		A		●		
Messenger Creek	10500			B			A		●	8,9	Sensitive Species
Spring Creek	10600				B		A		●		
Elm Creek	10700				B		A		●		
Unnamed Creek (Sec 25-19N-14W)	10800				B		A		●		
Dane Creek	10900				B		A		●		
Haskell Creek	11000				B		A		●		
Turtle Creek	11100				A		A		●	i	
Bean Creek	11200				A		A		●	9	Sensitive Species
Calamus River - Sec 25-25N-21W to North Loup River	11300	B	●	B			A		●	i,f	
Gracie Creek	11310			B			A		●	8,c	Sensitive Species
Bloody Creek	11320			B			A		●		
Skull Creek	11330				A		A		●	13, 16	Sensitive Species
Calamus River - Sec 28-26N-22W to Sec 25-25N-21W	11400	B	●	B			A		●	9,15 i,f	Sensitive Species
Calamus River - Sec 28-27N-23W to Sec 28-26N-22W	11500	B		B			A		●	9,15 i,f	Sensitive Species
Calamus River - Headwaters to Sec 28-27N-23W	11600	B		B			A		●	8	Sensitive Species
North Loup River - Goose Creek to Calamus River	20000		●	B			A		●	i	
Goose Creek - Sec 16-26N-25W to North Loup River	20100			B			A		●	3,4, 5,9	Threatened Species Sensitive Species
Goose Creek - Headwaters to Sec 16-26N-25W	20200			B			A		●	3,4, 5,9	Threatened Species Sensitive Species

Effective Date: _____

RIVER BASIN: Loup

Subbasin: LO2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
North Loup River - Pass Creek to Goose Creek	30000		●	B			A		●	i	
Pass Creek	30100				B		A		●	3,4	Threatened Species
North Loup River - Big Creek to Pass Creek	40000		●	B			A		●	i	
Brush Creek	40100			B			A		●	3,4, 5,6, 17	Threatened Species Endangered Species
Big Creek	40200			B			A		●	3,4, 5	Threatened Species
North Loup River - Sec 21-28N-31W to Big Creek	50000			B			A		●		
North Loup River - Sec 10-28N-34W to Sec 21-28N-31W	60000			B			A		●	3	Threatened Species
North Loup River - Headwaters to Sec 10-28N-34W	70000			B			A		●		
Mud Creek	70100			B			A		●	3,4	Threatened Species



Subbasin LO3

Effective Date: _____

RIVER BASIN: Loup

Subbasin: LO3

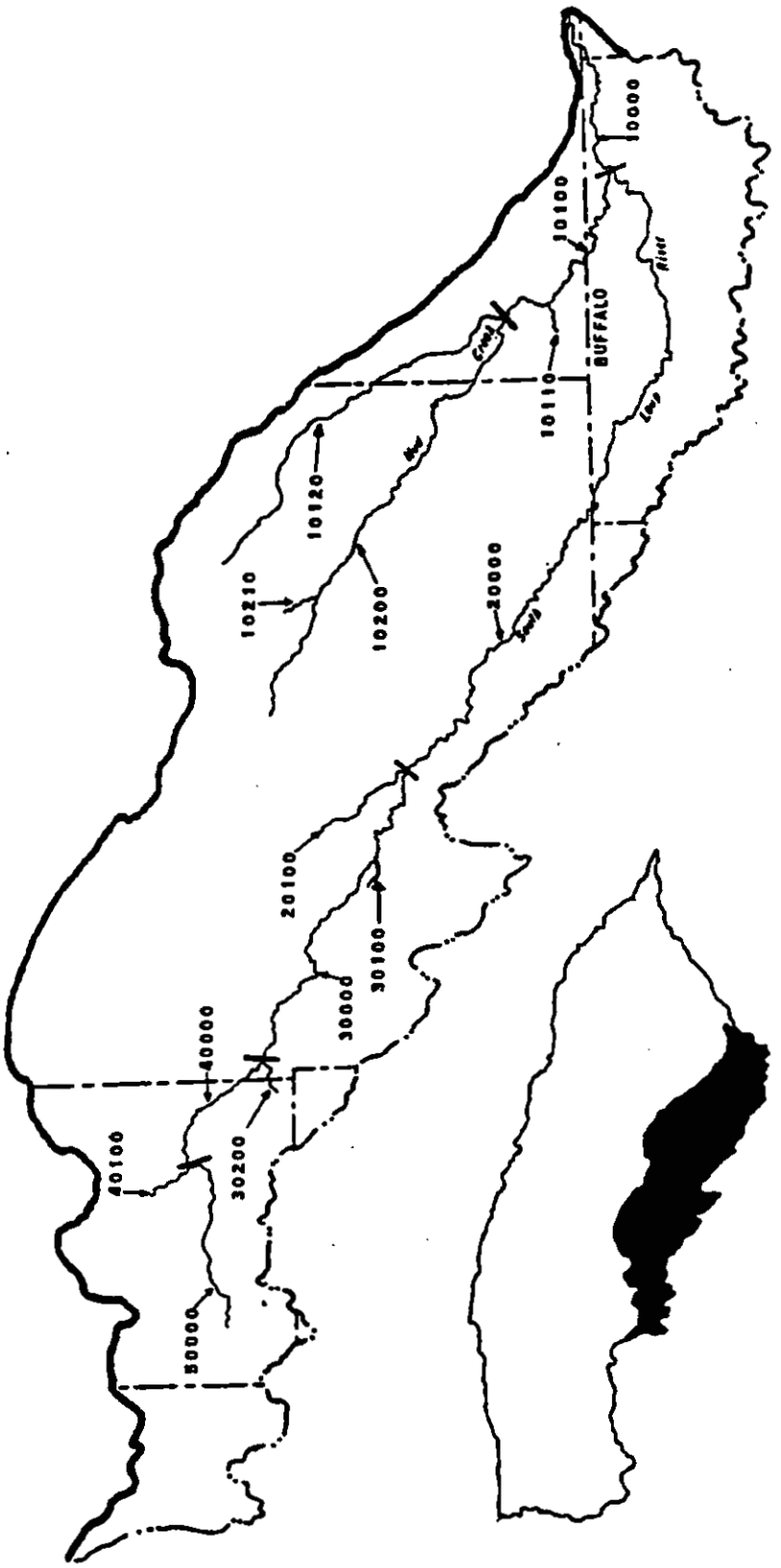
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Middle Loup River - South Loup River to Loup River	10000		●		A		A		●	i	
Lake Creek	10100				B		A		●		
Turkey Creek	10200				B		A		●		
Oak Creek - Unnamed Creek (Sec 30-14N-11W) to Middle Loup River	10300				B		A		●		
Oak Creek - Headwaters to Unnamed Creek (Sec 30-14N-11W)	10400				B		A		●		
Middle Loup River - Canal 4 Return (Sec 9-14N-14W) to South Loup River	20000		●		A		A		●	i	
Middle Loup River- Sherman Feeder Canal Diversion (Sec 35-18N-17W) to Canal 4 Return (Sec 9-14N-14W)	30000		●		A		A		●	i	
Middle Loup River - Miburn-Sargent Canal Diversion (Sec 32-21N-21W) to Sherman Feeder Canal Diversion (Sec 35-18N-17W)	40000		●		A		A		●	i	
Unnamed Creek (Sec 14-18N-17W)	40100				B		A		●		
Wagner Creek	40200				B		A		●		
Lillian Creek	40300				B		A		●		
Victoria Creek	40400			B			A		●	i	
Middle Loup River - Dismal River to Milburn-Sargent Canal Diversion (Sec 32-21N-21W)	50000		●		A		A		●	i	
Dismal River - Sec 22-21N-27W to Middle Loup River	50100		●	B			A		●	d,i	
Dismal River - Sec 30-22N-31W to Sec 22-21N-27W	50200		●	B			A		●	d,i	
Dismal River - Confluence of North Fork and South Fork Dismal Rivers to Sec 30-22N-31W	50300		●	B			A		●	d	
South Fork Dismal River - Spring Creek to Dismal River	50310			B			A		●	d	
South Fork Dismal River - Headwaters to Spring Creek	50320			B			A		●		
North Fork Dismal River - Bobtail Creek to Dismal River	50330			B			A		●	d	
North Fork Dismal River - Headwaters to Bobtail Creek	50340			B			A		●		
Middle Loup River - Sec 17-23N-27W to Dismal River	60000		●	B			A		●	d,e,i	

RIVER BASIN: Loup

Subbasin: LO3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Middle Loup River - Confluence of North Branch and South Branch Middle Loup Rivers to Sec 17-23N-27W	70000		●	B			A		●	d,e	
South Branch Middle Loup River	70100			B			A		●	5,11 d,e	Threatened Species Sensitive Species
North Branch Middle Loup River - Middle Branch Middle Loup River to South Branch *Middle Loup River*	70200			B			A		●	4,5, d,e	Threatened Species
Middle Branch Middle Loup River	70210			B			A		●	4,5	Threatened Species
North Branch Middle Loup River - Headwaters *to Middle Branch Middle Loup River*	70300			B			A		●	4,5, d,e	Threatened Species
South Loup River (see subbasin LO4)	—										

Effective Date: _____



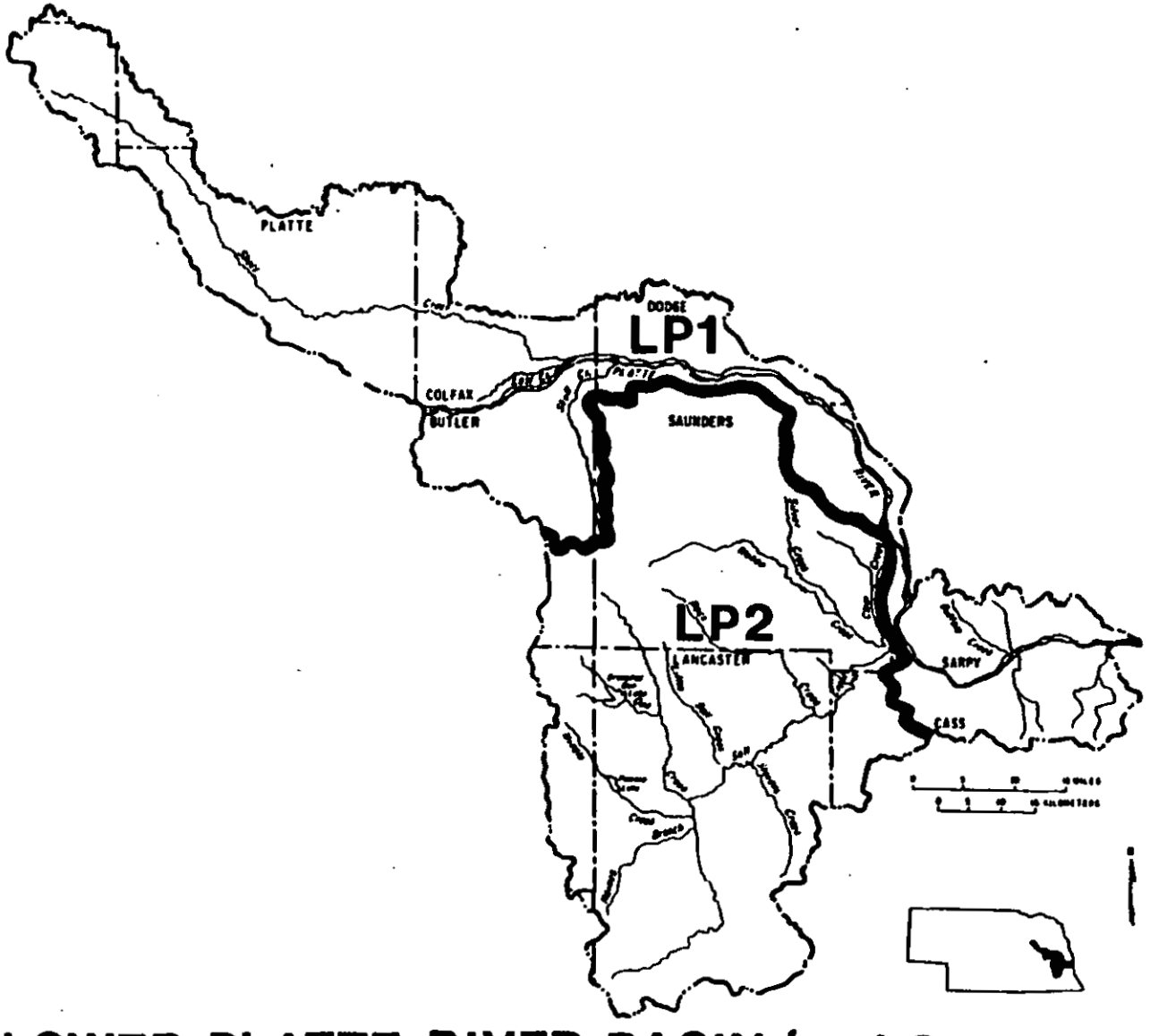
Subbasin LO4

RIVER BASIN: Loup

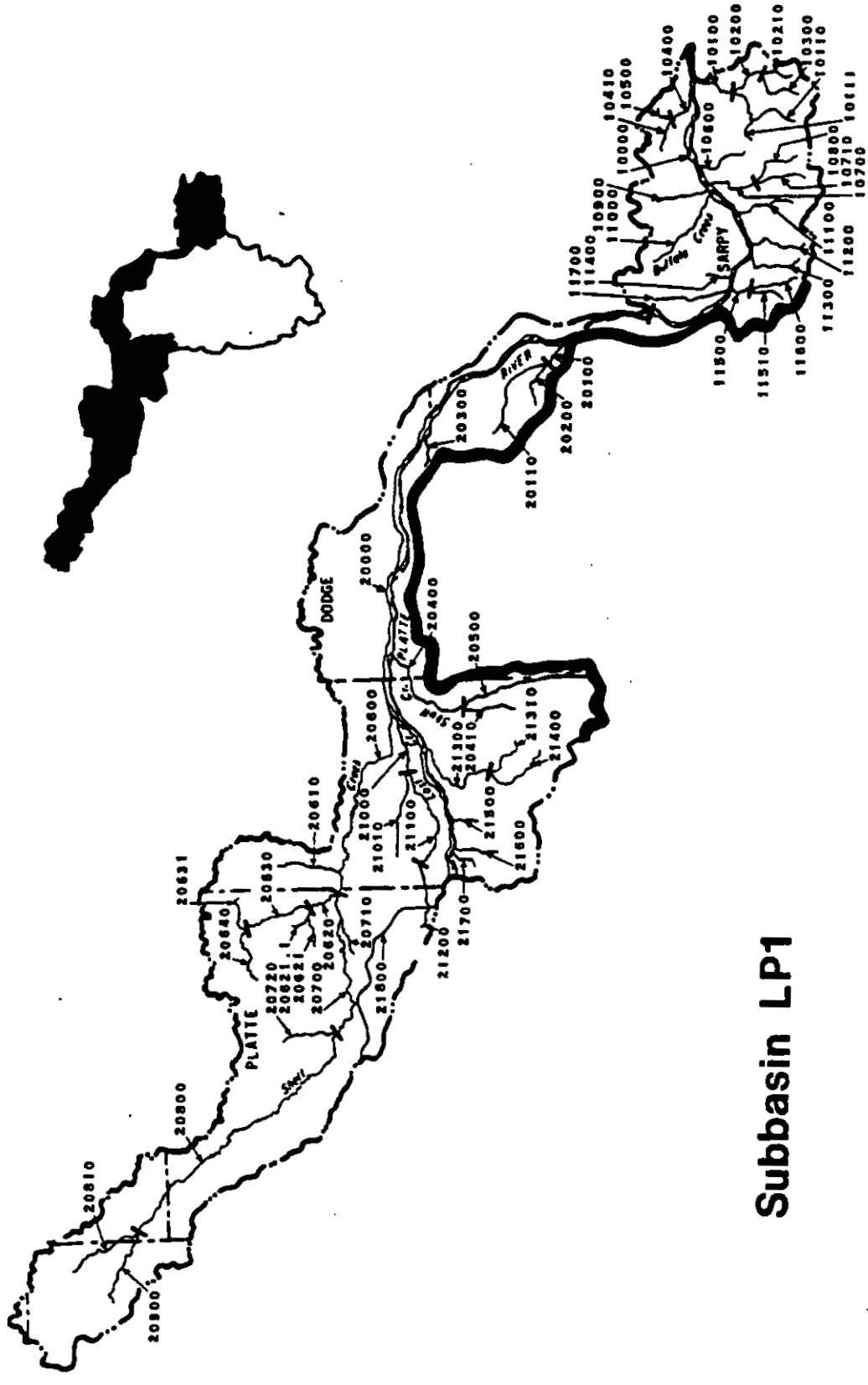
Subbasin: LO4

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
South Loup River - Mud Creek to Middle Loup River	10000		●		A		A		●	i	
Mud Creek - Clear Creek to South Loup River	10100				B		A		●		
Spring Branch	10110				B		A		●		
Clear Creek	10120				B		A		●		
Mud Creek - Headwaters to Clear Creek	10200		●		B		A		●		
Dutchman Valley	10210				B		A		●		
South Loup River - Spring Creek to Mud Creek	20000		●		A		A		●	i	
Spring Creek	20100				B		A		●		
South Loup River - Unnamed Creek (Sec 28-17N-25W) to Spring Creek	30000		●		A		A		●	i	
Unnamed Creek (Sec 2-15N-23W)	30100			B			A		●	4,5	Threatened Species
Unnamed Creek (Sec 28-17N-25W)	30200			B			A		●	3	Threatened Species
South Loup River - North Fork South Loup River to Unnamed Creek (Sec 28-17N-25W)	40000				A		A		●	f,i	
North Fork South Loup River	40100			B			A		●		
South Loup River - Headwaters to North Fork South Loup River	50000			B			A		●	3,13 f,i	Threatened Species Sensitive Species

Effective Date: _____



LOWER PLATTE RIVER BASIN (and Subbasins)



Subbasin LP1

Effective Date: _____

RIVER BASIN: Lower Platte

Subbasin: LP1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Platte River - Elkhorn River to Missouri River	10000		●		A*	●	A		●	1,2, h,i,j, v,w	Endangered Species Threatened Species
Fourmile Creek - Eightmile Creek to Platte River	10100				B		A		●		
Eightmile Creek	10110				B		A		●	i	
Bachelor Branch	10111				B		A		●		
Fourmile Creek - Unnamed Creek (Sec 34-12N-13E) to Eightmile Creek	10200				B		A		●		
Unnamed Creek (Sec 34-12N-13E)	10210				B		A		●		
Fourmile Creek - Headwaters to Unnamed Creek (Sec 34-12N-13E)	10300				B		A		●		
Zwiebel Creek - Unnamed Creek (Sec 24-13N-12E) to Platte River	10400				B		A		●	i	
Unnamed Creek (Sec 24-13N-12E)	10410				B		A		●		
Zwiebel Creek - Headwaters to Unnamed Creek (Sec 24-13N-12E)	10500				B		A		●		
Turkey Creek	10600				B		A		●		
Cedar Creek - Unnamed Creek (Sec 30-12N-12E) to Platte River	10700				B		A		●		
Unnamed Creek (Sec 30-12N-12E)	10710				B		A		●		
Cedar Creek - Headwaters to Unnamed Creek (Sec 30-12N-12E)	10800				B		A		●		
Springfield Creek	10900				B		A		●		
Buffalo Creek	11000				B		A		●		
Mill Creek	11100				B		A		●		
Decker Creek	11200				B		A		●	i	
Fountain Creek	11300				B		A		●		
Unnamed Creek (Sec 11-12N-10E)	11400				B		A		●		
Pawnee Creek - West Branch Pawnee Creek to Platte River	11500				B		A		●		
West Branch Pawnee Creek	11510				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

RIVER BASIN: Lower Platte

Subbasin: LP1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Pawnee Creek - Headwaters to West Branch Pawnee Creek	11600				B		A		●		
Western Sarpy Ditch	11700				B		A		●		
Salt Creek (see subbasin LP2)	—										
Elkhorn River (see Elkhorn River Basin)	—										
Platte River - Clear Creek to Elkhorn River	20000		●		A*	●	A		●	i,j,w	
Clear Creek - Upper Clear Creek to Platte River	20100				B		A		●		
Upper Clear Creek	20110				B		A		●		
Clear Creek - Headwaters to Upper Clear Creek	20200				B		A		●		
Otoe Creek	20300				B		A		●		
Skull Creek - Unnamed Creek (Sec 15-16N-4E) to Platte River	20400				B		A		●		
Unnamed Creek (Sec 15-16N-4E)	20410				B		A		●		
Skull Creek - Headwaters to Unnamed Creek (Sec 15-16N-4E)	20500				B		A		●		
Shell Creek - Loseke Creek to Platte River	20600				A		A		●	i	
Taylor Creek	20610				B		A		●		
Loseke Creek - Schaad Creek to Shell Creek	20620				B		A		●		
Schaad Creek	20621				B		A		●		
Unnamed Creek (Sec 3-18N-1E)	20621.1				B		A		●		
Loseke Creek - Unnamed Creek (Sec 10-19N-1E) to Short Schaad Creek	20630				B		A		●		
Unnamed Creek (Sec 10-19N-1E)	20631				B		A		●		
Loseke Creek - Headwaters to Unnamed Creek (Sec 10-19N-1E)	20640				B		A		●		
Shell Creek - Elm Creek to Loseke Creek	20700				B		A		●		
Unnamed Creek (Sec 22-18N-1E)	20710				B		A		●		
Elm Creek	20720				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

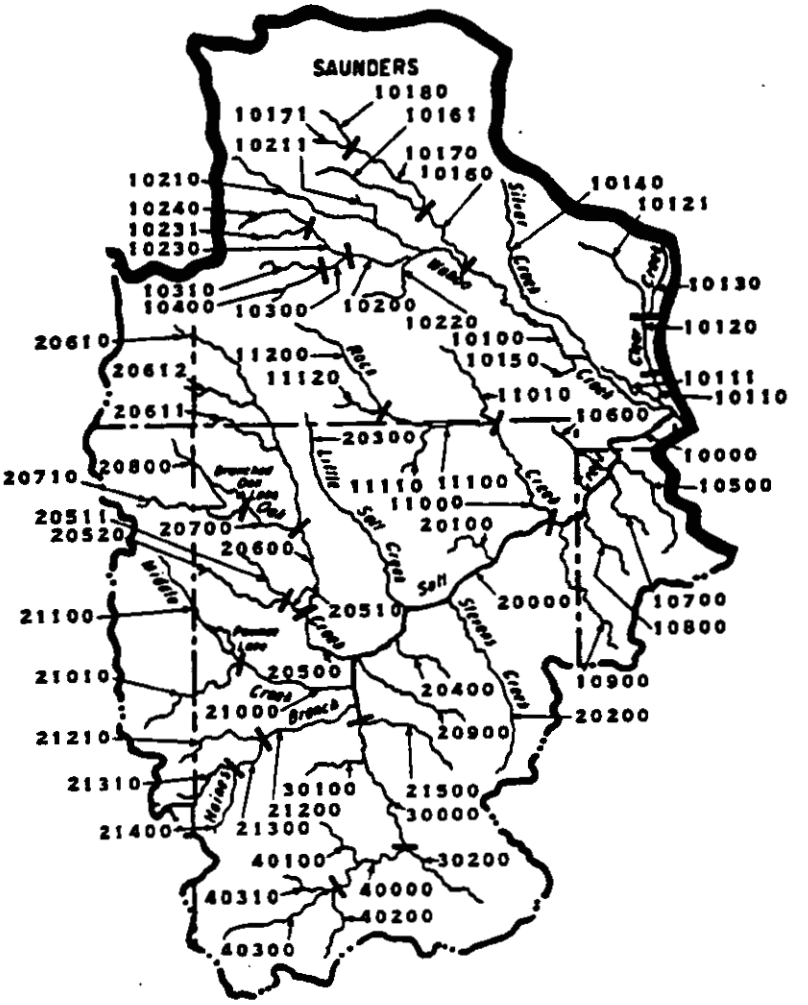
Effective Date: _____

RIVER BASIN: Lower Platte

Subbasin: LP1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Shell Creek - North Shell Creek to Elm Creek	20800				B		A		●		
North Shell Creek	20810				B		A		●		
Shell Creek - Headwaters to North Shell Creek	20900				B		A		●		
Lost Creek - Shonka Ditch to Platte River	21000				A*		A		●	i	
Shonka Ditch - Headwaters to Lost Creek	21010				B		A		●		
Lost Creek - Sec 21-17N-2E to Shonka Ditch	21100				B		A		●		
Lost Creek - Headwaters to Sec 21-17N-2E	21200				B		A		●		
Bone Creek - Unnamed Creek (Sec 21-16N3E) to Platte River-	21300				B		A		●		
Unnamed Creek (Sec 21-16N-3E)	21310				B		A		●		
Bone Creek - Headwaters to Unnamed Creek (Sec 21-16N-3E)	21400				B		A		●		
Unnamed Creek (Sec 7-16N-23E)	21500				B		A		●		
Deer Creek	21600				B		A		●		
Unnamed Creek (Sec 3-16N-2E)	21700				B		A		●		
Loup River Canal - Sec 28-18N-2W to Sec 35-17N-1E (enters Lower Platte River Basin from Loup River; exits into Middle Platte River Basin - see subbasins LO1 and MP1)	21800		●		A		A		●	ij	
Clear Creek (see Middle Platte River Basin)	----										

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).



Subbasin LP2

Effective Date: _____

RIVER BASIN: Lower Platte

Subbasin: LP2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Salt Creek - Rock Creek to Platte River	10000		●		A*		B		●	i,w	
Wahoo Creek - Sand Creek to Salt Creek	10100				A		A		●	i	
Clear Creek - Sec 14-13N-9E to Wahoo Creek	10110				A		A		●	i	
Silver Creek	10111				B		A		●		
Clear Creek - Johnson Creek to Sec 14-13N-9E	10120				B		A		●		
Johnson Creek	10121				B		A		●		
Clear Creek - Headwaters to Johnson Creek	10130			B			A		●	8	Sensitive Species
Silver Creek	10140				B		A		●		
Mosquito Creek	10150				B		A		●		
Sand Creek - Duck Creek to Wahoo Creek	10160				B		A		●		
Duck Creek	10161				B		A		●		
Sand Creek - Spring Creek to Duck Creek	10170				B		A		●		
Spring Creek	10171				B		A		●		
Sand Creek - Headwaters to Spring Creek	10180				B		A		●		
Wahoo Creek - North Fork Wahoo Creek to Sand Creek	10200				A		A		●	i	
Cottonwood Creek	10210				B		A		●		
Unnamed Creek (Sec 23-15N-6E)	10211				B		A		●		
Miller Branch	10220				B		A		●		
North Fork Wahoo Creek - Unnamed Creek (Sec 32-15N-6E) to Wahoo Creek	10230				B		A		●		
Unnamed Creek (Sec 32-15N-6E)	10231				B		A		●		
North Fork Wahoo Creek - Headwaters to Unnamed Creek (Sec 32-15N-6E)	10240				B		A		●		
Wahoo Creek - Dunlap Creek to North Fork Wahoo Creek	10300				B		A		●		
Dunlap Creek	10310				B		A		●		
Wahoo Creek - Headwaters to Dunlap Creek	10400				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

RIVER BASIN: Lower Platte

Subbasin: LP2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Callahan Creek	10500				B		A		●		
Robinson Creek	10600				B		A		●		
Greenwood Creek	10700				B		A		●		
Dee Creek	10800				B		A		●		
Camp Creek	10900				B		A		●		
Rock Creek - North Fork Rock Creek to Salt Creek	11000				A		A		●	i	
North Fork Rock Creek	11010				B		A		●		
Rock Creek - Little Rock Creek to North Fork Rock Creek	11100				B		A		●		
Ash Hollow Creek	11110				B		A		●		
Little Rock Creek	11120				B		A		●		
Rock Creek - Headwaters to Little Rock Creek	11200				B		A		●		
Salt Creek - Beal Slough to Rock Creek	20000		●		A*		B		●	i,w	
Jordan Creek	20100				B		A		●		
Stevens Creek	20200				B		A		●		
Little Salt Creek	20300				B		B		●		
Dead Man's Run	20400		●		B		A		●		
Oak Creek - Elk Creek to Salt Creek	20500		●		A		B		●		
Elk Creek - West Oak Creek to Oak Creek	20510				B		A		●		
West Oak Creek	20511				B		A		●		
Elk Creek - Headwaters to West Oak Creek	20520				B		A		●		
Oak Creek - North Oak Creek to Elk Creek	20600				B		A		●		
North Oak Creek	20610				B		A		●		
Wagon Tongue Creek	20611				B		A		●		
Bates Branch	20612				B		A		●		
Oak Creek - Middle Oak Creek to North Oak Creek	20700				B		A		●		
Middle Oak Creek	20710				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

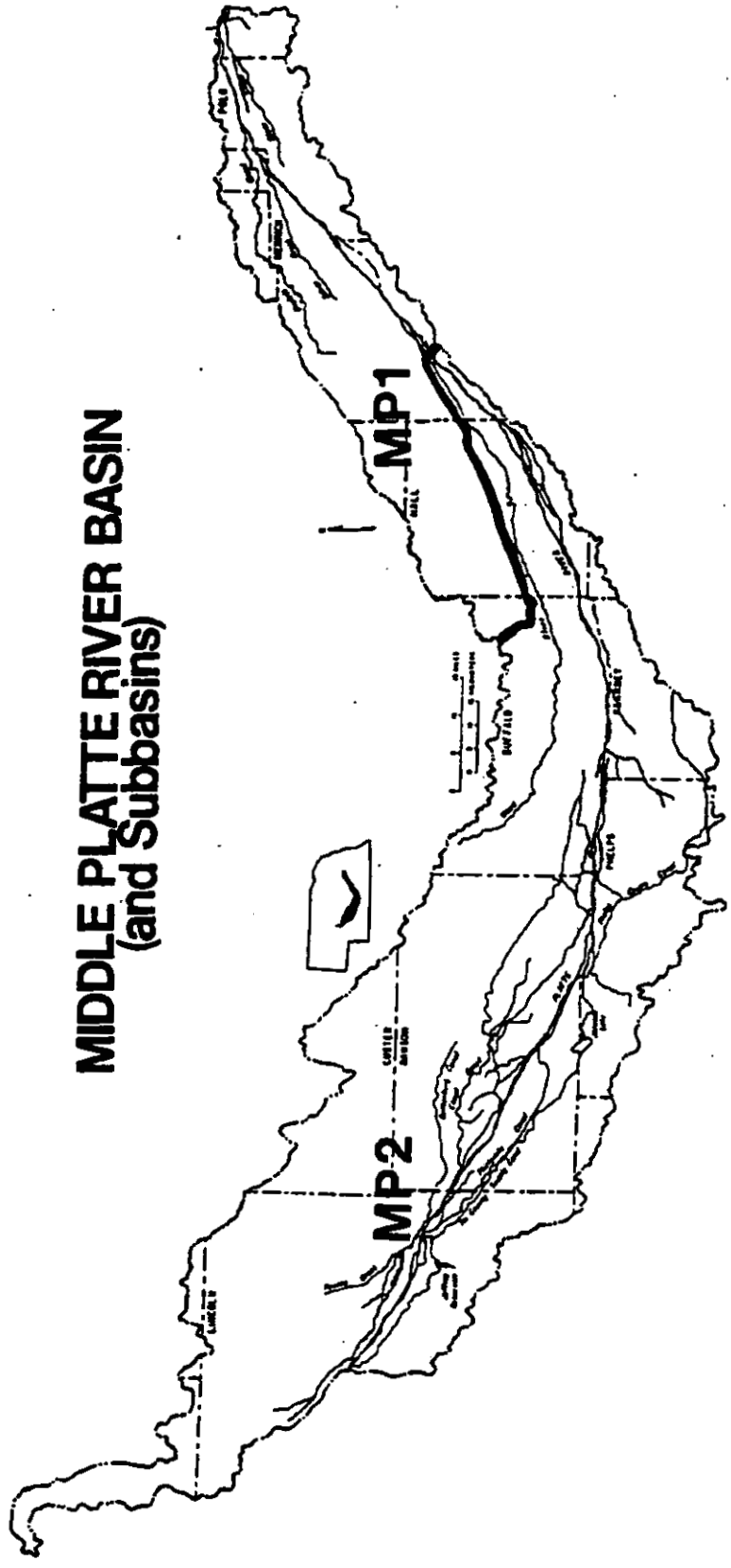
Effective Date: _____

RIVER BASIN: Lower Platte

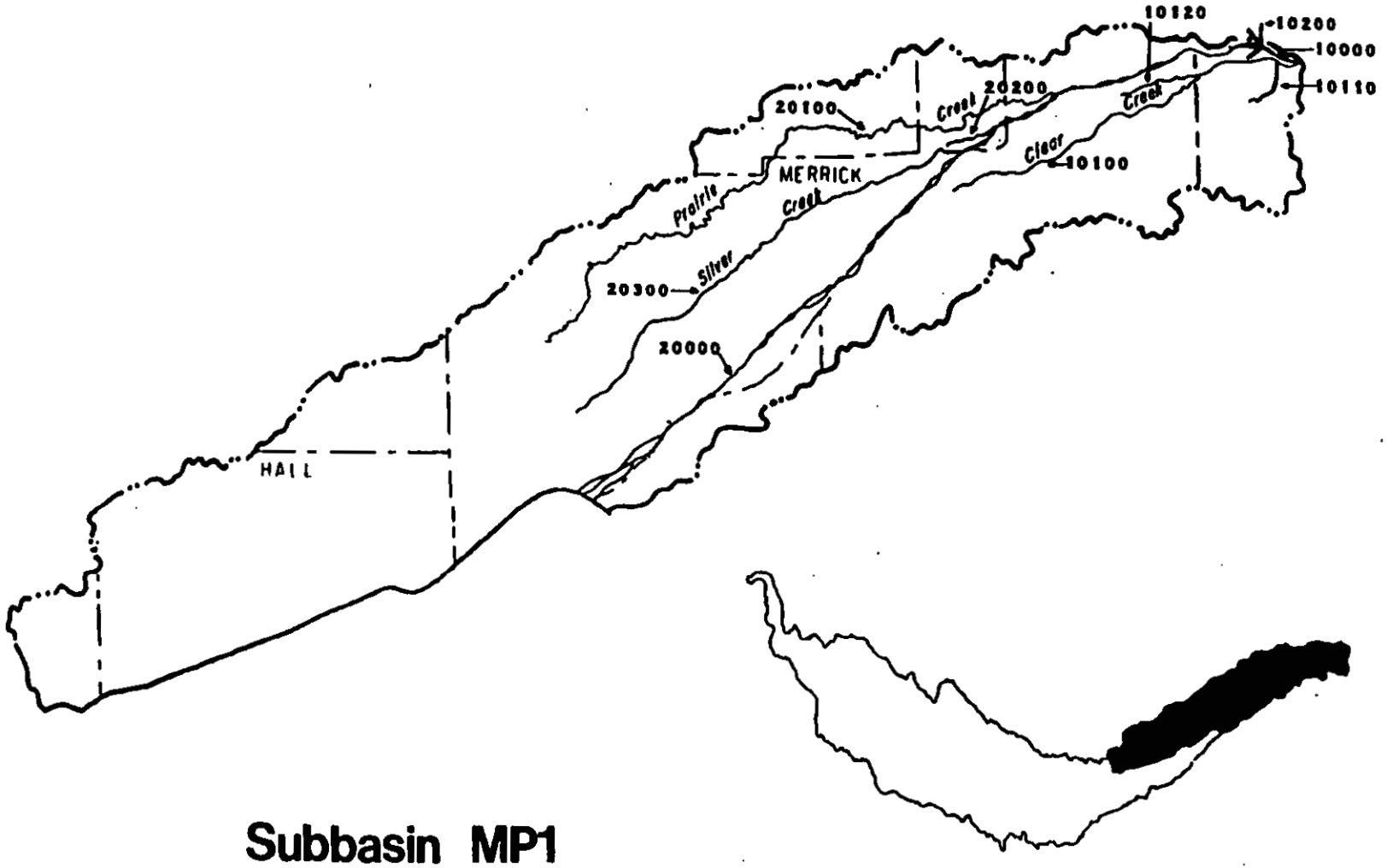
Subbasin: LP2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Oak Creek - Headwaters to Middle Oak Creek	20800				B		A		●		
Antelope Creek	20900		●		B		A		●		
Middle Creek - South Branch Middle Creek to Salt Creek	21000				B		A		●		
South Branch Middle Creek	21010				B		A		●		
Middle Creek - Headwaters to South Branch Middle Creek	21100				B		A		●		
Haines Branch - Holmes Creek to Salt Creek	21200				B		B		●		
Holmes Creek	21210				B		A		●		
Haines Branch - Cheese Creek to Holmes Creek	21300				B		A		●		
Cheese Creek	21310				B		A		●		
Haines Branch - Headwaters to Cheese Creek	21400				B		A		●		
Beal Slough	21500				B		A		●		
Salt Creek - Hickman Branch to Beal Slough	30000				A*		A		●	i,w	
Cardwell Branch	30100				B		A		●		
Hickman Branch	30200				B		A		●		
Salt Creek - Confluence of Spring Branch and Olive Branch to Hickman Branch	40000				B		A		●		
Wittstruck Creek	40100				B		A		●		
Spring Branch	40200				B		A		●		
Olive Branch	40300				B		A		●		
North Branch	40310				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).



Effective Date: _____



Subbasin MP1

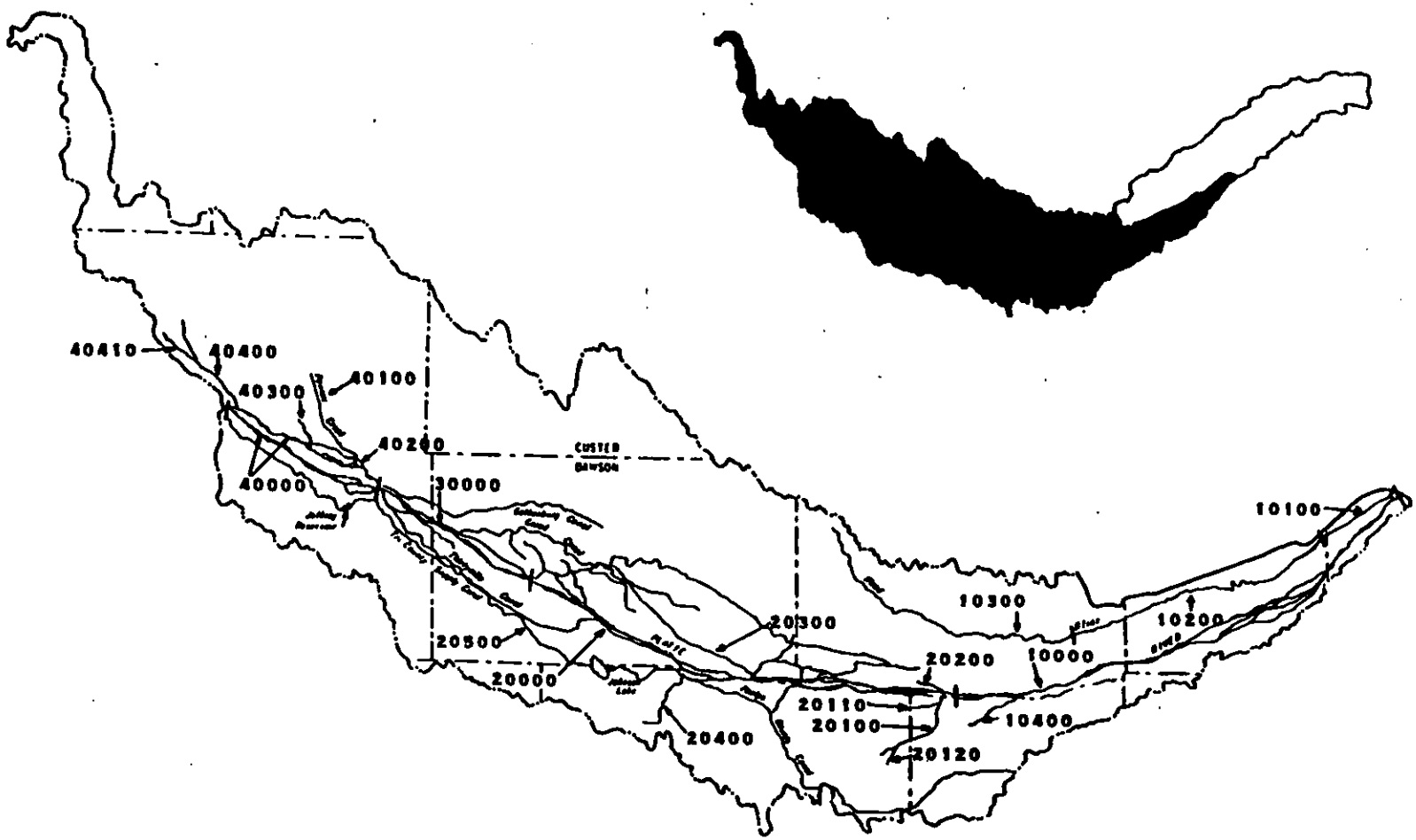
RIVER BASIN: Middle Platte

Subbasin: MP1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Platte River - Loup Power Canal (Sec 35-17N-1E) to Clear Creek	10000		●		A*		A		●	i,j	
Clear Creek	10100			B			A		●	f,i,r	
Wilson Creek	10110				B		A		●		
South Channel Platte River	10120			B			A		●	o	
Loup Power Canal - Sec 35-17N-1E to Platte River (enters Middle Platte River Basin from Lower Platte River Basin - see subbasin LP1)	10200				A		A		●	i,j	
Platte River - Wood River to Loup Power Canal (Sec 35-17N-1E)	20000		●		A*		A		●	i,j	
Prairie Creek	20100				B		A		●	i,n	
Silver Creek - Sec 34-16N-3W to Platte River (Sec 25-16N-3W)	20200				B		A		●		
Silver Creek - Headwaters to Platte River (Sec 33-16N-3W)	20300				A		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

Effective Date: _____



Subbasin MP2

Effective Date: _____

RIVER BASIN: Middle Platte

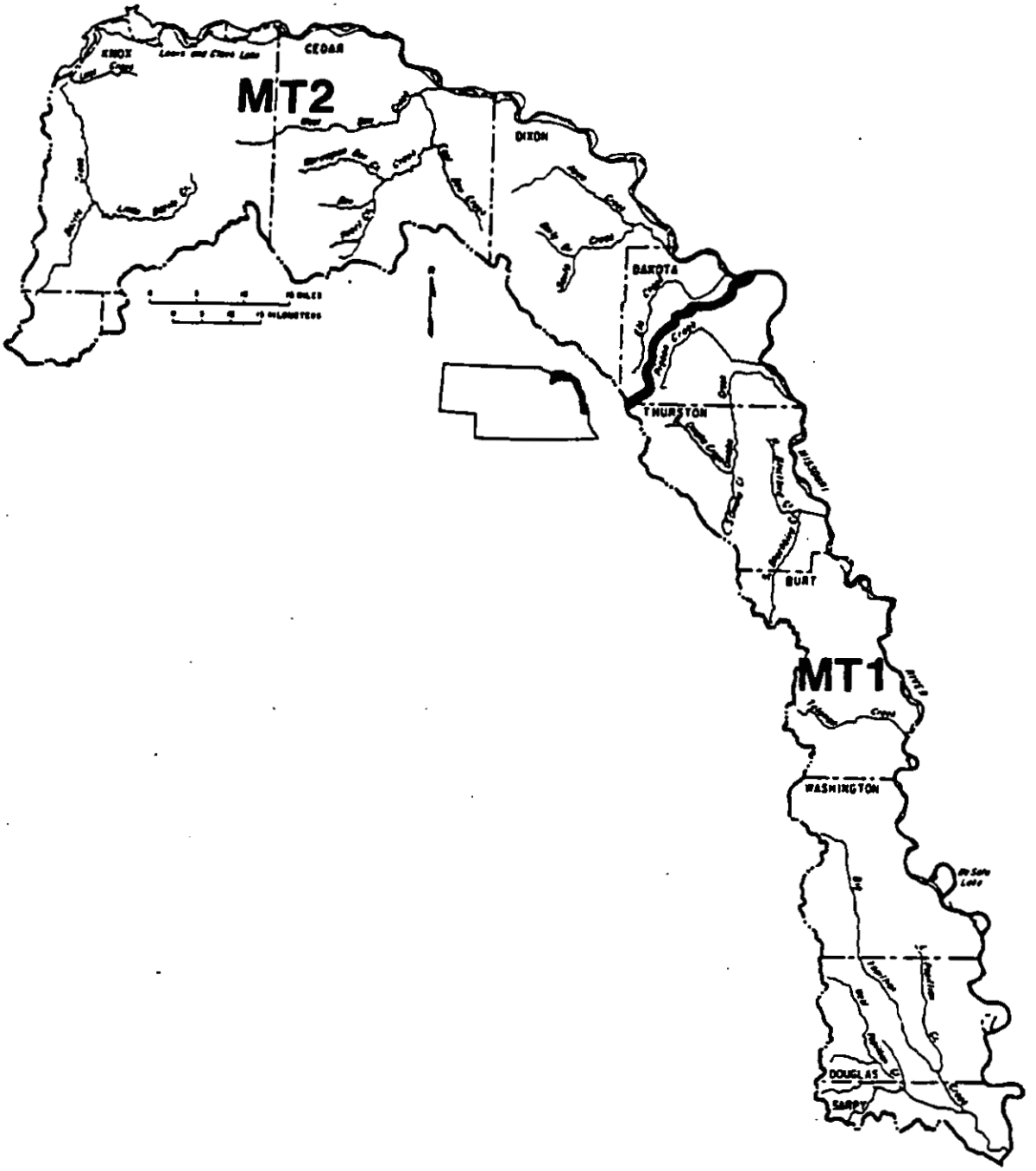
Subbasin: MP2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Platte River - Kearney Canal Return (Sec 11-8N-16W) to Wood River	10000		●		A*		A		●	i,j	
Wood River - Grand Island Utilities Ditch (Sec 13-11N-9W) to Platte River	10100				A*		A		●	i	
Wood River - Sec 12-9N-14W to Grand Island Utilities Ditch (Sec 13-11N-9W)	10200				B**		A		●	i	
Wood River - Headwaters to Sec 12-9N-14W	10300				B		A		●	i	
Crooked Creek	10400				B		A		●		
Platte River - Dawson County Canal Diversion (Sec 18-10N-23W) to Kearney Canal Return (Sec 11-8N-16W)	20000		●		A*		A		●	i,j	
North Dry Creek	20100				B		A		●	i	
Whiskey Slough	20110				B		A		●		
Unnamed Creek (Sec 29-7N-17W)	20120				B		A		●		
Turkey Creek	20200				B		A		●		
Spring Creek	20300				A		A		●		
Plum Creek	20400				A		A		●		
Tri-County Supply Canal - North Platte Diversion Dam (Sec 7-13N-29W) to J-2 Return on Platte River (Sec 2-8N-21W)	20500				A		A		●	8,i,j,l,n,o s,w	Sensitive Species
Platte River - Thirty Mile Canal Diversion (Sec 30-12N-26W) to Dawson County Canal Diversion (Sec 18-10N-23W)	30000		●		A*		A		●	i,j	
Platte River - Confluence of North and South Platte Rivers to Thirty Mile Canal Diversion (Sec 30-12N-26W)	40000		●		A*		A		●	i,j	
Pawnee Creek	40100				B		A		●		
Pawnee Slough	40200				B		A		●		
Unnamed Slough (Sec 29-13N-28W)	40300				B		A		●		
White Horse Creek	40400			B			A		●	f,i,n	
Unnamed Creek (Sec 21-14N-30W)	40410				B		A		●		

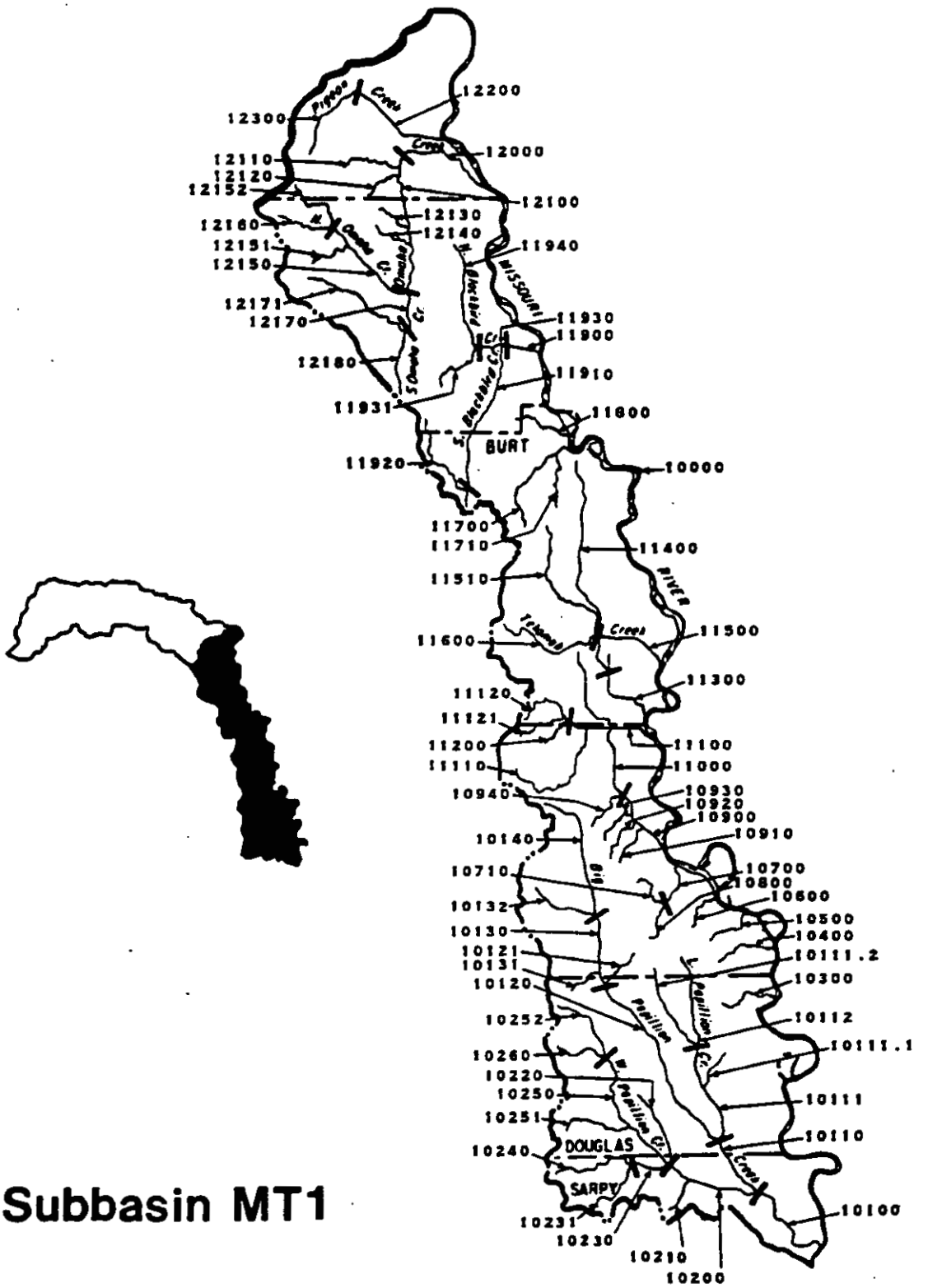
*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

**Seasonal designation, applies from March 1 through October 31.

Effective Date: _____



MISSOURI TRIBUTARIES RIVER BASIN
(and Subbasins)



Subbasin MT1

Effective Date: _____

RIVER BASIN: Missouri Tributaries

Subbasin: MT1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Missouri River - Big Sioux River to Platte River	10000		●		A	●	A	●	●	1,2, b,h, i,j	Endangered Species Threatened Species
Papillion Creek - Big Papillion Creek to Missouri River	10100				A		A		●	i	
Big Papillion Creek - Little Papillion Creek to Papillion Creek	10110		●		A		A		●		
Little Papillion Creek - Thomas Creek to Big Papillion Creek	10111				B		A		●		
Cole Creek	10111.1				B		A		●		
Thomas Creek	10111.2				B		A		●		
Little Papillion Creek - Headwaters to Thomas Creek	10112				B		A		●		
Big Papillion Creek - Butter Flat Creek to Little Papillion Creek	10120		●		A		A		●		
Butter Flat Creek	10121				B		A		●		
Big Papillion Creek - Northwest Branch (Sec 5-17N-9E) to Butter Flat Creek	10130				B		A		●		
Unnamed Creek (Sec 4-16N-11E)	10131				B		A		●		
Northwest Branch (Sec 5-17N-9E)	10132				B		A		●		
Big Papillion Creek - Headwaters to Northwest Branch (Sec 5-17N-9E)	10140				B		A		●		
Papillion Creek - South Papillion Creek to Big Papillion Creek	10200				A		A		●		
Walnut Creek	10210				B		A		●		
Hell Creek	10220				B		A		●		
South Papillion Creek - Unnamed Creek (Sec 14-14N-11E) to Papillion Creek	10230				B		A		●		
Unnamed Creek (Sec 14-14N-11E)	10231				B		A		●		
South Papillion Creek - Headwaters to Unnamed Creek (Sec 14-14N-11E)	10240				B		A		●		
West Papillion Creek - North Branch West Papillion Creek to Papillion Creek	10250				B		A		●		
Boxelder Creek	10251				B		A		●		
North Branch West Papillion Creek - Headwaters to West Papillion Creek	10252				B		A		●		

RIVER BASIN: Missouri Tributaries

Subbasin: MT1

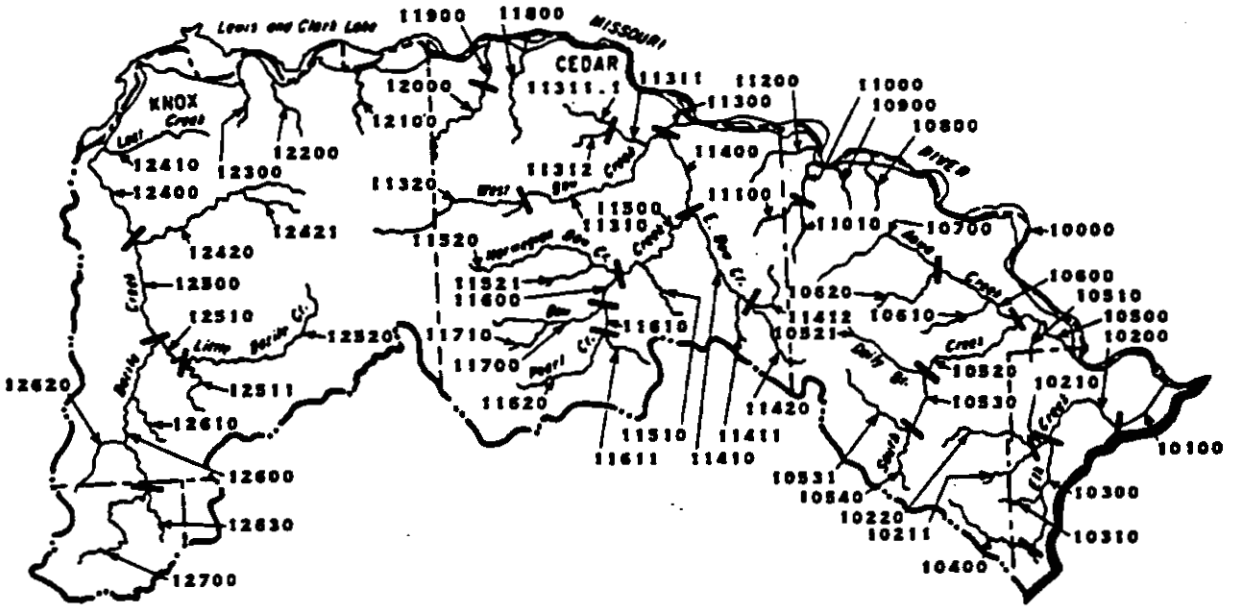
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
West Papillion Creek - Headwaters to North Branch West Papillion Creek	10260				B		A		●		
Ponca Creek	10300				B		A		●		
Deer Creek	10400				B		A		●		
Turkey Creek	10500				B		A		●		
Moores Creek	10600				B		A		●		
Long Creek - Mill Creek to Missouri River	10700				B		A		●		
Mill Creek	10710				B		A		●		
Long Creek - Headwaters to Mill Creek	10800				B		A		●		
Cameron Ditch - Stuart Creek to Missouri River	10900				B		A		●		
Couble Creek	10910				B		A		●		
South Creek	10920				B		A		●		
North Creek	10930				B		A		●		
Stuart Creek	10940				B		A		●		
Cameron Ditch - Headwaters to Stuart Creek	11000				B		A		●		
Hill Creek - Carr Creek to Missouri River	11100				B		A		●		
New York Creek	11110				B		A		●		
Carr Creek	11120				B		A		●		
Davis Creek	11121				B		A		●		
Hill Creek - Headwaters to Carr Creek	11200				B		A		●		
Combination Ditch - Foree Ditch (Sec 3-20N-11E) to Missouri River	11300				B		A		●		
Combination Ditch - Headwaters to Foree Ditch (Sec 3-20N-11E)	11400				B		A		●		
Tekamah Creek - Silver Creek to Missouri River	11500				B		A		●		
Silver Creek	11510				B		A		●		
Tekamah Creek - Headwaters to Silver Creek	11600				B		A		●		
Elm Creek	11700				B		A		●		
Lone Tree Creek	11710				B		A		●		

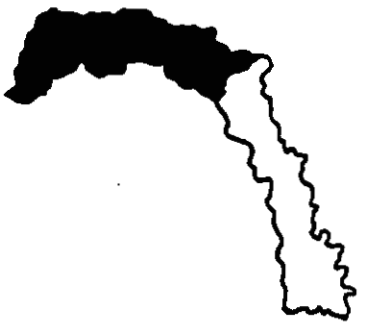
Effective Date: _____

RIVER BASIN: Missouri Tributaries

Subbasin: MT1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Wood Creek	11800				B		A		●		
Blackbird Creek - South Blackbird Creek to Missouri River	11900				A		A		●		
South Blackbird Creek - Unnamed Creek (Sec 15-23N-9E) to Blackbird Creek	11910				B		A		●		
South Blackbird Creek - Headwaters to Unnamed Creek (Sec 15-23N-9E)	11920				B		A		●		
North Blackbird Creek - Unnamed Creek (Sec 26-25N-9E) to Blackbird Creek	11930				B		A		●		
Unnamed Creek (Sec 26-25N-9E)	11931				B		A		●		
North Blackbird Creek - Headwaters to Unnamed Creek (Sec 26-25N-9E)	11940				B		A		●		
Omaha Creek - Sec 12-27N-8E to Missouri River	12000				A		A		●	i	
Omaha Creek - South Omaha Creek to Sec 12-27N-8E	12100				B		A		●		
Fiddlers Creek	12110				B		A		●		
Wigle Creek	12120				B		A		●		
Turtle Creek	12130				B		A		●		
Morgan Creek	12140				B		A		●		
North Omaha Creek - Unnamed Creek (Sec 10-26N-7E) to Omaha Creek	12150				B		A		●		
Unnamed Creek (Sec 14-26N-7E)	12151				B		A		●		
Unnamed Creek (Sec 10-26N-7E)	12152				B		A		●		
North Omaha Creek - Headwaters to Unnamed Creek (Sec 10-26N-7E)	12160				B		A		●		
South Omaha Creek - Cow Creek to Omaha Creek	12170				B		A		●		
Cow Creek	12171				B		A		●		
South Omaha Creek - Headwaters to Cow Creek	12180				B		A		●		
Pigeon Creek - Sec 13-28N-7E to Missouri River	12200				B		A		●		
Pigeon Creek - Headwaters to Sec 13-28N-7E	12300				B		A		●		
Big Sioux River (Iowa)	—										





Subbasin MT2

Effective Date: _____

RIVER BASIN: Missouri Tributaries

Subbasin: MT2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Missouri River - Niobrara River to Big Sioux River	10000	A	●		A	●	A		●	1,2, a,b,i j,v, w	Endangered Species Threatened Species Portion of Segment Designated a Recreational River Under the Federal Wild and Scenic Rivers Act
Elk Creek - Sec 35-29N-7E to Missouri River	10100				A		A		●	i,j	
Elk Creek - Otter Creek to Sec 35-29N-7E	10200				B		A		●		
Otter Creek - Minnow Creek to Elk Creek	10210				B		A		●		
Minnow Creek	10211				B		A		●		
Otter Creek - Headwaters to Minnow Creek	10220				B		A		●		
Elk Creek - Unnamed Creek (Sec 11-27N-6E) to Otter Creek	10300				B		A		●		
Pigeon Creek	10310				B		A		●		
Elk Creek - Headwaters to Unnamed Creek (Sec 11-27N-6E)	10400				B		A		●		
Aowa Creek - South Creek to Missouri River	10500				A		A		●	i	
Badger Creek	10510				B		A		●		
South Creek - Daily Branch to Aowa Creek	10520				A		A		●		
Daily Branch	10521				B		A		●		
South Creek - Jordan Creek to Daily Branch	10530				B		A		●		
Jordan Creek	10531				B		A		●		
South Creek - Headwaters to Jordan Creek	10540				B		A		●		
Aowa Creek - Powder Creek to South Creek	10600				B		A		●		
Silver Creek	10610				B		A		●		
Powder Creek	10620				B		A		●		
Aowa Creek - Headwaters to Powder Creek	10700				B		A		●		
Turkey Creek	10800				B		A		●		
Walnut Creek	10900				B		A		●		
Lime Creek - West Branch Lime Creek to Missouri River	11000				B		A		●		

RIVER BASIN: Missouri Tributaries

Subbasin: MT2

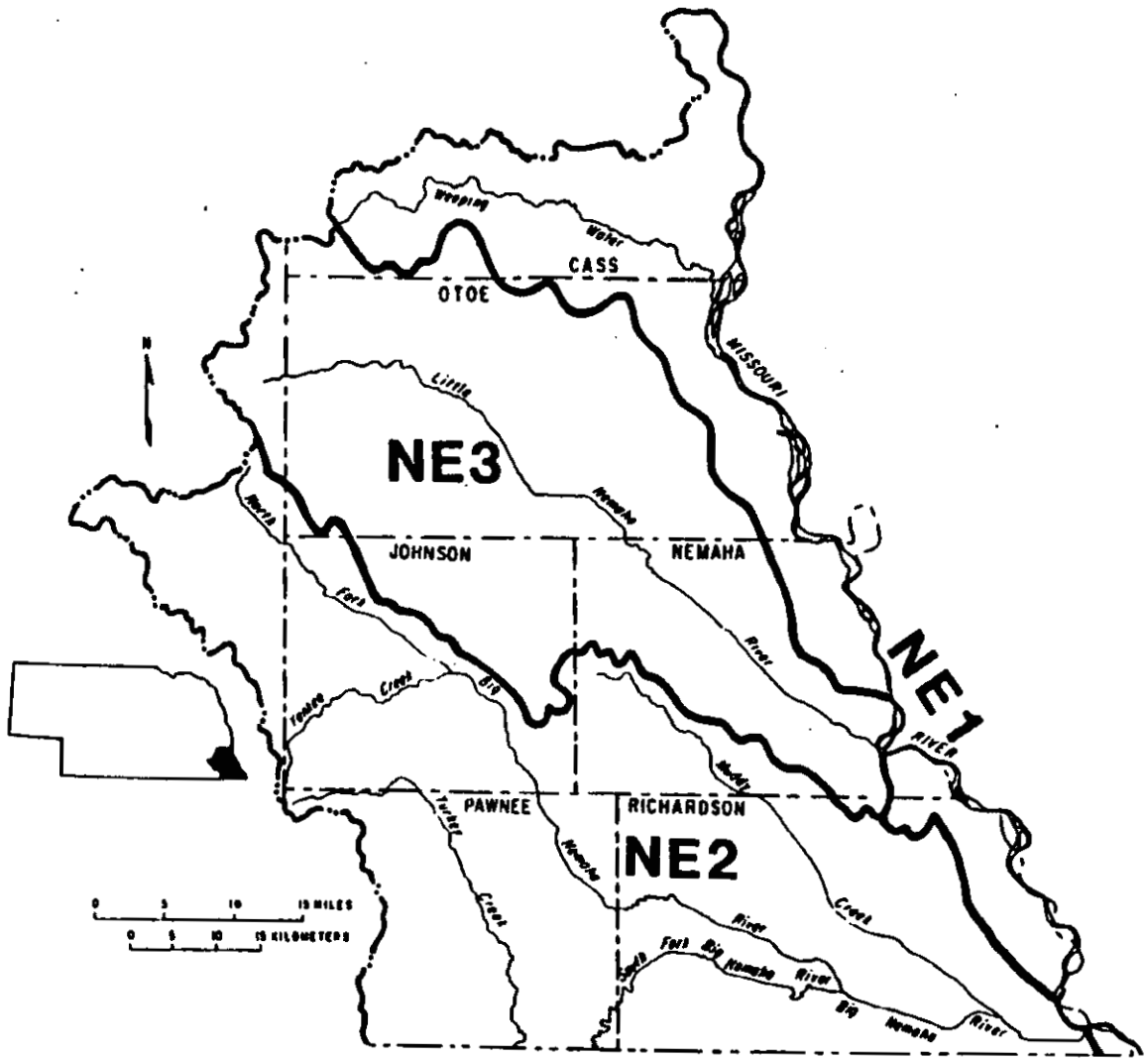
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
West Branch Lime Creek	11010				B		A		●		
Lime Creek - Headwaters to West Branch Lime Creek	11100				B		A		●		
Ames Creek	11200				B		A		●		
Bow Creek - West Bow Creek to Missouri River	11300				A		A		●	i,j,v	
West Bow Creek - Unnamed Creek (Sec 1-31N-1W) to Bow Creek	11310				B		A		●		
Second Bow Creek - Unnamed Creek (Sec 7-32N-2E) to Bow Creek	11311				B		A		●		
Unnamed Creek (Sec 7-32N-2E)	11311.1			B			A		●	8	Sensitive Species
Second Bow Creek - Headwaters to Unnamed Creek (Sec 7-32N-2E)	11312				B		A		●		
West Bow Creek - Headwaters to Unnamed Creek (Sec 1-31N-1W)	11320				B		A		●		
Bow Creek - East Bow Creek to West Bow Creek	11400				A		A		●		
East Bow Creek - Unnamed Creek (Sec 10-30N-3E) to Bow Creek	11410				B		A		●		
Unnamed Creek (Sec 32-31N-3E)	11411				B		A		●		
Unnamed Creek (Sec 10-30N-3E)	11412				B		A		●		
East Bow Creek - Headwaters to Unnamed Creek (Sec 10-30N-3E)	11420				B		A		●		
Bow Creek - Norwegian Bow Creek to East Bow Creek	11500				B		A		●		
Dead Creek	11510				B		A		●		
Norwegian Bow Creek	11520				B		A		●		
Unnamed Creek (Sec 26-31N-1E)	11521				B		A		●		
Bow Creek - Pearl Creek to Norwegian Bow Creek	11600				B		A		●		
Pearl Creek - Kerloo Creek to Bow Creek	11610				B		A		●		
Kerloo Creek	11611				B		A		●		
Pearl Creek - Headwaters to Kerloo Creek	11620				B		A		●		
Bow Creek - Headwaters to Pearl Creek	11700				B		A		●		
Unnamed Creek (Sec 17-30N-1E)	11710				B		A		●		

Effective Date: _____

RIVER BASIN: Missouri Tributaries

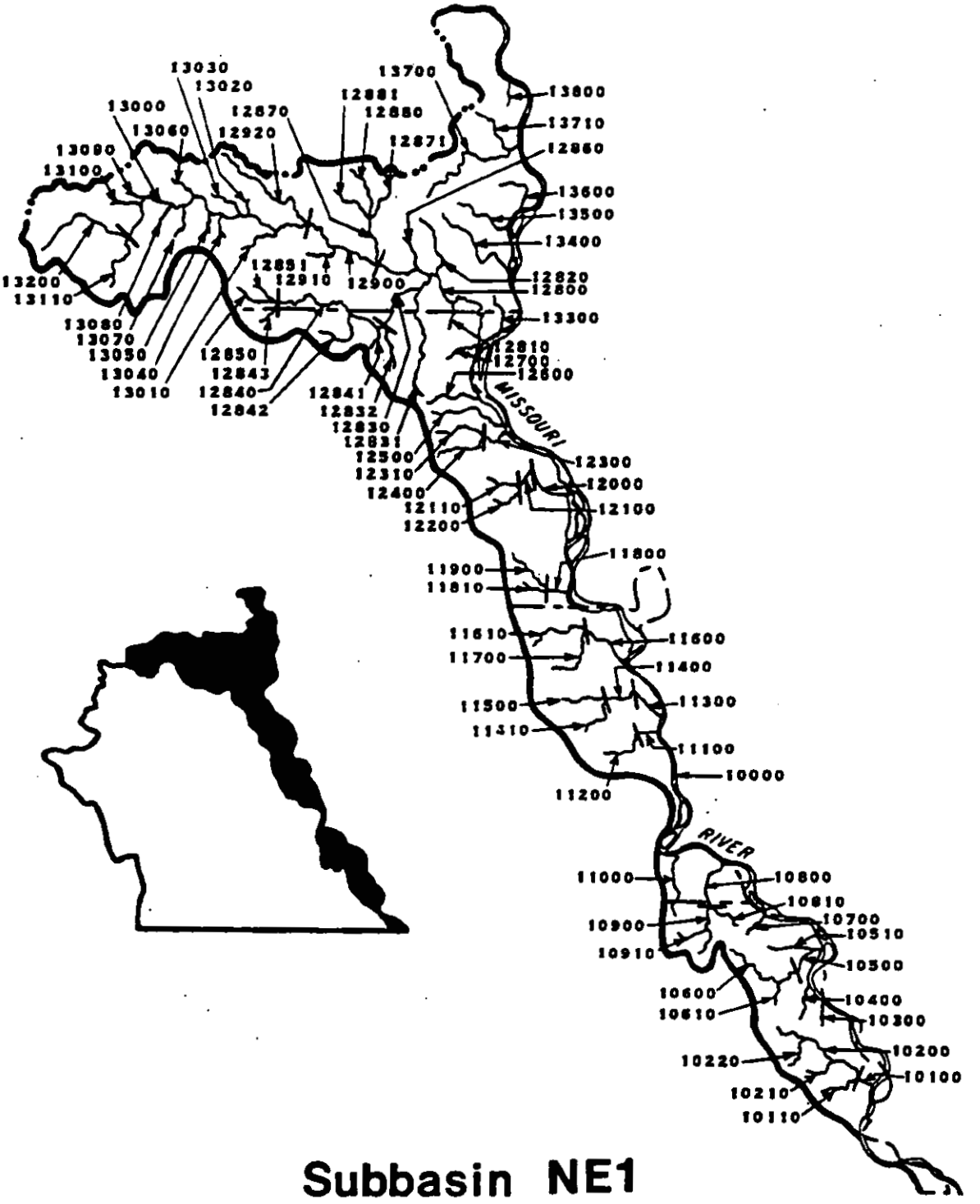
Subbasin: MT2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Antelope Creek	11800				B		A		●		
Beaver Creek - Sec 22-33N-1W to Missouri River	11900				B		A		●		
Beaver Creek - Headwaters to Sec 22-33N-1W	12000				B		A		●		
Weigand Creek - Headwaters to Lewis and Clark Lake	12100				B		A		●		
Devils Nest Creek - Headwaters to Lewis and Clark Lake	12200				B		A		●		
Cook Creek - Headwaters to Lewis and Clark Lake	12300				B		A		●		
Bazile Creek - Howe Creek to Missouri River	12400				A		A		●	i	
Lost Creek	12410				B		A		●		
Howe Creek	12420			B			A		●		
Unnamed Creek (Sec 25-32N-4W)	12421				B		A		●		
Bazile Creek - Little Bazile Creek to Howe Creek	12500				A		A		●	i	
Little Bazile Creek - Unnamed Creek (Sec 30-30N-4W) to Bazile Creek	12510				B		A		●		
Unnamed Creek (Sec 30-30N-4W)	12511				B		A		●		
Little Bazile Creek - Headwaters to Unnamed Creek (Sec 30-30N-4W)	12520				B		A		●		
Bazile Creek - Unnamed Creek (Sec 3-28N-5W) to Little Bazile Creek	12600				B		A		●		
Spring Creek	12610			B			A		●		
Unnamed Creek (Sec 21-29N-5W)	12620				B		A		●		
Unnamed Creek (Sec 3-28N-5W)	12630				B		A		●		
Bazile Creek - Headwaters to Unnamed Creek (Sec 3-28N-5W)	12700				B		A		●		



NEMAHA RIVER BASIN (and Subbasins)

Effective Date: _____



Subbasin NE1

RIVER BASIN: Nemaha

Subbasin: NE1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Missouri River - Platte River to Nebraska- Kansas border (Sec 32-1N-19E)	10000		●		A	●	A	●	●	1,2, b,h,i ,j	Endangered Species Threatened Species
Big Nemaha River (see subbasin NE2)	—										
Winnebago Creek - Bean Creek to Missouri River	10100				B		A		●		
Bean Creek	10110				B		A		●		
Winnebago Creek - Headwaters to Bean Creek	10200				B		A		●		
Unnamed Creek (Sec 24-2N-17E)	10210				B		A		●		
Unnamed Creek (Sec 15-2N-17E)	10220				B		A		●		
Unnamed Creek (Sec 35-3N-17E)	10300				B		A		●		
Unnamed Creek (Sec 26-3N-17E)	10400				B		A		●		
Cottier Creek - Sec 21-3N-17E to Missouri River	10500				B		A		●		
Wine Branch	10510				B		A		●		
Cottier Creek - Headwaters to Sec 21-3N-17E	10600				B		A		●		
Unnamed Creek (Sec 28-3N-17E)	10610				B		A		●		
Unnamed Creek (Sec 5-3N-17E)	10700	A			B		A		●		
Beadow Creek - Unnamed Creek (Sec 2-3N-16E) to Missouri River	10800				B		A		●		
Unnamed Creek (Sec 2-3N-16E)	10810				B		A		●		
Beadow Creek - Headwaters to Unnamed Creek (Sec 2-3N-16E)	10900				B		A		●		
Unnamed Creek (Sec 10-3N-16E)	10910				B		A		●		
Deroin Creek	11000				B		A		●		
Little Nemaha River (see subbasin NE3)	—										
Unnamed Creek (Sec 7-5N-16E) - Sec 12-5N-15E to Missouri River	11100				B		A		●		
Unnamed Creek (Sec 7-5N-16E) - Headwaters to Sec 12-5N-15E	11200				B		A		●		
Honey Creek - Sec 25-6N-15E to Missouri River	11300				B		A		●		
Honey Creek - Unnamed Creek (Sec 34-6N-15E) to Sec 25-6N-15E	11400				B		A		●		

Effective Date: _____

RIVER BASIN: Nemaha

Subbasin: NE1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Unnamed Creek (Sec 34-6N-15E)	11410				B		A		●		
Honey Creek - Headwaters to Unnamed Creek (Sec 34-6N-15E)	11500				B		A		●		
Buck Creek - Duck Creek to Missouri River	11600				B		A		●		
Duck Creek	11610				B		A		●		
Buck Creek - Headwaters to Duck Creek	11700				B		A		●		
Camp Creek - South Branch Camp Creek to Missouri River	11800				B		A		●		
South Branch Camp Creek	11810				B		A		●		
Camp Creek - Headwaters to South Branch Camp Creek	11900				B		A		●		
Fourmile Creek - Sec 23-8N-14E to Missouri River	12000				B		A		●		
Fourmile Creek - Threemile Creek to Sec 23-8N-14E	12100				B		A		●		
Threemile Creek	12110				B		A		●		
Fourmile Creek - Headwaters to Threemile Creek	12200				B		A		●		
South Table Creek - Unnamed Creek (Sec 8-8N-14E) to Missouri River	12300				B		A		●		
Unnamed Creek (Sec 8-8N-14E)	12310				B		A		●		
South Table Creek - Headwaters to Unnamed Creek (Sec 8-8N-14E)	12400				B		A		●		
North Table Creek	12500				B		A		●		
Walnut Creek	12600				B		A		●		
Squaw Creek	12700				B		A		●		
Weeping Water Creek - North Branch Weeping Water Creek to Missouri River	12800				A		A		●	i	
Wolf Creek	12810				B		A		●		
Coal Creek	12820				B		A		●		
South Branch Weeping Water Creek - Goose Creek to Weeping Water Creek	12830				A		A		●	i	
Big Slough	12831				B		A		●		
Goose Creek	12832				B		A		●		

RIVER BASIN: Nemaha

Subbasin: NE1

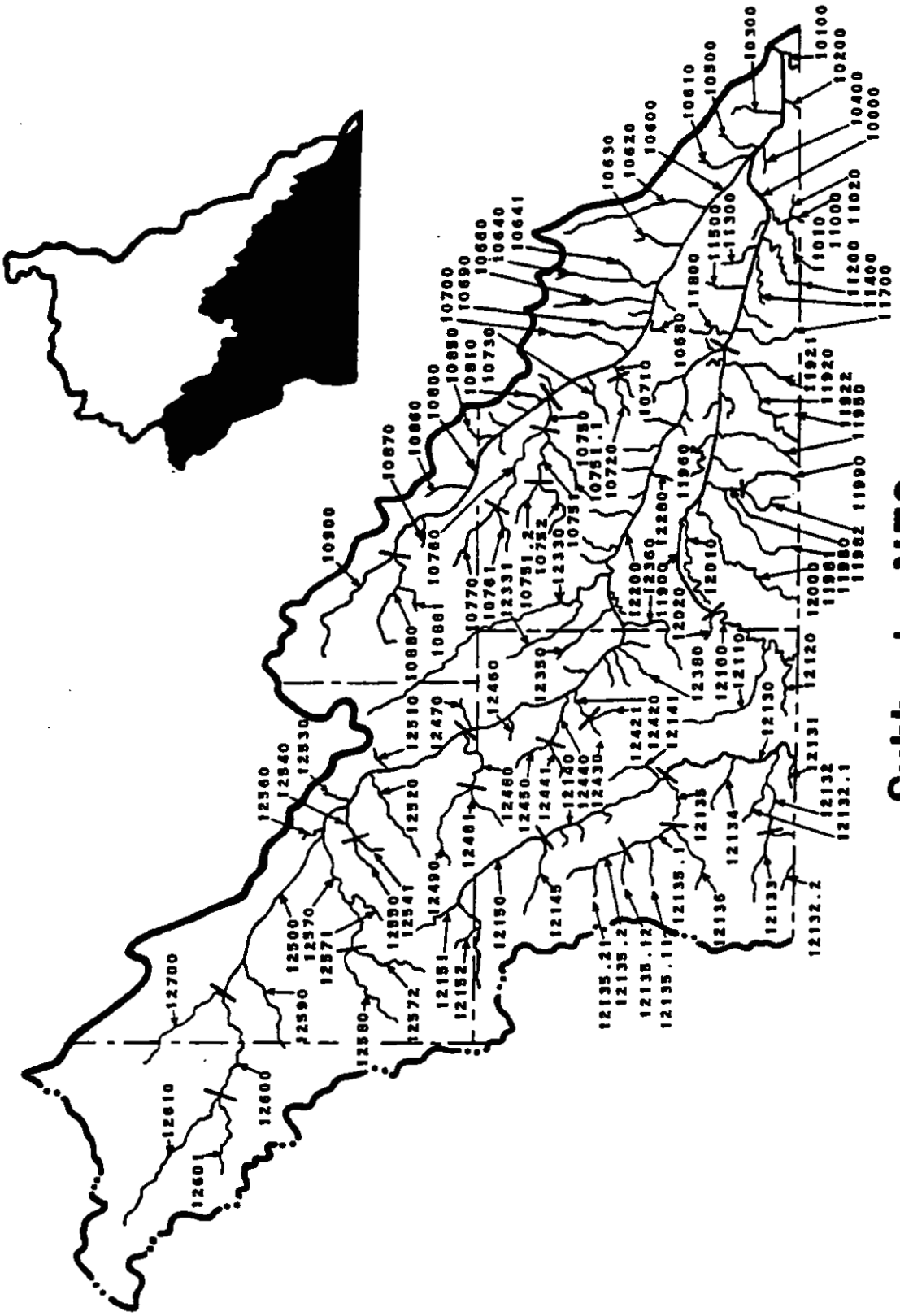
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
South Branch Weeping Water Creek - Wilson Creek to Goose Creek	12840				B		A		●		
Jordan Creek	12841				B		A		●		
Flood Creek	12842				B		A		●		
Wilson Creek	12843				B		A		●		
South Branch Weeping Water Creek - Headwaters to Wilson Creek	12850				B		A		●		
Unnamed Creek (Sec 31-10N-12E)	12851				B		A		●		
Tyson Creek	12860				B		A		●		
North Branch Weeping Water Creek - Unnamed Creek (Sec 6-10N-13E) to Weeping Water Creek	12870				A		A		●	i	
Unnamed Creek (Sec 6-10N-13E)	12871				B		A		●		
North Branch Weeping Water Creek - Headwaters to Unnamed Creek (Sec 6-10N-13E)	12880				B		A		●		
Unnamed Creek (Sec 6-10N-13E)	12881				B		A		●		
Weeping Water Creek - South Cedar Creek to North Branch Weeping Water Creek	12900				B		A		●		
Unnamed Creek (Sec 10-10N-12E)	12910				B		A		●		
South Cedar Creek	12920				B		A		●		
Weeping Water Creek - Stove Creek to South Cedar Creek	13000				B		A		●		
Cascade Creek	13010				B		A		●		
Unnamed Creek (Sec 2-10N-11E)	13020				B		A		●		
Unnamed Creek (Sec 3-10N-11E)	13030				B		A		●		
Unnamed Creek (Sec 4-10N-11E)	13040				B		A		●		
Unnamed Creek (Sec 33-11N-11E)	13050				B		A		●		
Unnamed Creek (Sec 32-11N-11E)	13060				B		A		●		
Unnamed Creek (Sec 31-11N-11E)	13070				B		A		●		
Unnamed Creek (Sec 36-11N-10E)	13080				B		A		●		
Unnamed Creek (Sec 35-11N-10E)	13090				B		A		●		
Beaver Creek	13100				B		A		●		

Effective Date: _____

RIVER BASIN: Nemaha

Subbasin: NE1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Stove Creek	13110				B		A		●		
Weeping Water Creek - Headwaters to Stove Creek	13200				B		A		●		
East Chute	13300				B		A		●		
Ervine Creek	13400				B		A		●		
Rakes Creek	13500				B		A		●		
Unnamed Creek (Sec 33-11N-14E)	13600				B		A		●		
Rock Creek	13700				B		A		●		
Squaw Creek	13710				B		A		●		
Unnamed Creek (Sec 20-12N-14E)	13800				B		A		●		



Subbasin NE2

Effective Date: _____

RIVER BASIN: Nemaha

Subbasin: NE2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Big Nemaha River - Confluence of North and South Fork Big Nemaha Rivers to Missouri River	10000				A		A		●	i,j	
Roys Creek	10100				B		A		●		
Noharts Creek	10200				B		A		●		
Mooney Creek	10300				B		A		●		
Snake Creek	10400				B		A		●		
Canada Creek	10500				B		A		●		
Muddy Creek - Little Muddy Creek to Big Nemaha River	10600				A		A		●	i,j	
Berard Creek	10610				B		A		●		
Halfbreed Creek	10620				B		A		●		
Silver Creek	10630				B		A		●		
Goolsby Branch	10640				B		A		●		
Temple Creek	10641				B		A		●		
Unnamed Creek (Sec 20-2N-16E)	10650				B		A		●		
Mackelroy Creek	10660				B		A		●		
Unnamed Creek (Sec 19-2N-16E)	10670				B		A		●		
Unnamed Creek (Sec 24-2N-15E)	10680				B		A		●		
Unnamed Creek (Sec 24-2N-15E)	10690				B		A		●		
Sardine Creek	10700				B		A		●		
Wolf Creek - Spring Creek to Muddy Creek	10710				B		A		●		
Spring Creek	10711				B		A		●		
Wolf Creek - Headwaters to Spring Creek	10720				B		A		●		
Deer Creek	10730				B		A		●		
Unnamed Creek (Sec 20-3N-15E)	10740				B		A		●		
Little Muddy Creek - Whiskey Run to Muddy Creek	10750				B		A		●		
Whiskey Run - Porter Branch to Little Muddy Creek	10751				B		A		●		
Dry Branch	10751.1				B		A		●		

RIVER BASIN: Nemaha

Subbasin: NE2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Porter Branch	10751.2				B		A		●		
Whiskey Run - Headwaters to Porter Branch	10752				B		A		●		
Little Muddy Creek - Unnamed Creek (Sec 6-3N-14E) to Whiskey Run	10760				B		A		●		
Unnamed Creek (Sec 6-3N-14E)	10761				B		A		●		
Little Muddy Creek - Headwaters to Unnamed Creek (Sec 6-3N-14E)	10770				B		A		●		
Muddy Creek - Unnamed Creek (Sec 11-4N-13E) to Little Muddy Creek	10800				A		A		●	i	
Hoosier Creek	10810				B		A		●		
Unnamed Creek (Sec 18-3N-15E)	10820				B		A		●		
Unnamed Creek (Sec 12-3N-14E)	10830				B		A		●		
Unnamed Creek (Sec 12-3N-14E)	10840				B		A		●		
Unnamed Creek (Sec 1-3N-14E)	10850				B		A		●		
Unnamed Creek (Sec 33-4N-14E)	10860				B		A		●		
Unnamed Creek (Sec 19-4N-14E)	10870				B		A		●		
Unnamed Creek (Sec 11-4N-13E)	10880				B		A		●		
Unnamed Creek (Sec 9-4N-13E)	10881				B		A		●		
Muddy Creek - Headwaters to Unnamed Creek (Sec 11-4N-13E)	10900				B		A		●		
Walnut Creek	11000				A		A		●		
Unnamed Creek (Sec 36-1N-16E)	11010				B		A		●		
Unnamed Creek (Sec 36-1N-16E)	11020				B		A		●		
Unnamed Creek (Sec 25-1N-16E)	11100				B		A		●		
Pony Creek	11200				A		A		●	i	
Unnamed Creek (Sec 22-1N-16E)	11300				B		A		●		
Unnamed Creek (Sec 22-1N-16E)	11400				B		A		●		
Unnamed Creek (Sec 17-1N-16E)	11500				B		A		●		
Unnamed Creek (Sec 18-1N-16E)	11600				B		A		●		
Wildcat Creek	11700				B		A		●		

Effective Date: _____

RIVER BASIN: Nemaha

Subbasin: NE2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Old Channel Big Nemaha River	11800				B		A		●		
South Fork Big Nemaha River - Unnamed Creek (Sec 8-1N-13E) to Big Nemaha River	11900		●		A		A		●	i,j	
Unnamed Creek (Sec 10-1N-15E)	11910				B		A		●		
Rock Creek	11920				A		A		●	i	
Contrary Creek	11921				B		A		●		
Rabbit Creek	11922				B		A		●		
Old Channel South Fork Big Nemaha River	11930				B		A		●		
Unnamed Creek (Sec 7-1N-15E)	11940				B		A		●		
Honey Creek	11950				B		A		●		
Old Channel South Fork Big Nemaha River	11960				B		A		●		
Holy Creek	11970				B		A		●		
Rattlesnake Creek - Spring Creek to South Fork Big Nemaha River	11980				A		A		●	i	
Easly Creek	11981				B		A		●		
Spring Creek	11982				B		A		●		
Rattlesnake Creek - Headwaters to Spring Creek	11990				B		A		●		
Fourmile Creek	12000				A		A		●	i	
Unnamed Creek (Sec 31-2N-14E)	12010				B		A		●		
Unnamed Creek (Sec 8-1N-13E)	12020				B		A		●		
South Fork Big Nemaha River - Nebraska-Kansas border (Sec 35-1N-12E) to Unnamed Creek (Sec 8-1N-13E)	12100		●		A		A		●	i,j	
Lores Branch	12110				A		A		●	i	
Negro Branch	12120				B		A		●		
Turkey Creek - West Branch Turkey Creek to Nebraska-Kansas border (Sec 35-1N-11E)	12130				A		A		●	i	
Unnamed Creek (Sec 35-1N-11E)	12131				B		A		●		
Johnson Creek - Wildcat Creek to Turkey Creek	12132				A		A		●	12	Sensitive Species

RIVER BASIN: Nemaha

Subbasin: NE2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Beebe Creek	12132.1				B		A		●		
Wildcat Creek	12132.2				B		A		●		
Johnson Creek - Headwaters to Wildcat Creek	12133				A		A		●	12	Sensitive Species
Chatawa Creek	12134				B		A		●		
West Branch Turkey Creek - Balls Branch to Turkey Creek	12135				B		A		●		
Balls Branch - Unnamed Creek (Sec 13-2N-10E) to West Branch Turkey Creek	12135.1				B		A		●		
Unnamed Creek (Sec 19-2N-11E)	12135.11				B		A		●		
Unnamed Creek (Sec 13-2N-10E)	12135.12				B		A		●		
Balls Branch - Headwaters to Unnamed Creek (Sec 13-2N-10E)	12135.2				B		A		●		
Unnamed Creek (Sec 2-2N-10E)	12135.21				B		A		●		
West Branch Turkey Creek - Headwaters to Balls Branch	12136				B		A		●		
Turkey Creek - Rock Creek to West Branch Turkey Creek	12140				B		A		●		
Unnamed Creek (Sec 27-2N-11E)	12141				B		A		●		
Unnamed Creek (Sec 8-2N-11E)	12142				B		A		●		
Unnamed Creek (Sec 5-2N-11E)	12143				B		A		●		
Unnamed Creek (Sec 31-3N-11E)	12144				B		A		●		
Rock Creek	12145				B		A		●		
Turkey Creek - Headwaters to Rock Creek	12150				B		A		●		
Sampson Branch	12151				B		A		●		
Unnamed Creek (Sec 6-3N-10E)	12152				B		A		●		
North Fork Big Nemaha River - Todd Creek to Big Nemaha River	12200				A		A		●	ij	
Unnamed Creek (Sec 33-2N-15E)	12210				B		A		●		

Effective Date: _____

RIVER BASIN: Nemaha

Subbasin: NE2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Deer Branch	12220				B		A		●		
Unnamed Creek (Sec 31-2N-15E)	12230				B		A		●		
Unnamed Creek (Sec 25-2N-14E)	12240				B		A		●		
Bradley Branch	12250				B		A		●		
Barneys Branch	12260				B		A		●		
Unnamed Creek (Sec 21-2N-14E)	12270				B		A		●		
Cottonwood Creek	12280				B		A		●		
Unnamed Creek (Sec 20-2N-14E)	12290				B		A		●		
Unnamed Creek (Sec 18-2N-14E)	12300				B		A		●		
Unnamed Creek (Sec 11-2N-13E)	12310				B		A		●		
Unnamed Creek (Sec 10-2N-13E)	12320				B		A		●		
Long Branch Creek	12330		●		A		A		●	i	
Kirkham Creek	12331				B		A		●		
Unnamed Creek (Sec 8-2N-13E)	12340				B		A		●		
Round Grove Creek	12350				B		A		●		
Dry Branch	12360				B		A		●		
Unnamed Creek (Sec 13-2N-12E)	12370				B		A		●		
Unnamed Creek (Sec 13-2N-12E)	12380				B		A		●		
Unnamed Creek (Sec 13-2N-12E)	12390				B		A		●		
Unnamed Creek (Sec 11-2N-12E)	12400				B		A		●		
Unnamed Creek (Sec 3-2N-12E)	12410				B		A		●		
Taylor Branch - Unnamed Creek (Sec 6-2N-12E) to North Fork Big Nemaha River	12420				B		A		●		
Unnamed Creek (Sec 6-2N-12E)	12421				B		A		●		
Taylor Branch - Headwaters to Unnamed Creek (Sec 6-2N-12E)	12430				B		A		●		
Clear Creek - Coopers Branch to North Fork Big Nemaha River	12440				B		A		●		
Coopers Branch	12441				B		A		●		

RIVER BASIN: Nemaha

Subbasin: NE2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Clear Creek - Headwaters to Coopers Branch	12450				B		A		●		
Unnamed Creek (Sec 8-3N-12E)	12460				B		A		●		
Robinson Creek	12470				B		A		●		
Todd Creek - Elk Creek to North Fork Big Nemaha River	12480				B		A		●		
Elk Creek	12481				B		A		●		
Todd Creek - Headwaters to Elk Creek	12490				B		A		●		
North Fork Big Nemaha River - Middle Branch Big Nemaha River to Todd Creek	12500		●		A		A		●	i	
Unnamed Creek (Sec 23-4N-11E)	12510				B		A		●		
Corson Branch	12520				B		A		●		
Town Branch	12530				B		A		●		
Badger Branch - Unnamed Creek (Sec 36-5N-10E) to North Fork Big Nemaha River	12540				B		A		●		
Unnamed Creek (Sec 36-5N-10E)	12541				B		A		●		
Badger Branch - Headwaters to Unnamed Creek (Sec 36-5N-10E)	12550				B		A		●		
Unnamed Creek (Sec 19-5N-11E)	12560				B		A		●		
Yankee Creek - Lost Branch to North Fork Big Nemaha River	12570				B		A		●		
Brewers Branch	12571				B		A		●		
Lost Branch	12572				B		A		●		
Yankee Creek - Headwaters to Lost Branch	12580				B		A		●		
Hooker Creek	12590				B		A		●		
Middle Branch Big Nemaha River - Shaw Creek to North Fork Big Nemaha River	12600				B		A		●	i	
Shaw Creek	12601				A		A		●	10	Sensitive Species
Middle Branch Big Nemaha River - Headwaters to Shaw Creek	12610				B		A		●		
North Fork Big Nemaha River - Headwaters to Middle Branch Big Nemaha River	12700				B		A		●		

Effective Date: _____

Subbasin NE3

RIVER BASIN: Nemaha

Subbasin: NE3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Little Nemaha River - North Fork Little Nemaha River to Missouri River	10000				A		A		●	i,j	
Whiskey Run	10100				A		A		●	10	Sensitive Species
Jarvis Creek - Unnamed Creek (Sec 22-4N-15E) to Little Nemaha River	10200				B		A		●		
Unnamed Creek (Sec 22-4N-15E)	10210				B		A		●		
Unnamed Creek (Sec 22-4N-15E)	10220				B		A		●		
Jarvis Creek - Headwaters to Unnamed Creek (Sec 22-4N-15E)	10300				B		A		●		
Happy Hollow Creek	10400				B		A		●		
Swartz Run - Unnamed Creek (Sec 21-5N-15E) to Little Nemaha River	10500				B		A		●		
Unnamed Creek (Sec 21-5N-15E)	10510				B		A		●		
Swartz Run - Headwaters to Unnamed Creek (Sec 21-5N-15E)	10600				B		A		●		
Indian Creek - Sec 5-4N-15E to Little Nemaha River	10700				B		A		●		
Indian Creek - Headwaters to Sec 5-4N-15E	10800				A		A		●	10	Sensitive Species
Unnamed Creek (Sec 30-5N-15E)	10900				B		A		●		
Hughes Creek	11000				A		A		●	10	Sensitive Species
Codington Creek	11100				B		A		●		
Unnamed Creek (Sec 24-5N-14E)	11200				B		A		●		
Unnamed Creek (Sec 23-5N-14E)	11300				B		A		●		
Longs Creek - Scotch Branch to Little Nemaha River	11400				A		A		●	10	Sensitive Species
Scotch Branch	11410				B		A		●		
Longs Creek - Headwaters to Scotch Branch	11500				A		A		●	10	Sensitive Species
Willow Creek	11600				B		A		●		
Ord Creek	11700				B		A		●		
Rock Creek - Unnamed Creek (Sec 17-6N-14E) to Little Nemaha River	11800				A		A		●	10,i	Sensitive Species
Plum Run	11810				B		A		●		
Unnamed Creek (Sec 17-6N-14E)	11820				B		A		●		

Effective Date: _____

RIVER BASIN: Nemaha

Subbasin: NE3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Rock Creek - Unnamed Creek (Sec 19-7N-14E) to Unnamed Creek (Sec 17-6N-14E)	11900				A		A		●	10	Sensitive Species
Unnamed Creek (Sec 32-7N-14E)	11910				B		A		●		
Unnamed Creek (Sec 29-7N-14E)	11920				B		A		●		
Unnamed Creek (Sec 19-7N-14E)	11930				B		A		●		
Rock Creek - Headwaters to Unnamed Creek (Sec 19-7N-14E)	12000				A		A		●	10	Sensitive Species
Unnamed Creek (Sec 30-6N-14E)	12100				B		A		●		
Unnamed Creek (Sec 23-6N-13E) - Unnamed Creek (Sec 26-6N-13E) to Little Nemaha River	12200				B		A		●		
Unnamed Creek (Sec 26-6N-13E)	12210				B		A		●		
Unnamed Creek (Sec 23-6N-13E) - Headwaters to Unnamed Creek (Sec 26-6N-13E)	12300				B		A		●		
Houchen Creek	12400				B		A		●		
Unnamed Creek (Sec 9-6N-13E)	12500				B		A		●		
Piper Creek	12600				B		A		●		
Sand Creek - Unnamed Creek (Sec 29-7N-13E) to Little Nemaha River	12700				B		A		●		
Unnamed Creek (Sec 29-7N-13E)	12710				B		A		●		
Sand Creek - Headwaters to Unnamed Creek (Sec 29-7N-13E)	12800				B		A		●		
Jones Creek - East Branch Jones Creek to Little Nemaha River	12900				B		A		●		
East Branch Jones Creek	12910				B		A		●		
Jones Creek - Headwaters to East Branch Jones Creek	13000				B		A		●		
North Fork Little Nemaha River - Deer Creek to Little Nemaha River	13100				A		A		●	i	
Unnamed Creek (Sec 13-7N-12E)	13110				B		A		●		
Unnamed Creek (Sec 1-7N-12E)	13120				B		A		●		
Fox Creek	13130				B		A		●		
Wilson Creek	13140				B		A		●		

RIVER BASIN: Nemaha

Subbasin: NE3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Deer Creek	13150				B		A		●	i	
North Fork Little Nemaha River - Unnamed Creek (Sec 15-9N-11E) to Deer Creek	13200				B		A		●		
Unnamed Creek (Sec 19-9N-12E)	13210				B		A		●		
Unnamed Creek (Sec 15-9N-11E)	13220				B		A		●		
North Fork Little Nemaha River - Headwaters to Unnamed Creek (Sec 15-9N-11E)	13300				B		A		●		
Little Nemaha River - South Fork Little Nemaha River to North Fork Little Nemaha River	20000				A		A		●	i	
Spring Creek - Manns Branch to Little Nemaha River	20100				B		A		●		
Ayres Creek	20110				B		A		●		
Manns Branch	20120				B		A		●		
Spring Branch - Headwaters to Manns Branch	20200				B		A		●		
South Fork Little Nemaha River - Turkey Creek to Little Nemaha River	20300				A		A		●	i	
Coon Creek	20310				B		A		●		
Unnamed Creek (Sec 9-6N-11E)	20320				B		A		●		
Turkey Creek	20330				B		A		●		
South Fork Little Nemaha River - Saunders Creek to Turkey Creek	20400				A		A		●	10	Sensitive Species
Silver Creek	20410				A		A		●	10	Sensitive Species
Saunders Creek	20420				B		A		●		
Unnamed Creek (Sec 5-6N-10E)	20421				B		A		●		
Saunders Creek - Headwaters to Unnamed Creek (Sec 5-6N-10E)	20430				B		A		●		
South Fork Little Nemaha River - Headwaters to Saunders Creek	20500				A		A		●	10	Sensitive Species
Unnamed Creek (Sec 19-7N-10E)	20510				B		A		●		
Unnamed Creek (Sec 19-7N-10E)	20520				B		A		●		
Little Nemaha River - Hooper Creek to South Fork Little Nemaha River	30000				A		A		●	i	
Unnamed Creek (Sec 18-7N-12E)	30100				B		A		●		

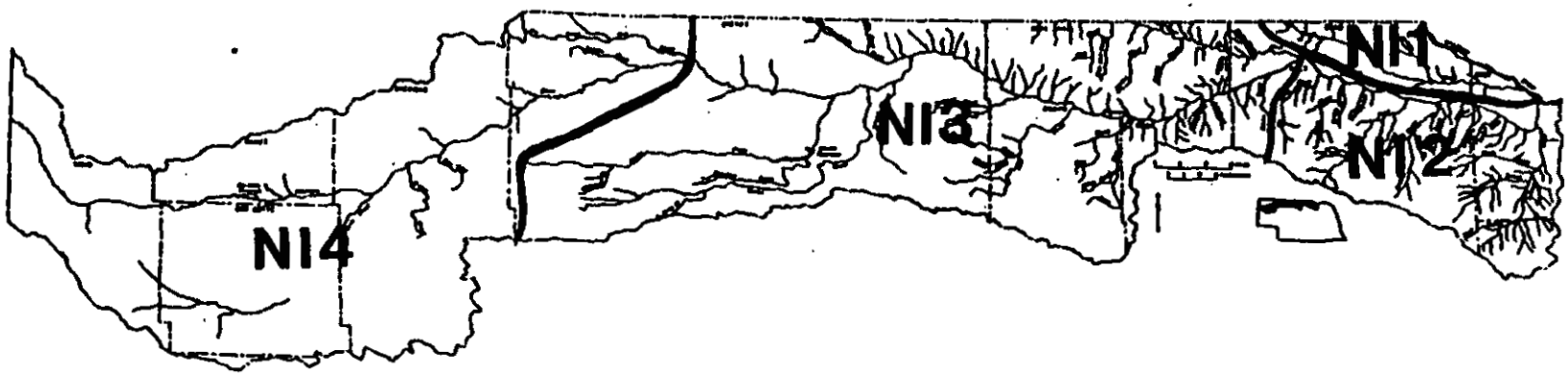
Effective Date: _____

RIVER BASIN: Nemaha

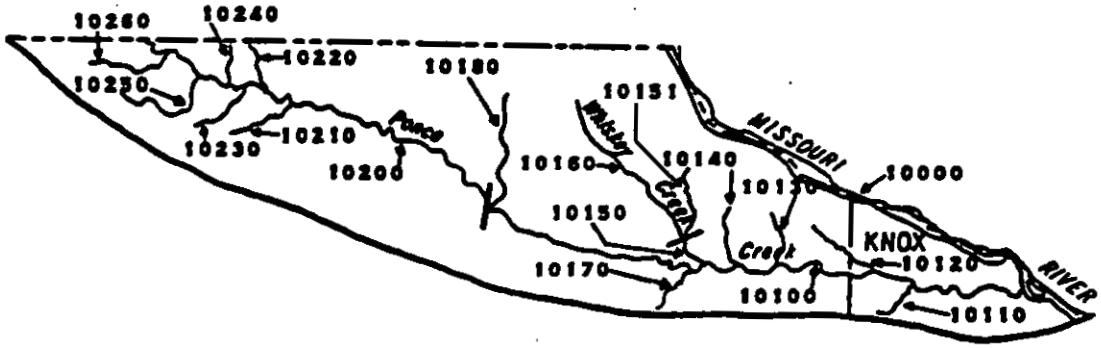
Subbasin: NE3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Muddy Creek	30200				B		A		●		
Little Muddy Creek	30210				B		A		●		
Brownell Creek - Unnamed Creek (Sec 23-8N-11E) to Little Nemaha River	30300				B		A		●		
Unnamed Creek (Sec 23-8N-11E)	30310				B		A		●		
Brownell Creek - Headwaters to Unnamed Creek (Sec 23-8N-11E)	30400				B		A		●		
Boxelder Creek	30500				B		A		●		
Unnamed Creek (Sec 27-8N-11E)	30600				B		A		●		
Ziegler Creek	30700				B		A		●		
Wolf Creek - Owl Creek to Little Nemaha River	30800				B		A		●		
Owl Creek	30810				B		A		●		
Wolf Creek - Headwaters to Owl Creek	30900				B		A		●		
Unnamed Creek (Sec 26-9N-10E)	30910				B		A		●		
Russell Creek	31000				B		A		●		
Henry Creek	31100				B		A		●		
Hooper Creek - Unnamed Creek (Sec 11-9N-9E) to Little Nemaha River	31200				A		A		●	i	
Unnamed Creek (Sec 30-9N-10E)	31210				B		A		●		
Unnamed Creek (Sec 13-9N-9E)	31220				B		A		●		
Unnamed Creek (Sec 11-9N-9E)	31230				B		A		●		
Hooper Creek - Headwaters to Unnamed Creek (Sec 11-9N-9E)	31300				B		A		●		
Unnamed Creek (Sec 9-9N-9E)	31310				B		A		●		
Unnamed Creek (Sec 8-9N-9E)	31320				B		A		●		
Little Nemaha River - Silver Creek to Hooper Creek	40000				A		A		●	i	
Silver Creek	40100				B		A		●		
Little Nemaha River - Headwaters to Silver Creek	50000				B		A		●		
Unnamed Creek (Sec 5-8N-9E)	50100				B		A		●		
Unnamed Creek (Sec 6-8N-9E)	50200				B		A		●		
Unnamed Creek (Sec 10-8N-8E)	50300				B		A		●		

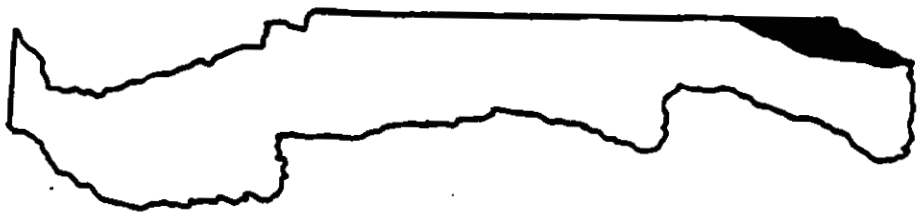
Effective Date: _____



NIOBRARA RIVER BASIN (and Subbasins)



Subbasin NI1

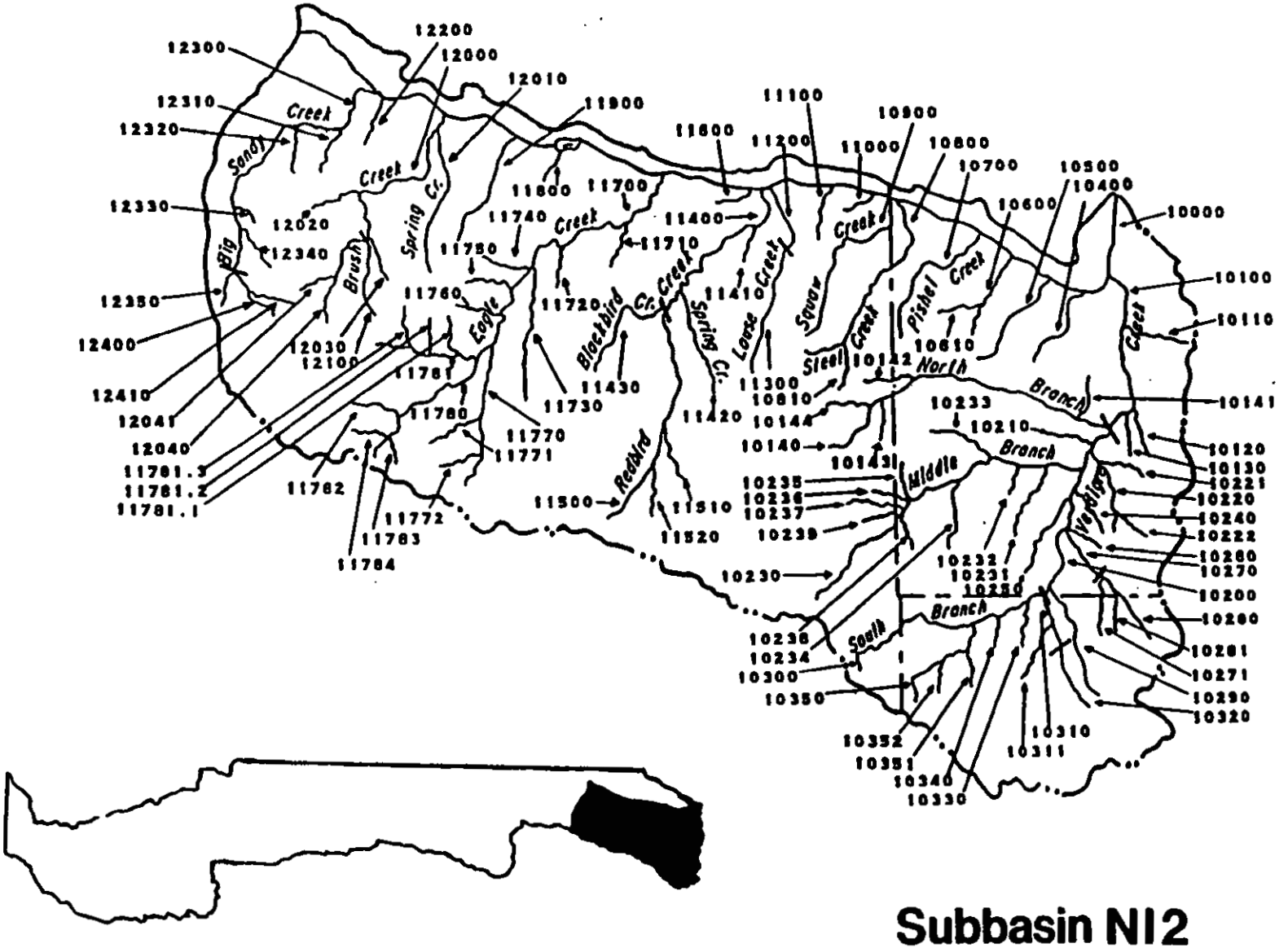


RIVER BASIN: Niobrara

Subbasin: *NI1*

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Missouri River - Nebraska-South Dakota border (Sec 21-35N-10W) to Niobrara River	10000	A	●		A		A		●	a,b,f i,j,m n,o, s,t,v w	
Ponca Creek - Beaver Creek (Sec 1-33N-12W) to Missouri River	10100				A		A		●	i	
Unnamed Creek (Sec 21-33N-8W)	10110				B		A		●		
Unnamed Creek (Sec 19-33N-8W)	10120				B		A		●		
Unnamed Creek (Sec 16-33N-9W)	10130				B		A		●		
Unnamed Creek (Sec 20-33N-9W)	10140				B		A		●		
Whiskey Creek - Silver Creek to Ponca Creek	10150				B		A		●		
Silver Creek	10151				B		A		●		
Whiskey Creek - Headwaters to Silver Creek	10160				B		A		●		
Unnamed Creek (Sec 22-33N-10W)	10170				B		A		●		
Beaver Creek (Sec 1-33N-12W)	10180				A		A		●		
Ponca Creek - Nebraska-South Dakota border (Sec 23-35N-15W) to Beaver Creek	10200				A		A		●		
Unnamed Creek (Sec 1-34N-14W)	10210				B		A		●		
Unnamed Creek (Sec 35-35N-14W)	10220				B		A		●		
Unnamed Creek (Sec 33-35N-14W)	10230				A		A		●	9,10	Sensitive Species
Unnamed Creek (Sec 32-25N-14W)	10240				B		A		●		
Unnamed Creek (Sec 29-35N-14W)	10250				B		A		●		
Unnamed Creek (Sec 24-35N-15W)	10260				B		A		●		

Effective Date: _____



Subbasin NI2

RIVER BASIN: Niobrara

Subbasin: NI2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Niobrara River - Keya Paha River to Missouri River	10000	A*	●		A		A	●	●	i,n,r,s,t,v	
Verdigre Creek - North Branch Verdigre Creek to Niobrara River	10100	A**			A		A		●		
Unnamed Creek (Sec 29-31N-6W)	10110				B		A		●		
Unnamed Creek (Sec 9-30N-6W)	10120				B		A		●		
Unnamed Creek (Sec 8-30N-6W)	10130				B		A		●		
North Branch Verdigre Creek	10140			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 11-30N-7W)	10141				B		A		●		
Unnamed Creek (Sec 31-31N-8W)	10142				B		A		●		
Unnamed Creek (Sec 1-30N-9W)	10143				B		A		●		
Unnamed Creek (Sec 11-30N-9W)	10144				B		A		●		
Verdigre Creek - Confluence of South Branch and East Branch Verdigre Creeks (Sec 33-29N-7W) to North Branch Verdigre Creek	10200				B		A		●		
Unnamed Creek (Sec 24-30N-7W)	10210				B		A		●		
Unnamed Creek (Sec 24-30N-7W)	10220			B			A		●		
Unnamed Creek (Sec 30-30N-6W)	10221				B		A		●		
Unnamed Creek (Sec 31-30N-6W)	10222				B		A		●		
Middle Branch Verdigre Creek	10230			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 29-30N-7W)	10231				B		A		●		
Unnamed Creek (Sec 26-30N-8W)	10232				B		A		●		
Unnamed Creek (Sec 26-30N-8W)	10233				B		A		●		
Unnamed Creek (Sec 35-30N-8W)	10234				B		A		●		
Unnamed Creek (Sec 32-30N-8W)	10235				B		A		●		
Lamb Creek	10236				B		A		●		
Unnamed Creek (Sec 6-29N-8W)	10237			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 6-29N-8W)	10238				B		A		●		

*State Resource Water designation applies from the Western Knox County line (Sec 7,T32N,R8W) to its mouth at the Missouri River.

**State Resource Water designation applies from the north boundary of the town of Verdigre (Sec 5,T30N,R6W) to its mouth at the Niobrara River.

Effective Date: _____

RIVER BASIN: Niobrara

Subbasin: NI2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Unnamed Creek (Sec 7-29N-8W)	10239			B			A		●		
Unnamed Creek (Sec 35-30N-7W)	10240				B		A		●		
Unnamed Creek (Sec 2-29N-7W)	10250				B		A		●		
Unnamed Creek (Sec 11-29N-7W)	10260				B		A		●		
Merriman Creek - Unnamed Creek (Sec 25-28N-7W) to Verdigre Creek	10270			B			A		●	12,n	Sensitive Species
Unnamed Creek (Sec 25-28N-7W)	10271			B			A		●		
Merriman Creek - Headwaters to Unnamed Creek (Sec 25-28N-7W)	10280			B			A		●	12,n	Sensitive Species
Unnamed Creek (Sec 31-29N-6W)	10281				B		A		●		
Cottonwood Creek	10290				B		A		●		
South Branch Verdigre Creek - Headwaters to East Branch Verdigre Creek (Sec 33-29N-7W)	10300			B			A		●	12	Sensitive Species
East Branch Verdigre Creek - Grove Lake Dam (Sec 22-28N-7W) to South Branch Verdigre Creek (Sec 33-29N-7W)	10310			B			A		●	n,r	
Hay Creek	10311				B		A		●		
East Branch Verdigre Creek - Headwaters to Grove Lake Dam (Sec 22-28N-7W)	10320			A			A		●	e,n, r	
Unnamed Creek (Sec 6-28N-7W)	10330				B		A		●		
Unnamed Creek (Sec 12-28N-8W)	10340				B		A		●		
Big Springs Creek	10350			B			A		●	12	Sensitive Species
Hathoway Slough	10351				B		A		●		
Unnamed Creek (Sec 22-28N-8W)	10352				B		A		●		
Schindler Creek	10400			B			A		●	13	Sensitive Species
Unnamed Creek (Sec 3-31N-7W)	10500				B		A		●		
Soldier Creek	10600				B		A		●		
Unnamed Creek (Sec 12-31N-8W)	10610				B		A		●		
Pishel Creek	10700			B			A		●		
Steel Creek	10800			A			A		●	n,r	
Long Gulch	10810			B			A		●		

Effective Date: _____

RIVER BASIN: Niobrara

Subbasin: *NI2*

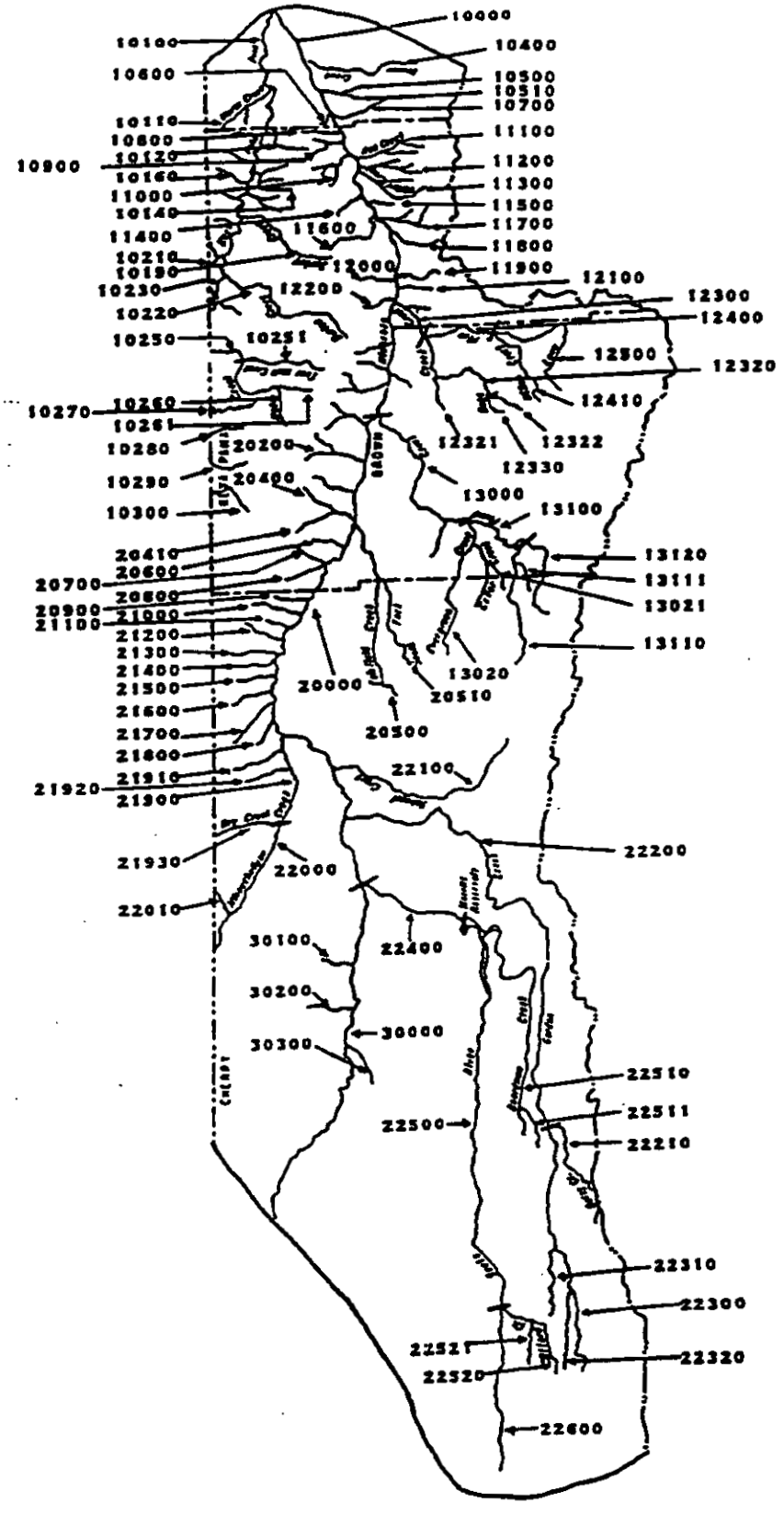
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Squaw Creek	10900			B			A		●		
Unnamed Creek (Sec 10-32N-9W)	11000			B			A		●		
Sand Creek	11100			B			A		●		
Louse Creek - Sec 36-32N-10W to Niobrara River	11200			A			A		●	12,d e,i,r	Sensitive Species
Louse Creek - Headwaters to Sec 36-32N-10W	11300			A			A		●	12,d ,e	Sensitive Species
Redbird Creek - Blackbird Creek to Niobrara River	11400			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 14-32N-10W)	11410				B		A		●		
Spring Creek	11420			B			A		●	9,12	Sensitive Species
Blackbird Creek	11430				B		A		●		
Redbird Creek - Headwaters to Blackbird Creek	11500			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 12-30N-11W)	11510			B			A		●		
Unnamed Creek (Sec 23-30N-11W)	11520			B			A		●		
Unnamed Creek (Sec 11-32N-10W)	11600			B			A		●		
Eagle Creek	11700			B			A		●	i	
Camp Creek	11710			B			A		●	3,12	Threatened Species Sensitive Species
Unnamed Creek (Sec 26-32N-10W)	11720			B			A		●		
Honey Creek	11730				B		A		●		
Unnamed Creek (Sec 33-32N-12W)	11740			B			A		●		
Oak Creek	11750			A			A		●	d	
Unnamed Creek (Sec 17-31N-12W)	11760			B			A		●		
East Branch Eagle Creek	11770			B			A		●		
Unnamed Creek (Sec 7-30N-12W)	11771			B			A		●		
Unnamed Creek (Sec 20-30N-12W)	11772			B			A		●		
Middle Branch Eagle Creek	11780			B			A		●	12,i	Sensitive Species
North Branch Eagle Creek	11781			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 25-31N-13W)	11781.1			B			A		●		

Effective Date: _____

RIVER BASIN: Niobrara

Subbasin: NI2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Unnamed Creek (Sec 26-31N-13W)	11781.2			B			A		●		
Unnamed Creek (Sec 27-31N-13W)	11781.3			B			A		●		
Unnamed Creek (Sec 8-30N-13W)	11782			B			A		●		
Unnamed Creek (Sec 8-30N-13W)	11783			B			A		●		
Unnamed Creek (Sec 7-30N-13W)	11784			B			A		●		
Unnamed Creek (Sec 25-33N-12W)	11800				B		A		●		
Turkey Creek	11900			B			A		●		
Brush Creek - Unnamed Creek (Sec 24-32N-14W) to Niobrara River	12000			B			A		●	12,n	Sensitive Species
Spring Creek	12010			B			A		●		
Unnamed Creek (Sec 11-32N-14W)	12020			B			A		●		
Unnamed Creek (Sec 24-32N-14W)	12030			B			A		●		
Unnamed Creek (Sec 24-32N-14W)	12040			B			A		●		
Unnamed Creek (Sec 33-32N-14W)	12041			B			A		●		
Brush Creek - Headwaters to Unnamed Creek (Sec 24-32N-14W)	12100			B			A		●	12,n	Sensitive Species
Little Sandy Creek	12200			B			A		●	d	
Big Sandy Creek - Spring Creek to Niobrara River	12300				B		A		●		
Unnamed Creek (Sec 23-33N-14W)	12310			B			A		●		
Unnamed Creek (Sec 21-33N-14W)	12320			B			A		●		
Unnamed Creek (Sec 22-32N-15W)	12330				B		A		●		
Unnamed Creek (Sec 27-32N-15W)	12340				B		A		●		
Spring Creek	12350			B			A		●	9	Sensitive Species
Big Sandy Creek - Headwaters to Spring Creek	12400			B			A		●		
Unnamed Creek (Sec 3-31N-15W)	12410			B			A		●		



Subbasin NI3

Effective Date: _____

RIVER BASIN: Niobrara

Subbasin: NI3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Niobrara River - Plum Creek to Keya Paha River	10000	A*	●		A		A		●	i,m, n,r	
Keya Paha River - Nebraska-South Dakota border (Sec 23-35N-20W) to Niobrara River	10100				A		A		●	i,n	
Morse Creek	10110			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 9-34N-16W)	10111			B			A		●		
Big Creek	10120			B			A		●		
Meglin Creek	10130			B			A		●		
Oak Creek	10140			B			A		●		
Unnamed Creek (Sec 25-34N-17W)	10141			B			A		●		
Unnamed Creek (Sec 26-34N-17W)	10142			B			A		●		
Alkali Creek	10150				B		A		●		
Spotted Tail Creek	10160			B			A		●	12	Sensitive Species
Coon Creek	10170			B			A		●		
Unnamed Creek (Sec 17-34N-17W)	10171				B		A		●		
Wolf Creek	10180			B			A		●		
Spring Creek	10190			B			A		●		
Dry Creek	10200				B		A		●		
Buffalo Creek - Nebraska-South Dakota border (Sec 22-35N-19W) to Keya Paha River	10210				B		A		●		
Unnamed Creek - Nebraska-South Dakota border to Buffalo Creek (Sec 26-35N-19W)	10211				B		A		●		
Burton Creek	10220			B			A		●		
Lute Creek - Nebraska-South Dakota border (Sec 20-35N-19W) to Keya Paha River	10230				B		A		●		
Jordan Creek	10240				B		A		●		
Holt Creek - East Branch Holt Creek to Nebraska-South Dakota border (Sec 19-35N-20W)	10250			B			A		●	3,4, 5,6, 9,12 15, 16	Threatened Species Sensitive Species

*State Resource Water designation applies from Rock Creek (NI3-12900) (Sec 12, T32N, R22W) to the State Hwy. 137 bridge (Sec 5, T32N, R17W).

RIVER BASIN: Niobrara

Subbasin: NI3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
East Branch Holt Creek	10251			B			A		●	3,4	Threatened Species
Holt Creek - Headwaters to East Branch Holt Creek	10260			B			A		●	3,4, 5,6	Threatened Species
Unnamed Creek (Sec 21-34N-21W)	10261			B			A		●	3,4	Threatened Species
Timber Creek - Headwaters to Nebraska-South Dakota border (Sec 19-35N-21W)	10270			B			A		●	3,4	Threatened Species
Cottonwood Creek - Headwaters to Nebraska-South Dakota border (Sec 21-35N-22W)	10280				A		A		●	3,4, 5	Threatened Species
Lost Creek - Headwaters to Nebraska-South Dakota border (Sec 22-35N-23W)	10290				A		A		●	3,4, n	Threatened Species
Shadley Creek - Headwaters to Nebraska-South Dakota border (Sec 23-35N-24W)	10300			B			A		●	3,4	Threatened Species
Beaver Creek	10400			B			A		●	13,n	Sensitive Species
Clay Creek	10500			B			A		●		
West Branch Clay Creek	10510			B			A		●		
Unnamed Creek (Sec 20-33N-16W)	10600				B		A		●		
Otter Creek	10700			B			A		●		
Unnamed Creek (Sec 25-33N-17W)	10800			B			A		●		
Simpson Creek	10900			B			A		●		
Unnamed Creek (Sec 22-33N-17W)	10910			B			A		●		
Big Anne Creek	11000			B			A		●		
Haughin Creek	11010			B			A		●		
Unnamed Creek (Sec 29-33N-17W)	11011			B			A		●		
Ash Creek	11100			B			A		●	d	
Unnamed Creek (Sec 8-32N-17W)	11110				B		A		●		
Unnamed Creek (Sec 3-31N-17W)	11120				B		A		●		
Oak Creek	11200			B			A		●	d,e	
Unnamed Creek (Sec 18-32N-17W)	11210			B			A		●		
Unnamed Creek (Sec 12-32N-18W)	11220			B			A		●		
Willow Creek	11300			B			A		●	3, 12	Threatened Species Sensitive Species

Effective Date: _____

RIVER BASIN: Niobrara

Subbasin: NI3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Sand Creek	11310			B			A		●		
Unnamed Creek (Sec 3-32N-18W)	11400			B			A		●		
Rock Creek	11500			B			A		●	12	Sensitive Species
Unnamed Creek (Sec 18-32N-18W)	11600			B			A		●		
West Branch Laughing Water Creek	11700			B			A		●		
East Branch Laughing Water Creek	11710			B			A		●		
Middle Branch Laughing Water Creek	11720			B			A		●		
Coon Creek	11800			B			A		●	d,e	
Elk Creek	11900			B			A		●		
Wyman Creek	12000			B			A		●		
Sand Creek	12100			A			A		●	d	
Thomas Creek	12200			B			A		●		
Long Pine Creek - Bone Creek to Niobrara River	12300		●	B			A		●	d,e,i	
Short Pine Creek	12310			A			A		●	12, c,d	Sensitive Species
Bone Creek - Unnamed Creek (Sec 23-30N-22W) to Long Pine Creek	12320			B			A		●	8	Sensitive Species
Sand Draw	12321			B			A		●	3,4, 5,r	Threatened Species
Unnamed Creek (Sec 23-30N-22W)	12322			B			A		●		
Bone Creek - Headwaters to Unnamed Creek (Sec 23-30N-22W)	12330			B			A		●	3,4, 5,8, 10	Threatened Species Sensitive Species
Long Pine Creek - Willow Creek to Bone Creek	12400	B	●	A			A		●	6,8, d,e	Threatened Species Sensitive Species
Willow Creek	12410			B			A		●		
Long Pine Creek - Headwaters to Willow Creek	12500	B		A			A		●	8, d,e	Sensitive Species
Prosser Creek	12600			B			A		●		
Jewett Creek	12700			B			A		●		
Dutch Creek	12800			B			A		●		
Rock Creek	12900				B		A		●		

RIVER BASIN: Niobrara

Subbasin: NI3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Unnamed Creek (Sec 1-32N-22W)	12910				B		A		●		
Plum Creek - Evergreen Creek to Niobrara River	13000		●	B			A		●		
Little Minnie Creek	13010			B			A		●		
Evergreen Creek	13020			B			A		●	13, 15	Sensitive Species
Cedar Creek	13021			B			A		●		
Dry Creek	13021.1			B			A		●		
Plum Creek - Confluence of North and South Branch Plum Creeks to Evergreen Creek	13100		●	A			A		●	13,d e,r	Sensitive Species
North Branch Plum Creek	13110			B			A		●		
Brush Creek	13111			B			A		●		
South Branch Plum Creek	13120			B			A		●		
Niobrara River - Snake River to Plum Creek	20000	A*	●		A		A		●	i,n	
Cub Creek	20100			B			A		●		
Unnamed Creek (Sec 28-33N-22W)	20110			B			A		●		
Chimney Creek	20200			B			A		●		
Unnamed Creek (Sec 32-33N-22W)	20210			B			A		●		
Turkey Creek	20300			B			A		●		
Middle Creek	20400				B		A		●		
East Middle Creek	20410				B		A		●		
Fairfield Creek	20500			A			A		●	3,13 d	Threatened Species Sensitive Species
South Fork Fairfield Creek	20510			B			A		●	3,5, d	Threatened Species
McGill Creek	20600				B		A		●		
Muleshoe Creek	20700			B			A		●		
Coleman Creek	20800			B			A		●		
Unnamed Creek (Sec 17-33N-24W)	20900			B			A		●		
Clapp Creek	21000			B			A		●		

*State Resource Water designation applies from Borman Bridge (Sec 8, T33N, R27W) to Chimney Creek (NI3-20200) (Sec 6, T32N, R22W).

Effective Date: _____

RIVER BASIN: Niobrara

Subbasin: NI3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Unnamed Creek (Sec 28-34N-25W)	21100				B		A		●		
Unnamed Creek (Sec 30-34N-25W)	21200				B		A		●		
Unnamed Creek (Sec 22-34N-26W)	21300			B			A		●		
Unnamed Creek (Sec 22-34N-26W)	21400			B			A		●		
Crooked Creek	21500			B			A		●		
Little Beaver Creek	21600				B		A		●		
Big Beaver Creek	21700			B			A		●		
Coon Creek	21800			B			A		●		
Minnechaduza Creek - Dry Creek to Niobrara River	21900		●	B			A		●	3,5, 14	Threatened Species Sensitive Species
Spring Creek	21910			B			A		●		
Fishberry Creek	21920			B			A		●	8	Sensitive Species
Dry Creek	21930			B			A		●	3,13 14, 15, n,v	Threatened Species Sensitive Species
Minnechaduza Creek - Headwaters to Dry Creek	22000			B			A		●	3,4, 5,6, 14,f, i,m, n,r	Threatened Species Sensitive Species
Bull Creek	22010			B			A		●	3,4, 12, 14, 15,r	Threatened Species Sensitive Species
Schlagel Creek	22100			A			A		●	d,v	
Gordon Creek - Betsy Creek to Niobrara River	22200			B			A		●	4,9, 12,f	Threatened Species Sensitive Species
Betsy Creek	22210			B			A		●	3,4	Threatened Species
Gordon Creek - Headwaters to Betsy Creek	22300			B			A		●	3,4, 5,6, 9,12 f	Threatened Species Sensitive Species
Arkansas Flats	22310			B			A		●		
Sandy Richards Creek	22320			B			A		●	3,4, 5,8	Threatened Species Sensitive Species

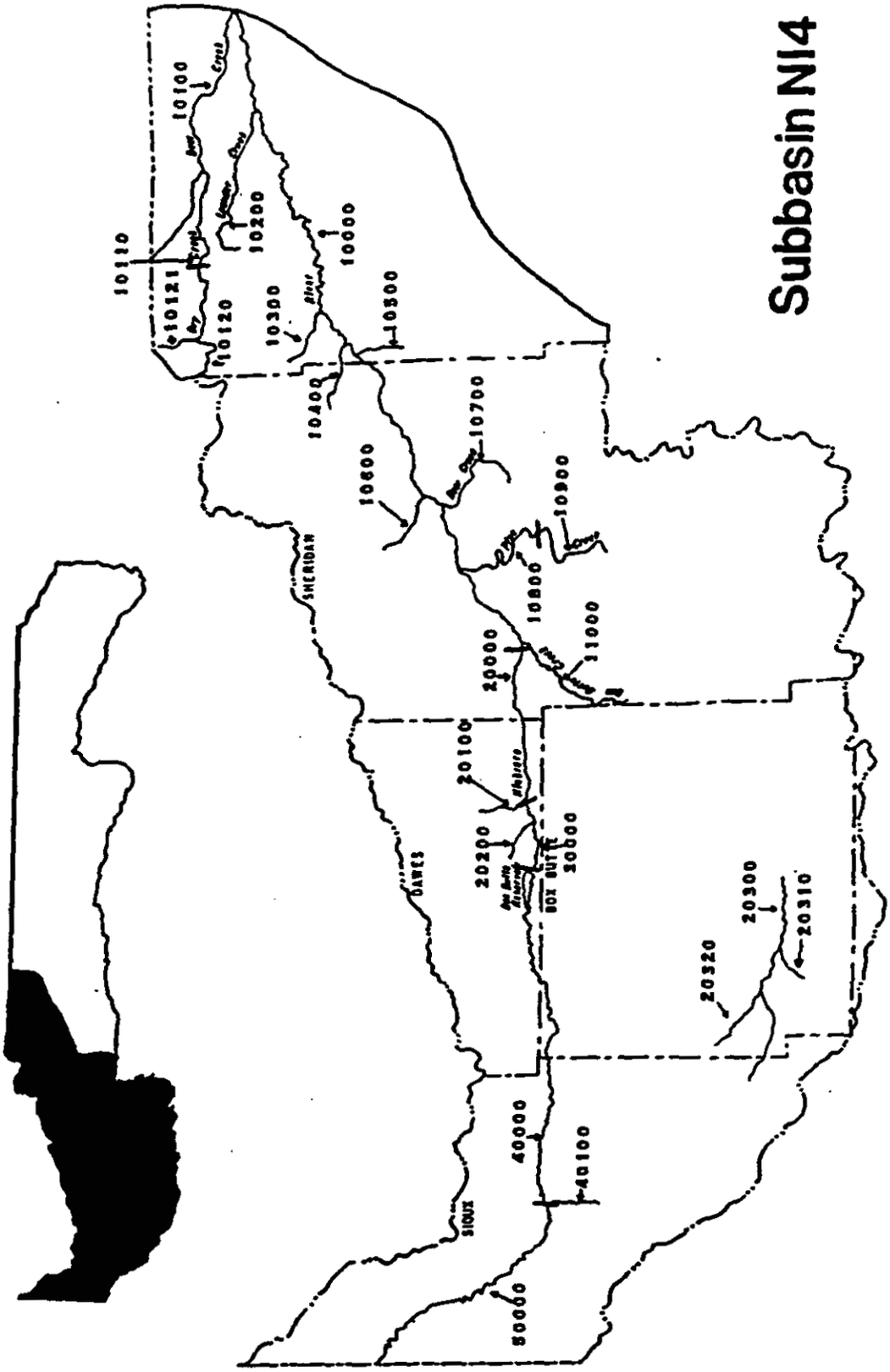
RIVER BASIN: Niobrara

Subbasin: NI3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Snake River - Merritt Reservoir Dam (Sec 30-31N-30W) to Niobrara River	22400		●	A			A		●	4,14 15, 16,d e,i	Threatened Species Sensitive Species
Snake River - Clifford Creek to Merritt Reservoir Dam (Sec 30-31N-30W)	22500		●	B			A		●	3,4, 5,15 n	Threatened Species Sensitive Species
Boardman Creek	22510			A			A		●	5,13 14, 15, d,e, m,n, r	Threatened Species Sensitive Species
Unnamed Creek (Sec 5-29N-34W)	22511				B		A		●		
Clifford Creek	22520			B			A		●		
Willow Creek	22521			B			A		●	5	Threatened Species
Snake River - Headwaters to Clifford Creek	22600			B			A		●	3,4, 5,8	Threatened Species Sensitive Species
Niobrara River - Bear Creek to Snake River	30000		●		A		A		●	i,n	
Unnamed Creek (Sec 35-33N-31W)	30100			B			A		●		
McCann Canyon	30200			B			A		●		
Medicine Creek	30300			B			A		●		

Effective Date: _____

Subbasin NI4



RIVER BASIN: Niobrara

Subbasin: NI4

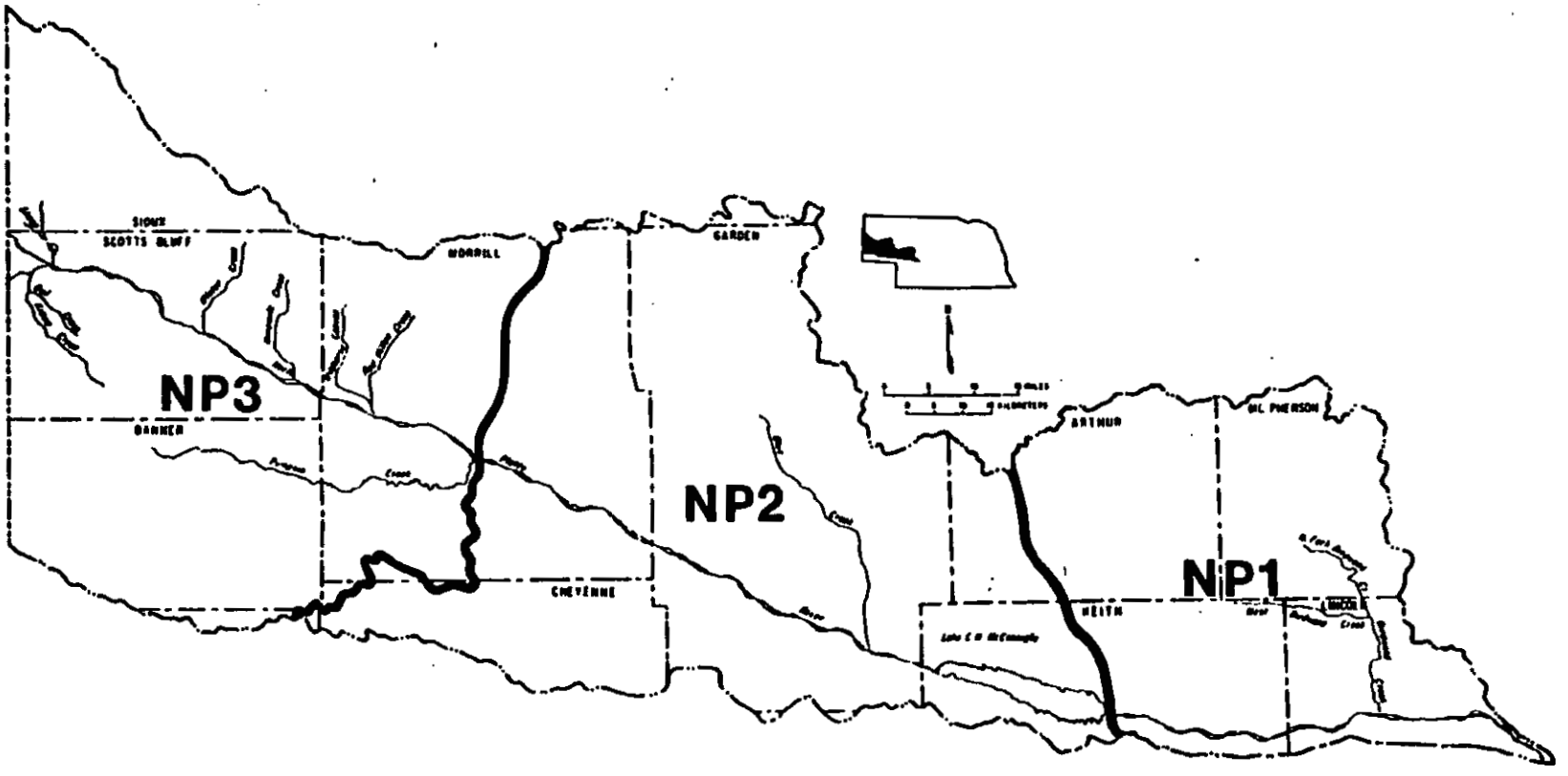
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Niobrara River - Box Butte Creek to Bear Creek	10000		●		A		A		●	i	
Bear Creek	10100				A		A		●	13, 14, f,r	Sensitive Species
Dry Creek - Sec 13-34N-39W to Bear Creek	10110			B			A		●	13, 14, m,n, r,v	Sensitive Species
Dry Creek (Horseshoe Drainage Ditch) - Headwaters to Sec 13-34N-39W	10120			B			A		●		
Unnamed Creek (Sec 14-34N-40W)	10121			B			A		●		
Leander Creek	10200			B			A		●	4,5, 10	Threatened Species Sensitive Species
Hay Creek	10300			B			A		●		
Antelope Creek	10400			B			A		●	8	Sensitive Species
Pole Creek	10500			B			A		●		
Rush Creek	10600				B		A		●		
Deer Creek	10700			B			A		●		
Pine Creek - Sec 11-28N-44W to Niobrara River	10800			B			A		●	8,d	Sensitive Species
Pine Creek - Headwaters to Sec 11-28N-44W	10900			B			A		●	5,8, n	Threatened Species Sensitive Species
Box Butte Creek	11000				B		A		●		
Niobrara River - Mirage Flats Canal Diversion (Sec 26-29N-48W) to Box Butte Creek	20000			B			A		●	i	
Pepper Creek	20100			B			A		●		
Cottonwood Creek	20200			B			A		●		
Snake Creek - Sec 10-25N-53W to Sec 7-24N-50W	20300				B		A		●		
South Branch Snake Creek - Sec 3-24N-52W to Snake Creek	20310				B		A		●		
North Branch Snake Creek - Sec 8-25N-52W to Snake Creek	20320				B		A		●		
Niobrara River - Box Butte Reservoir Dam (Sec 28-29N-49W) to Mirage Flats Canal Diversion (Sec 26-29N-48W)	30000		●	B			A		●	d,e	

Effective Date: _____

RIVER BASIN: Niobrara

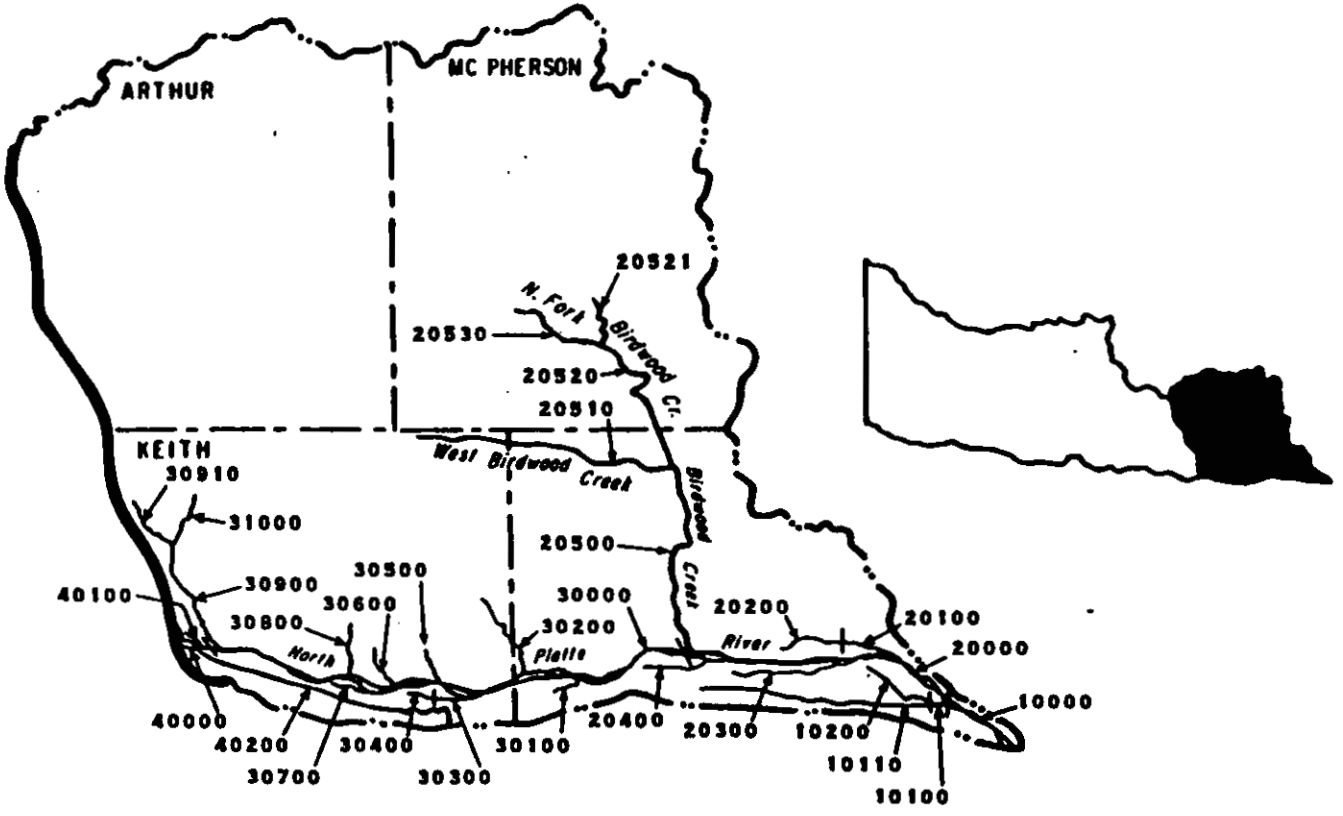
Subbasin: NI4

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Niobrara River - Whistle Creek to Box Butte Reservoir Dam (Sec 28-29N-49W)	40000			B			A		●	5	Threatened Species
Whistle Creek	40100			B			A		●		
Niobrara River - Nebraska-Wyoming border (Sec 18-31N-57W) to Whistle Creek	50000			B			A		●	5	Threatened Species



NORTH PLATTE RIVER BASIN (and Subbasins)

Effective Date: _____



Subbasin NP1

RIVER BASIN: North Platte

Subbasin: NP1

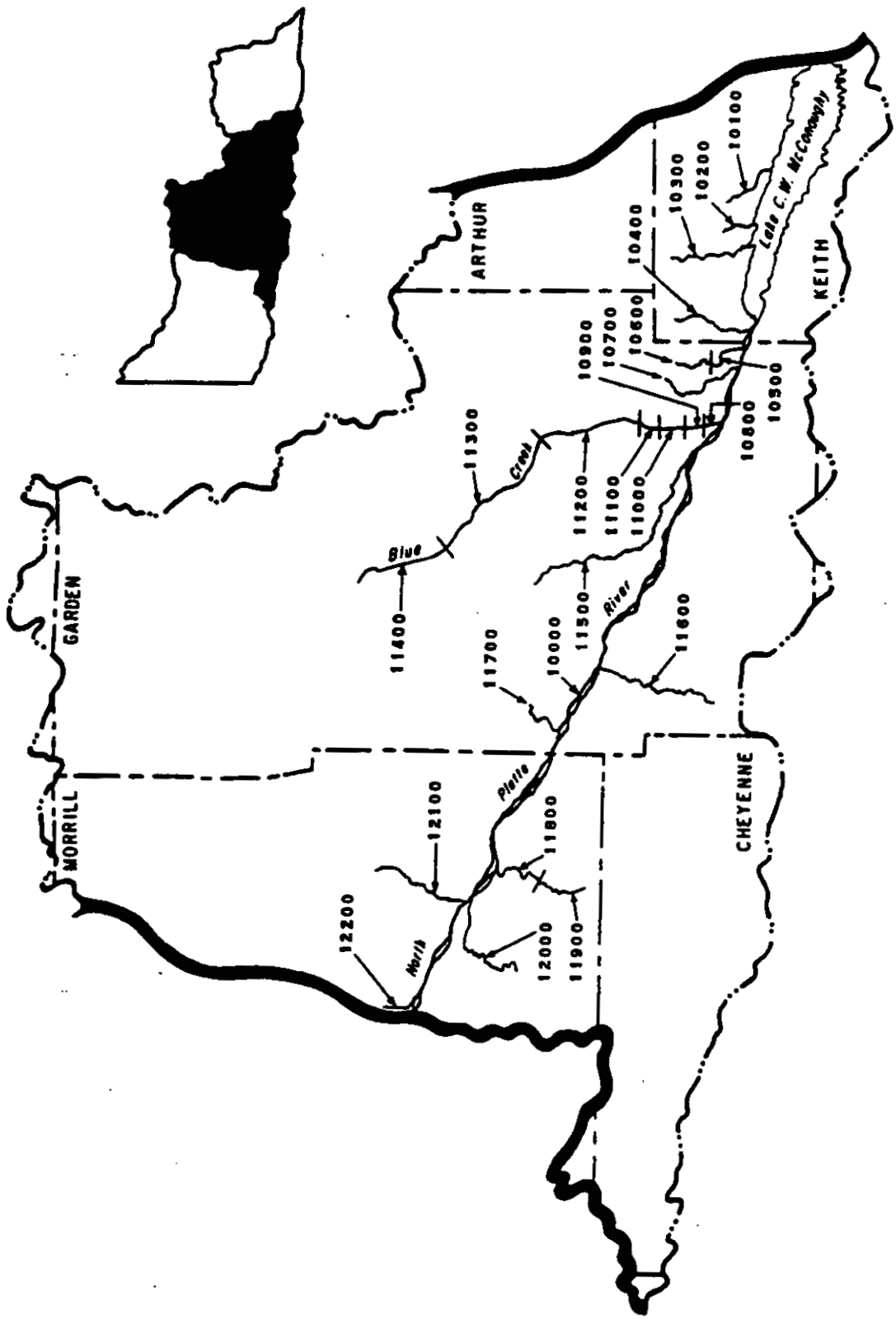
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
North Platte River - Scout Creek to Platte River	10000		●		A		A		●	i	
Scout Creek - Ditch No. 2 (Sec 29-14N-30W), to North Platte River	10100				A		A		●		
Ditch No. 2 (Sec 29-14N-30W)	10110				A		A		●		
Scout Creek - Headwaters to Ditch No. 2 (Sec 29-14N-30W)	10200				B		A		●		
North Platte River - Birdwood Creek to Scout Creek	20000		●	B			A		●	i	
Unnamed Creek (Sec 11-14N-31W) - Sec 5-14N-31W to North Platte River	20100				B		A		●		
Unnamed Creek (Sec 11-14N-31W) - Headwaters to Sec 5-14N-31W	20200				B		A		●		
Unnamed Creek (Sec 9-14N-31W)	20300				B		A		●		
Ditch No. 3 (Sec 12-14N-33W)	20400				B		A		●		
Birdwood Creek - Confluence of West and North Fork Birdwood Creeks to North Platte River	20500		●	B			A		●		
West Birdwood Creek	20510			B			A		●		
North Fork Birdwood Creek - Squaw Creek to Birdwood Creek	20520			B			A		●		
Squaw Creek	20521			B			A		●		
North Fork Birdwood Creek - Headwaters to Squaw Creek	20530			B			A		●		
North Platte River - Whitetail Creek to Birdwood Creek	30000		●	B			A		●	d,e,i	
Bull Ditch (Sec 15-14N-34W)	30100				B		A		●		
East Clear Creek	30200				B		A		●		
Unnamed Drain (Sec 22-14N-35W) - Sheridan Wilson Canal (Sec 20-14N-35W) to North Platte River	30300			B			A		●		
Unnamed Drain (Sec 22-14N-35W) - Headwaters to Sheridan Wilson Canal (Sec. 20-14N-35W)	30400			B			A		●		
Cedar Creek	30500			B			A		●		
Lake Creek	30600			B			A		●		
Unnamed Drain (Sec 22-14N-36W)	30700			B			A		●		

Effective Date: _____

RIVER BASIN: North Platte

Subbasin: NP1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Sand Creek	30800			B			A		●	3	Threatened species
Whitetail Creek - Unnamed Creek (Sec 2-15N-38W) to North Platte River	30900			B			A		●	d	
Unnamed Creek (Sec 2-15N-38W)	30910			B			A		●		
Whitetail Creek - Headwaters to Unnamed Creek (Sec 2-15N-38W)	31000			B			A		●		
North Platte River - Kingsley Dam to Whitetail Creek	40000	B	●	B			A		●	d,e,i	
Unnamed Drain (Sec 1-14N-38W)	40100			B			A		●		
Sutherland Canal - Keystone Diversion Dam to Sec 32-14N-35W (exits North Platte River Basin into South Platte River Basin - see subbasin SP1)	40200			B			A		●	e,i, w	



Subbasin NP2

Effective Date: _____

RIVER BASIN: North Platte

Subbasin: NP2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
North Platte River - Pumpkin Creek to Kingsley Dam	10000		●	B*	A		A		●	e*,i	Salmonid migration
Lonergan Creek - Headwaters to Lake C.W. McConaughy	10100			B			A		●	e	
Sand Creek - Headwaters to Lake C.W. McConaughy	10200			B			A		●		
Otter Creek - Headwaters to Lake C.W. McConaughy	10300	B		A			A		●	d,e	
Clear Creek	10400			B			A		●	e	
Plum Creek - Sec 26-16N-42W to North Platte River	10500				B		A		●		
Plum Creek - Headwaters to Sec 26-16N-42W	10600				B		A		●		
Ash Creek	10700				B		A		●		
Blue Creek - Graf Canal (Sec 19-16N-42W) to North Platte River	10800			B			A		●	d	
Blue Creek - Union Canal (Sec 18-16N-42W) to Graf Canal (Sec 19-16N-42W)	10900			B			A		●	d	
Blue Creek - Hooper Canal (Sec 6-16N-42W) to Union Canal (Sec 18-16N-42W)	11000			B			A		●	d	
Blue Creek - Blue Creek Canal (Sec 33-17N-42W) to Hooper Canal (Sec 6-16N-42W)	11100			B			A		●	d	
Blue Creek - Sec 19-18N-42W to Blue Creek Canal (Sec 33-17N-42W)	11200			B			A		●	11,d	Sensitive species
Blue Creek - Sec 23-19N-44W to Sec 19-18N-42W	11300			B			A		●	11,d	Sensitive species
Blue Creek - Headwaters to Sec 23-19N-44W	11400				A		A		●		
Lost Creek	11500				B		A		●		
Rush Creek	11600			B			A		●		
Coldwater Creek	11700			B			A		●		
Cedar Creek - Belmont Canal (Sec 23-18N-47W) to North Platte River	11800			B			A		●	c,d	
Cedar Creek - Headwaters to Belmont Canal (Sec 23-18N-47W)	11900			B			A		●	c,d	
Deep Holes Creek	12000			B			A		●		

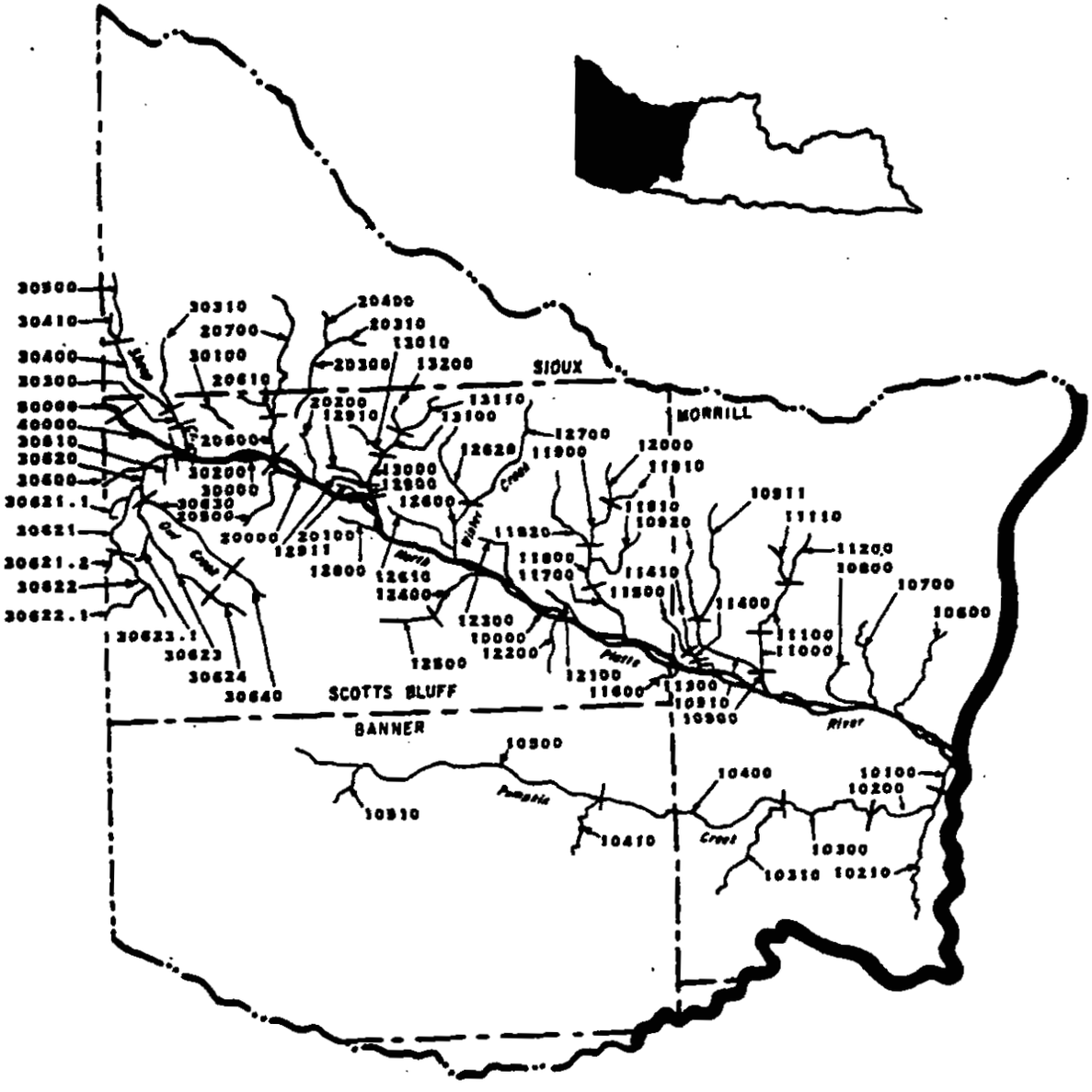
*Segment classified as Coldwater Class B during periods of salmonid migration (September 1 through May 1).

RIVER BASIN: North Platte

Subbasin: NP2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION									COMMENTS
		STATE RESOURCE WATER	RECREATION	AQUATIC LIFE		WATER SUPPLY			AESTHETICS	KEY SPECIES	
				COLDWATER	WARMWATER	PUBLIC DRINKING WATER	AGRICULTURAL	INDUSTRIAL			
Lower Dugout Creek	12100			B			A		●		
Silvertail Drain	12200			B			A		●	d	

Effective Date: _____



Subbasin NP3

RIVER BASIN: North Platte

Subbasin: NP3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
North Platte River - Tub Springs Drain to Pumpkin Creek	10000		●	B			A		●	d,e,i	
Pumpkin Creek - Meredith Ammer Canal (Sec 13-19N-50W) to North Platte River	10100			B			A		●		
Pumpkin Creek - Courthouse Rock Canal (Sec 30-19N-50W) to Meredith Ammer Canal (Sec 13-19N-50W)	10200			B			A		●	11	Sensitive Species
Greenwood Creek	10210			B			A		●	d	
Pumpkin Creek - Lawrence Fork to Courthouse Rock Canal (Sec 30-19N-50W)	10300			B			A		●		
Lawrence Fork	10310			B			A		●	d	
Pumpkin Creek - Big Horn Gulch to Lawrence Fork	10400			B			A		●		
Big Horn Gulch	10410			B			A		●		
Pumpkin Creek - Headwaters to Big Horn Gulch	10500			B			A		●		
Willow Creek	10510			B			A		●		
Upper Dugout Creek	10600				B		A		●		
Indian Creek	10700				B		A		●		
DeGraw Drain	10800				B		A		●		
Red Willow Creek - Wildhorse Drain to North Platte River	10900			B			A		●	d,e,i	
Wildhorse Drain - Wildhorse Canyon to Red Willow Creek	10910			B			A		●	d,e	
Wildhorse Canyon	10911			A			A		●	d,e	
Wildhorse Drain - Headwaters to Wildhorse Canyon	10920			A			A		●	d,e	
Red Willow Creek - Sec 32-21N-51W to Wildhorse Drain	11000			A			A		●	d,e,i	
Red Willow Creek - West Water Creek to Sec 32-21N-51W	11100			A			A		●	d,e,i	
West Water Creek	11110			A			A		●	d,e	
Red Willow Creek - Headwaters to West Water Creek	11200			A			A		●		
Bayard Drain - Alliance Canal (Sec 4-20N-52W) to North Platte River	11300			B			A		●	d,e	

Effective Date: _____

RIVER BASIN: North Platte

Subbasin: NP3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Bayard Drain - Stuckenhole Drain (Sec 28-21N-52W) to Alliance Canal (Sec 4-20N-52W)	11400			B			A		●	d,e	
Stuckenhole Drain (Sec 28-21N-52W)	11410			B			A		●	e	
Bayard Drain - Headwaters to Stuckenhole Drain (Sec 28-21N-52W)	11500			B			A		●		
Cleveland Drain (Sec 6-20N-52W)	11600			B			A		●		
Ninemile Creek - Minatare Drain (Sec 10-21N-53W) to North Platte River	11700			B			A		●	d,e	
Ninemile Creek - Alliance Drain to Minatare Drain (Sec 10-21N-53W)	11800			A			A		●	d,e	
Moffat Drain	11810			B			A		●	d,e	
Alliance Drain	11820			A			A		●	e	
Ninemile Creek - East Ninemile Creek to Alliance Drain	11900			A			A		●	d,e	
East Ninemile Creek	11910			A			A		●		
Ninemile Creek - Headwaters to East Ninemile Creek	12000			A			A		●	d,e	
Fairfield Seep (Sec 18-21N-53W)	12100				B		A		●		
Melbeta Drain (Sec 13-21N-54W)	12200				B		A		●		
Scottsbluff Drain No. 2 (Sec 4-21N-54W)	12300				B		A		●		
Gering Drain - Sec 24-21N-55W to North Platte River	12400				A		A		●		
Gering Drain - Headwaters to Sec 24-21N-55W	12500				B		A		●		
Winters Creek - Dunham Andrews Drain (Sec 8-22N-54W) to North Platte River	12600			A			A		●	d,e	
Scottsbluff Drain No. 1 (Sec 30-22N-54W)	12610				B		A		●		
Dunham Andrews Drain (Sec 8-22N-54W)	12620			A			A		●		
Winters Creek - Headwaters to Dunham Andrews Drain (Sec 8-22N-54W)	12700			A			A		●	d,e	
Unnamed Creek (Sec 20-22N-55W)	12800			B			A		●		
Tub Springs Drain - Unnamed Creek (Sec 8-22N-55W) to North Platte River	12900			B			A		●	d,e	
Unnamed Creek (Sec 8-22N-55W)	12910			B			A		●		

RIVER BASIN: North Platte

Subbasin: NP3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Unnamed Creek (Sec 8-22N-55W)	12911			B			A		●		
Tub Springs Drain - Sunflower Drain (Sec 33-23N-55W) to Unnamed Creek (Sec 8-23N-55W)	13000			A			A		●	d,e	
Sunflower Drain (Sec 33-23N-55W)	13010			B			A		●		
Tub Springs Drain - Hiersche Drain (Sec 23-23N-55W) to Sunflower Drain (Sec 33-23N-55W)	13100			A			A		●	d,e	
Hiersche Drain (Sec 23-23N-55W)	13110			A			A		●	d,e	
Tub Spring Drain - Headwaters to Hiersche Drain (Sec 23-23N-55W)	13200			A			A		●		
North Platte River - Dry Spottedtail Creek to Tub Springs Drain	20000		●	B			A		●	d,e,i	
Unnamed Creek (Sec 8-22N-55W)	20100			B			A		●		
Mitchell Drain (Sec 35-23N-56W)	20200			B			A		●	d,e	
Spottedtail Creek (Sec 10-23N-56W) - Unnamed Creek (Sec 23-24N-56W) to Tri-State Canal	20300			A			A		●	11,d	Sensitive species
Unnamed Creek (Sec 23-24N-56W)	20310			B			A		●		
Spottedtail Creek (Sec 10-23N-56W) - Headwaters to Unnamed Creek (Sec 23-24N-56W)	20400			B			A		●		
Browns Canyon (Sec 33-23N-56W)	20500				B		A		●		
Dry Spottedtail Creek - Unnamed Drain (Sec 9-23N-56W) to North Platte River	20600			B			A		●	d,e	
Unnamed Drain (Sec 9-23N-56W)	20610			B			A		●		
Dry Spottedtail Creek - Headwaters to Unnamed Drain (Sec 9-23N-56W)	20700			B			A		●		
North Platte River - Horse Creek to Dry Spottedtail Creek	30000		●	B			A		●	16,d e,i	Sensitive Species
Unnamed Drain (Sec 12-23N-57W) - Headwaters to Tri-State Canal	30100			B			A		●	11	Sensitive species
Sheep Creek - Tri-State Canal (Sec 17-23N-57W) to North Platte River	30200			B			A		●	d	
Sheep Creek - Dry Sheep Creek to Tri-State Canal (Sec 17-23N-57W)	30300			B			A		●	d	
Dry Sheep Creek	30310			B			A		●	11,d	Sensitive species

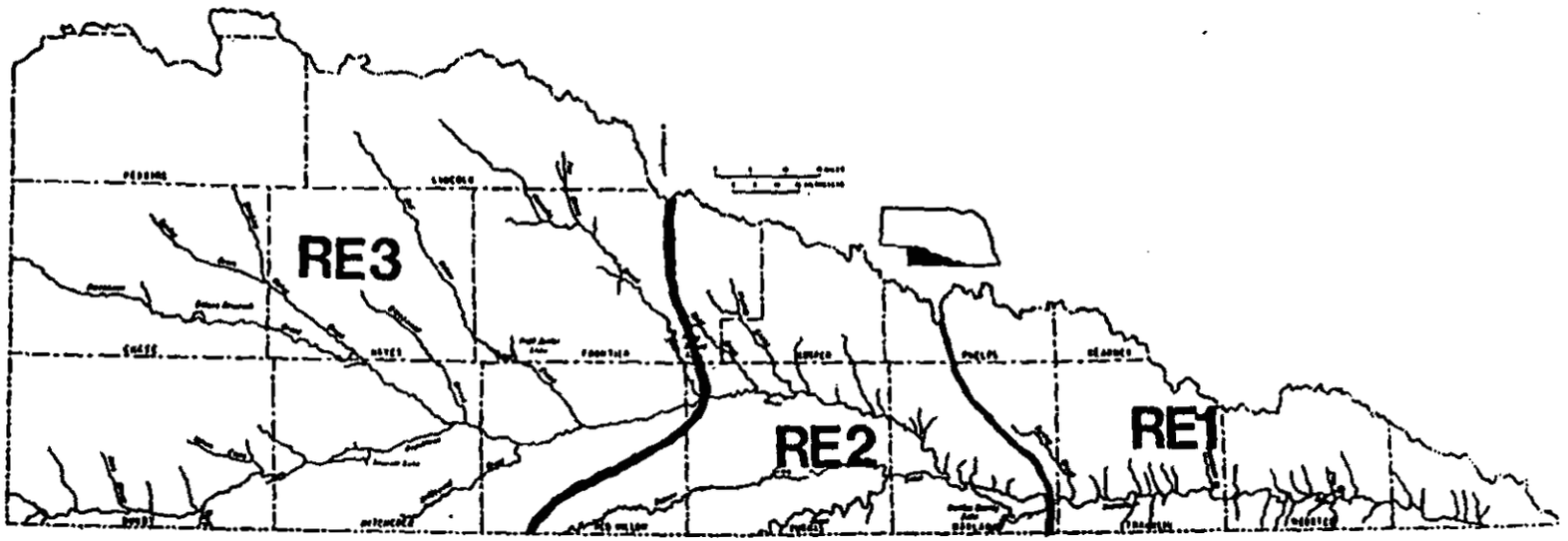
Effective Date: _____

RIVER BASIN: North Platte

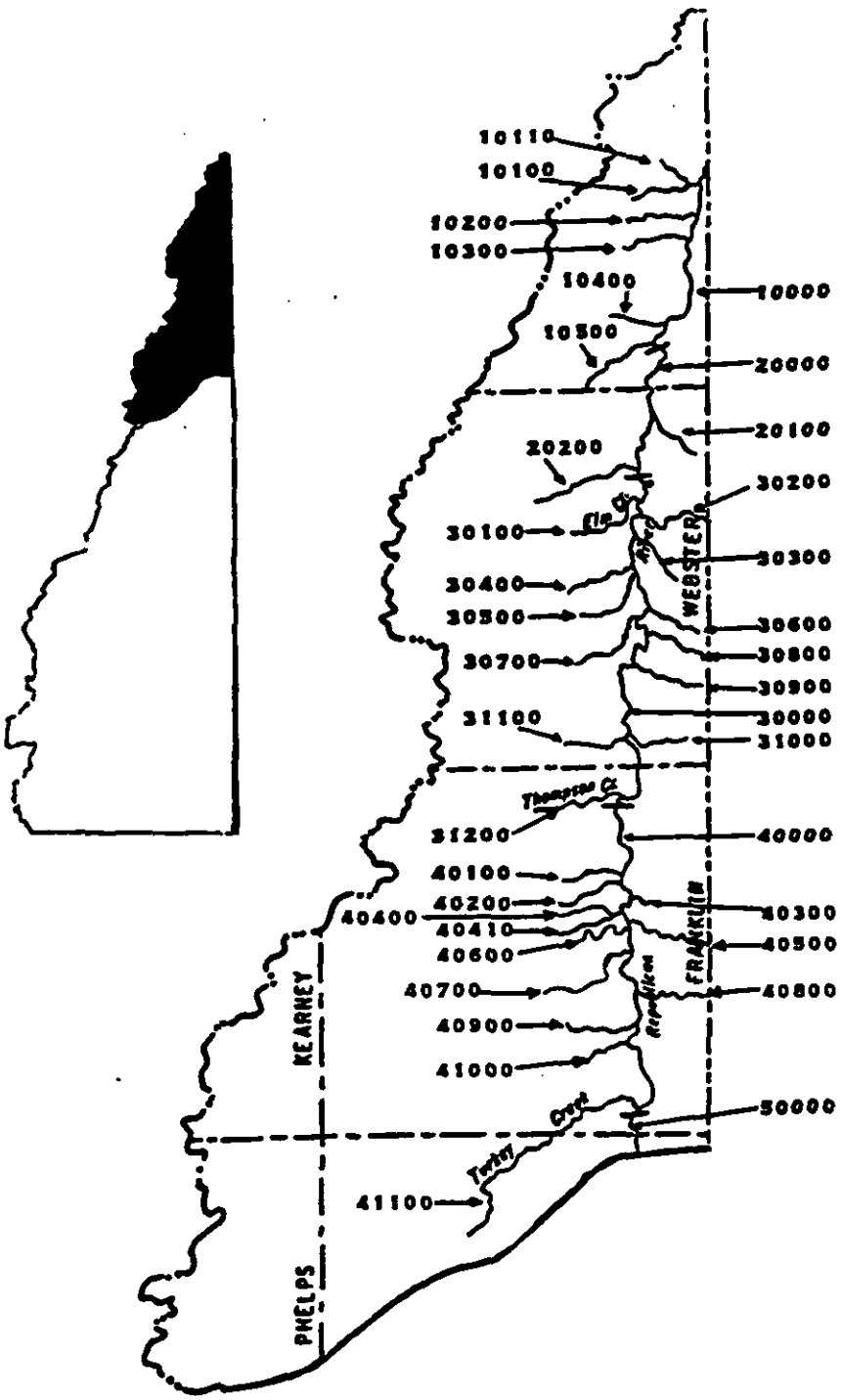
Subbasin: NP3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Sheep Creek - Unnamed Creek (Sec 15-24N-58W) to Dry Sheep Creek	30400			B			A		●	d	
Unnamed Creek (Sec 15-24N-58W)	30410			B			A		●		
Sheep Creek - Headwaters to Unnamed Creek (Sec 15-24N-58W)	30500			A			A		●	11,e	Sensitive species
Horse Creek - Nebraska-Wyoming border (Sec 33-23N-58W) to North Platte River	30600			B			A		●		
Unnamed Drain (Sec 30-23N-57W)	30610				B		A		●		
Owl Creek - Kiowa Creek to Horse Creek	30620				A		A		●		
Dry Creek Drain - Dry Creek Drain-Branch B (Sec 22-22N-58W) to Owl Creek	30621				B		A		●		
Dry Creek Drain-Branch A (Sec 2-22N-58W)	30621.1				B		A		●		
Dry Creek Drain-Branch B (Sec 22-22N-58W)	30621.2				B		A		●		
Dry Creek Drain - Headwaters to Dry Creek Drain-Branch B (Sec 22-22N-58W)	30622				B		A		●		
Unnamed Drain (Sec 34-22N-58W)	30622.1				B		A		●		
Kiowa Creek - Fort Laramie Canal (Sec 32-22N-57W) to Owl Creek	30623			B			A		●		
Kiowa Creek Drain-Branch B (Sec 24-22N-58W)	30623.1				B		A		●		
Kiowa Creek - Headwaters to Fort Laramie Canal (Sec 32-22N-57W)	30624				B		A		●		
Owl Creek - Fort Laramie Canal (Sec 27-22N-57W) to Kiowa Creek	30630			B			A		●		
Owl Creek - Headwaters to Fort Laramie Canal (Sec 27-22N-57W)	30640				B		A		●		
North Platte River - Tri-State Canal (Sec 10-23N-58W) to Horse Creek	40000		●	B			A		●	16,d e,i	Sensitive Species
North Platte River - Nebraska Wyoming border (Sec 4-23N-58W) to Tri-State Canal (Sec 10-23N-58W)	50000		●	B			A		●	16,d e,i	Sensitive Species

REPUBLICAN RIVER BASIN (and Subbasins)



Effective Date: _____



Subbasin RE1

RIVER BASIN: Republican

Subbasin: RE1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Republican River - Beaver Creek to Nebraska-Kansas border (Sec 32-1N-6W)	10000		●		A*		A		●	15,i,j,w	Sensitive Species
Blakely Creek	10100				B		A		●		
Oak Creek	10110				B		A		●		
Lost Creek	10200				B		A		●		
Unnamed Creek (Sec 28-1N-7W)	10300				B		A		●		
Cottonwood Creek	10400				A		A		●	11	Sensitive Species
Beaver Creek	10500				B		A		●		
Republican River - Superior-Courtland Diversion Dam (Sec 7-1N-9W) to Beaver Creek	20000		●		A*		A		●	15,i,j,l,w	Sensitive Species
Rankin Creek	20100				B		A		●		
Willow Creek	20200				B		A		●		
Courtland Canal - Superior-Courtland Diversion Dam (Sec 7-1N-9W) to Nebraska-Kansas border (Sec 32-1N-7W)	20300				A**		A**		●**	15,i,j,l,w	Sensitive Species
Republican River - Thompson Creek to Superior-Courtland Diversion Dam (Sec 7-1N-9W)	30000		●		A*		A		●	15,i,j,l,w	Sensitive Species
Elm Creek	30100			B			A		●	11,e	Sensitive Species
Lost Creek - Nebraska-Kansas border (Sec 35-1N-10W) to Republican River	30200				B		A		●		
Hicks Creek	30300				B		A		●		
Dry Creek	30400				B		A		●		
Crooked Creek	30500			B			A		●	11	Sensitive Species
Cedar Creek	30600				B		A		●		
Indian Creek	30700				A		A		●	11	Sensitive Species
East Penny Creek - Nebraska-Kansas border (Sec 34-1N-11W) to Republican River	30800				B		A		●		
Louisa Creek	30900				B		A		●		
Walnut Creek	31000				A		A		●	11	Sensitive Species
Farmers Creek	31100				B		A		●		

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

**Seasonal designation - applies only when water is diverted into canal.

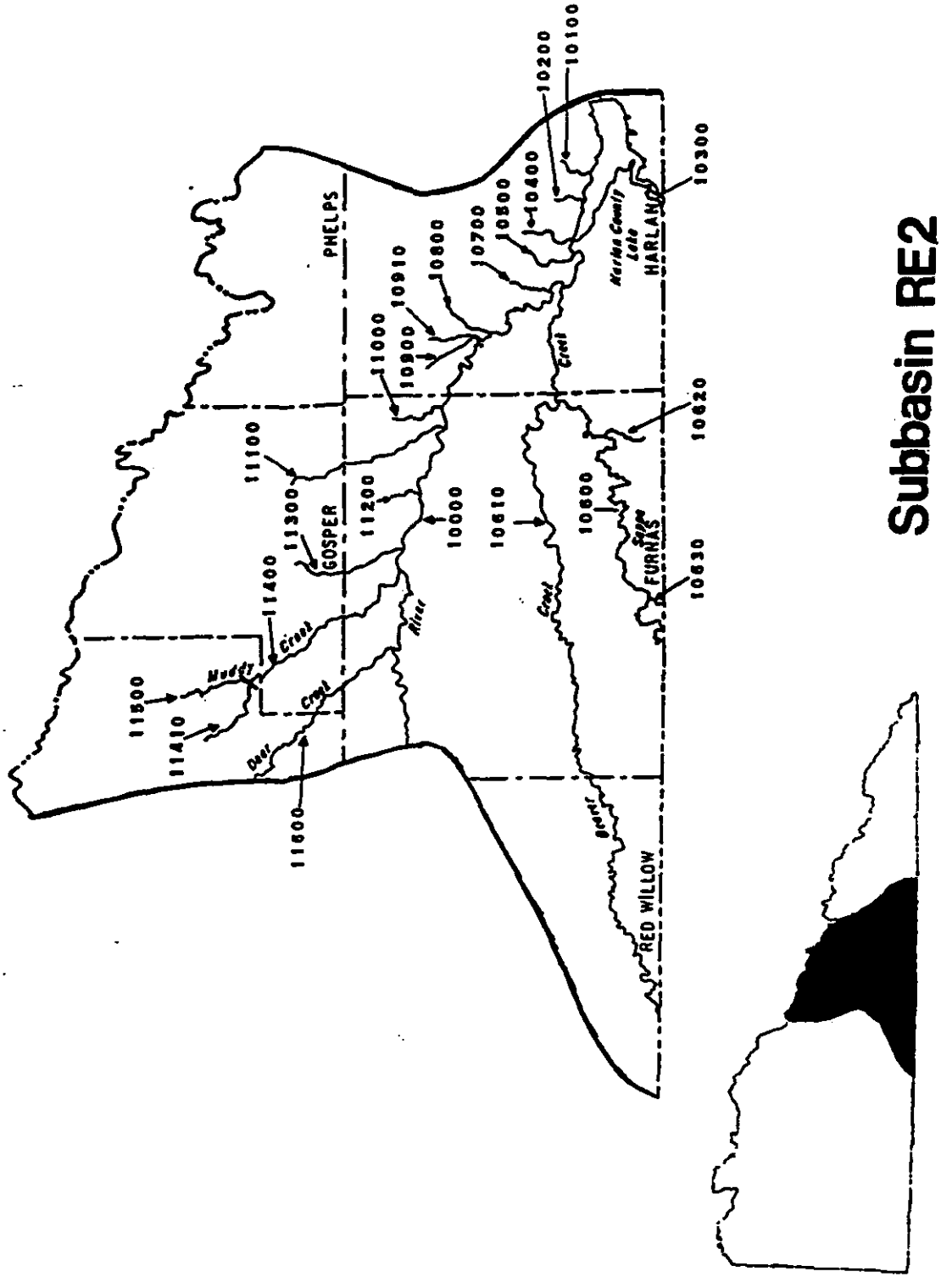
Effective Date: _____

RIVER BASIN: Republican

Subbasin: RE1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Thompson Creek	31200			B			A		●	11,i	Sensitive Species
Republican River - Turkey Creek to Thompson Creek	40000		●		A*		A		●	i,j,l, w	
Wortham Creek	40100				B		A		●		
Lovely Creek	40200				B		A		●		
Reams Creek	40300				B		A		●		
Coates Creek	40400			B			A		●		
Wasp Creek	40410				B		A		●		
Calumet Creek	40500				A		A		●	11	Sensitive Species
Walnut Run	40600				B		A		●		
Center Creek	40700			B			A		●		
Lost Creek	40800				B		A		●		
Little Cottonwood Creek	40900			B			A		●		
Cottonwood Creek	41000			B			A		●	11	Sensitive Species
Turkey Creek	41100			B			A		●		
Republican River - Harlan County Dam to Turkey Creek	50000		●		A*		A		●	i,j,l, w	

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).



Subbasin RE2

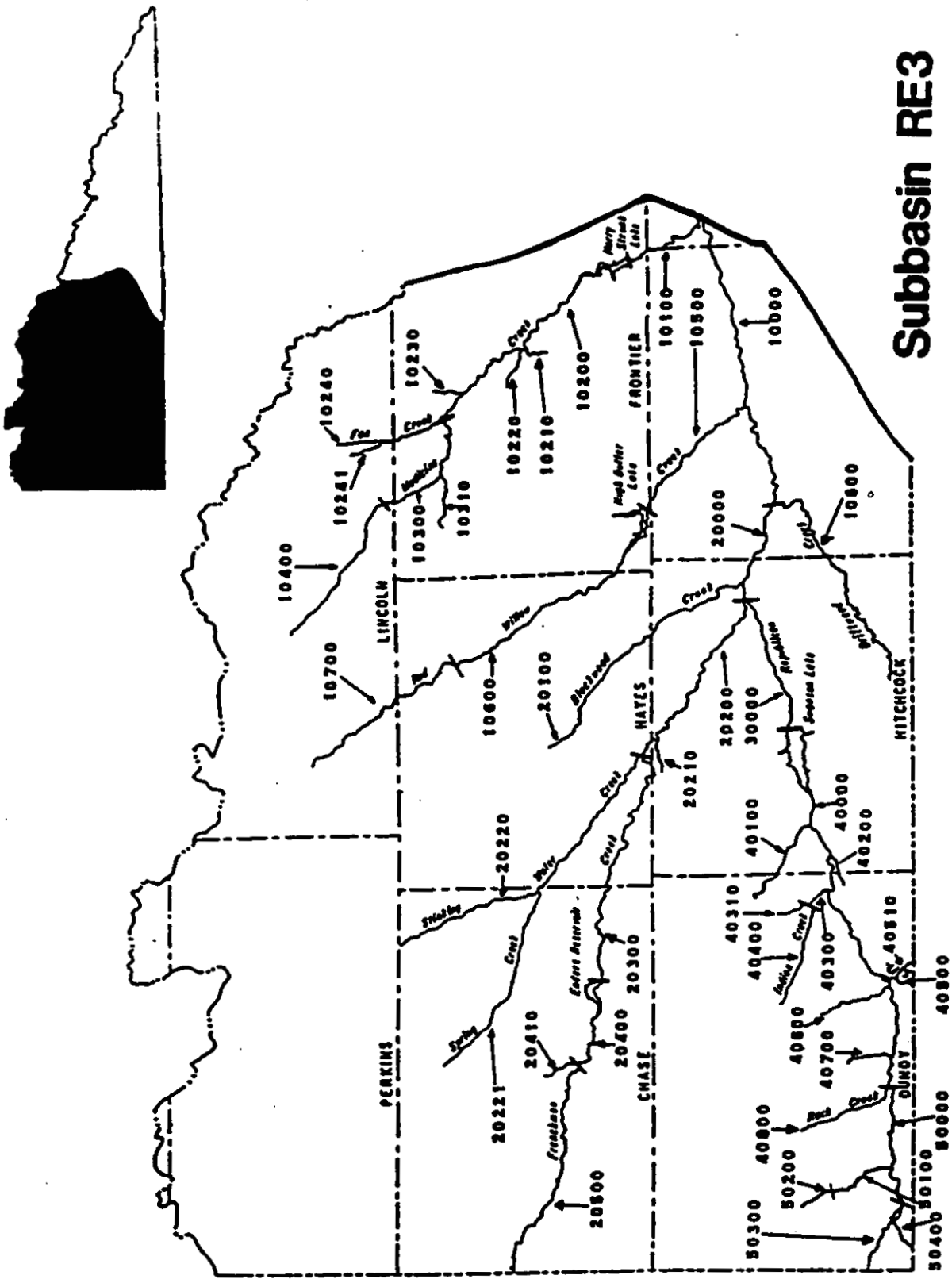
Effective Date: _____

RIVER BASIN: Republican

Subbasin: RE2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Republican River - Medicine Creek to Harlan County Dam	10000		●		A*		A		●	i,j,l	
Methodist Creek	10100				B		A		●		
Cook Creek	10200				B		A		●		
Prairie Dog Creek - Nebraska-Kansas border (Sec 31-1N-19W) to Harlan County Lake	10300				B		A		●		
Rope Creek	10400				B		A		●		
Flag Creek	10500				B		A		●		
Sappa Creek - Nebraska-Kansas border (Sec 35-1N-24W) to Republican River	10600				B		A		●		
Beaver Creek - Nebraska-Kansas border (Sec 36-1N-29W) to Sappa Creek	10610				B		A		●		
Sheep Creek	10620				B		A		●		
Dutch Creek - Nebraska-Kansas border (Sec 32-1N-23W) to Sappa Creek	10630				B		A		●		
Milrose Creek	10700				B		A		●		
Foster Creek	10800				B		A		●		
Spring Creek	10900				B		A		●		
Deep Creek	10910				B		A		●		
Swartz Creek	11000				B		A		●		
Turkey Creek	11100				B		A		●		
Dry Creek	11200				B		A		●		
Elk Creek	11300				A		A		●	i	
Muddy Creek - West Muddy Creek to Republican River	11400				A		A		●	i	
West Muddy Creek	11410				A		A		●	i	
Muddy Creek - Headwaters to West Muddy Creek	11500				B		A		●		
Deer Creek Canyon	11600				B		A		●		
Medicine Creek (see subbasin RE3)											

*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).



Effective Date: _____

RIVER BASIN: Republican

Subbasin: RE3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Republican River - Driftwood Creek to Medicine Creek	10000		●		A*		A		●	i,j,l	
Medicine Creek - Medicine Creek Dam to Republican River	10100		●		B		A		●		
Medicine Creek - Fox Creek to Medicine Creek Dam	10200				A		A		●	i,l	
Cedar Creek	10210				B		A		●		
Spring Creek	10220				B		A		●		
Curtis Creek Canyon	10230				B		A		●		
Fox Creek	10240				A		A		●	11	Sensitive Species
Cut Canyon	10241				B		A		●		
Medicine Creek - Hay Canyon to Fox Creek	10300				A		A		●	11,i	Sensitive Species
Brushy Creek	10310				B		A		●		
Medicine Creek - Headwaters to Hay Canyon	10400				A		A		●	11	Sensitive Species
Red Willow Creek - Red Willow Dam to Republican River	10500				B		A		●		
Red Willow Creek - Hayes Center WMA (Sec 11-7N-32W) to Red Willow Dam	10600				A		A		●	i	
Red Willow Creek - Headwaters to Hayes Center SWA (Sec 11-7N-32W)	10700				B		A		●		
Driftwood Creek	10800				B		A		●		
Republican River - Frenchman Creek to Driftwood Creek	20000		●		A*		A		●	i	
Blackwood Creek	20100				B		A		●		
Frenchman Creek - Stinking Water Creek to Republican River	20200			B			A		●	11	Sensitive Species
Bobtail Creek	20210				B		A		●		
Stinking Water Creek	20220			B			A		●	i	
Spring Creek	20221			B			A		●		
Frenchman Creek - Enders Dam to Stinking Water Creek	20300		●	B			A		●	11	Sensitive Species
Frenchman Creek - Sand Draw to Enders Dam	20400			B			A		●	11,e i	Sensitive Species

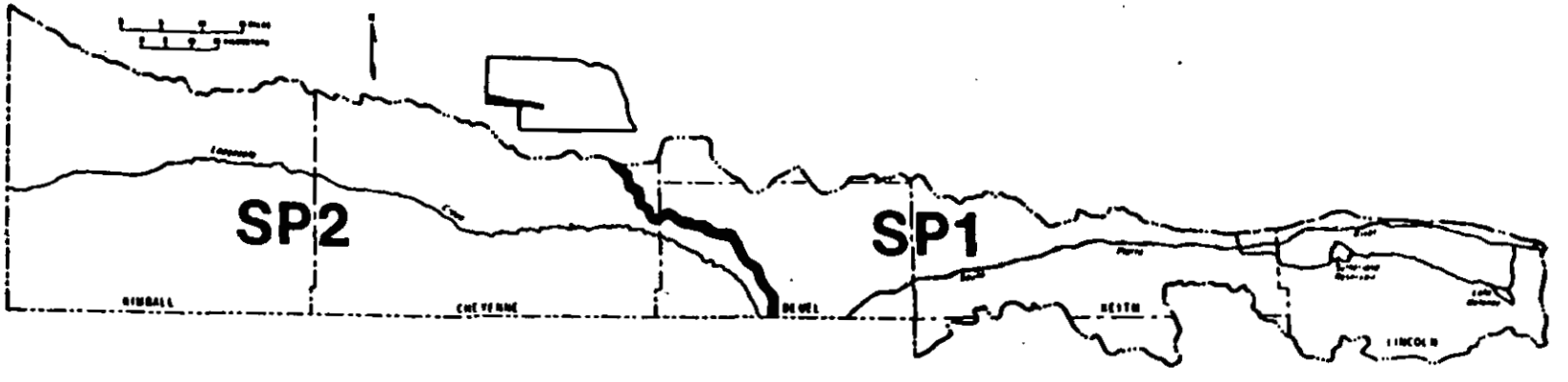
*Site-specific water quality criteria for ammonia are assigned (see Chapter 4, 003.02B).

RIVER BASIN: Republican

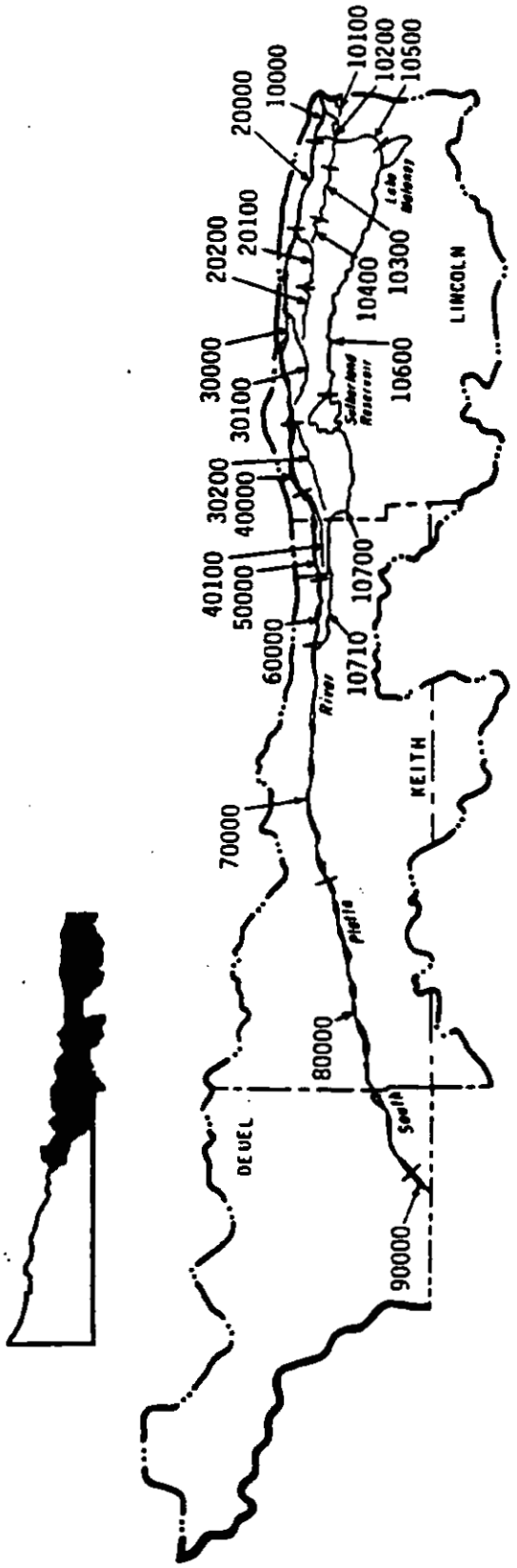
Subbasin: RE3

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Sand Draw	20410			B			A		●		
Frenchman Creek - Headwaters to Sand Draw	20500			B			A		●	11,e	Sensitive Species
Republican River - Trenton Dam to Frenchman Creek	30000				B		A		●		
Republican River - Rock Creek to Trenton Dam	40000		●		A		A		●	i	
Muddy Creek	40100				B		A		●		
Burntwood Creek	40200				B		A		●		
Indian Creek - Rock Canyon to Republican River	40300			B			A		●		
Rock Canyon	40310				B		A		●		
Indian Creek - Headwaters to Rock Canyon	40400			B			A		●		
South Fork Republican River - Nebraska-Kansas border (Sec 36-1N-38W) to Republican River	40500				B		A		●		
Big Timber Creek Nebraska-Kansas border (Sec 31-2N-37W) to South Fork Republican River	40510				B		A		●		
Spring Creek	40600				B		A		●		
Horse Creek	40700				B		A		●		
Rock Creek	40800			B			A		●	11	Sensitive Species
Republican River - Confluence of North Fork Republican River and Arikaree River to Rock Creek	50000				A		A		●	i	
Buffalo Creek - Sec 26-2N-41W to Republican River	50100				A		A		●		
Buffalo Creek - Headwaters to Sec 26-2N-41W	50200			B			A		●		
North Fork Republican River - Nebraska-Colorado border (Sec 10-1N-42W) to Republican River	50300				B		A		●		
Arikaree River - Nebraska-Kansas border (Sec 36-1N-42W) to Republican River	50400				B		A		●		

Effective Date: _____



SOUTH PLATTE RIVER BASIN (and Subbasins)



Subbasin SP1

Effective Date: _____

RIVER BASIN: South Platte

Subbasin: SP1

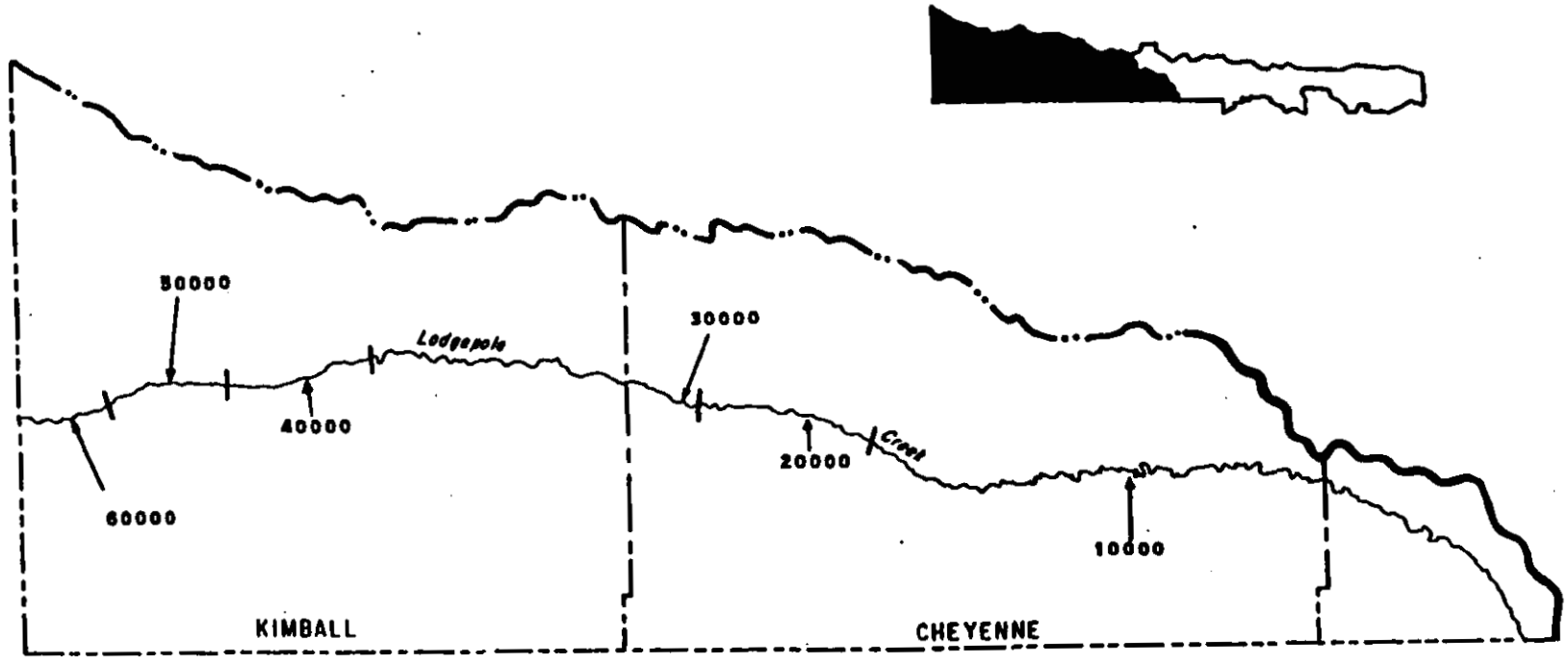
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
South Platte River - Outlet Canal (Sec 10-13N-30W) to Platte River	10000		●		A		A		●	i,o, w	
Fremont Slough - Sec 13-13N-30W to Sec 18-13N-29W	10100			B			A		●		
Fremont Slough (Sec 7-13N-29W) - Sec 13-13N-31W to South Platte River	10200			B			A		●	8	Sensitive Species
Fremont Slough (Sec 7-13N-29W) - Sec 9-13N-31W to Sec 13-13N-31W	10300			B			A		●		
Fremont Slough (Sec 7-13N-29W) - Headwaters to Sec 9-13N-31W	10400			B			A		●		
Outlet Canal (Sec 9-13N-30W) - Lake Maloney to South Platte River	10500				A		A		●	i,o, w	
Outlet Canal - Sutherland Reservoir to Lake Maloney	10600				A		A		●	i,o, w	
Sutherland Canal - Sec 32-14N-35W to Sutherland Reservoir (enters South Platte River Basin from North Platte River Basin - see subbasin NP1)	10700			B			A		●	e,i, w	
South Platte River Supply Canal - Korty Diversion Dam to Sutherland Canal	10710				A		A		●		
South Platte River - Fremont Slough (Sec 32-14N-31W) to Outlet Canal (Sec 10-13N-30W)	20000				A		A		●	i	
Fremont Slough (Sec 32-14N-31W) - Sec 2-13N-32W to South Platte River	20100			B			A		●		
Fremont Slough (Sec 32-14N-31W) - Headwaters to Sec 2-13N-32W	20200			B			A		●		
South Platte River - Unnamed Creek (Sec 31-14N-33W) to Fremont Slough (Sec 32-14N-31W)	30000				A		A		●	i	
Fremont Slough (Sec 27-14N-32W)	30100			B			A		●		
Unnamed Creek (Sec 31-14N-33W)	30200			B			A		●		
South Platte River - Unnamed Creek (Sec 5-13N-34W) to Unnamed Creek (Sec 31-14N-33W)	40000				A		A		●	i	
Unnamed Creek (Sec 5-13N-34W)	40100			B			A		●		
South Platte River - Sutherland Canal to Unnamed Creek (Sec 5-13N-34W)	50000				A		A		●	i	
South Platte River - Korty Diversion Dam to Sutherland Canal	60000			B			A		●		

RIVER BASIN: South Platte

Subbasin: SP1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION									COMMENTS
				AQUATIC LIFE		WATER SUPPLY					
		STATE RESOURCE WATER	RECREATION	COLDWATER	WARMWATER	PUBLIC DRINKING WATER	AGRICULTURAL	INDUSTRIAL	AESTHETICS	KEY SPECIES	
South Platte River - Western Canal (Sec 16-13N-39W) to Korty Diversion Dam	70000				A		A		●		
South Platte River - Western Canal (Sec 13-12N-43W) to Western Canal (Sec 16-13N-39W)	80000				A		A		●		
South Platte River - Nebraska-Colorado border (Sec 22-12N-44W) to Western Canal (Sec 13-12N-43W)	90000				A		A		●		

Effective Date: _____



Subbasin SP2

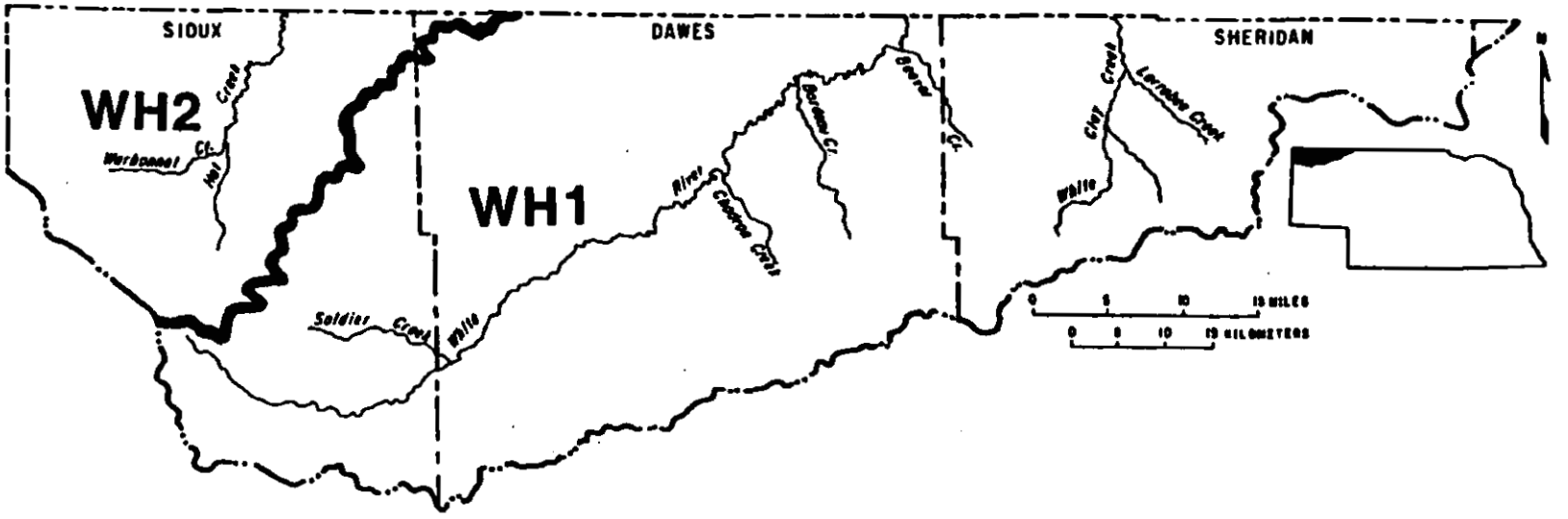
Effective Date: _____

RIVER BASIN: South Platte

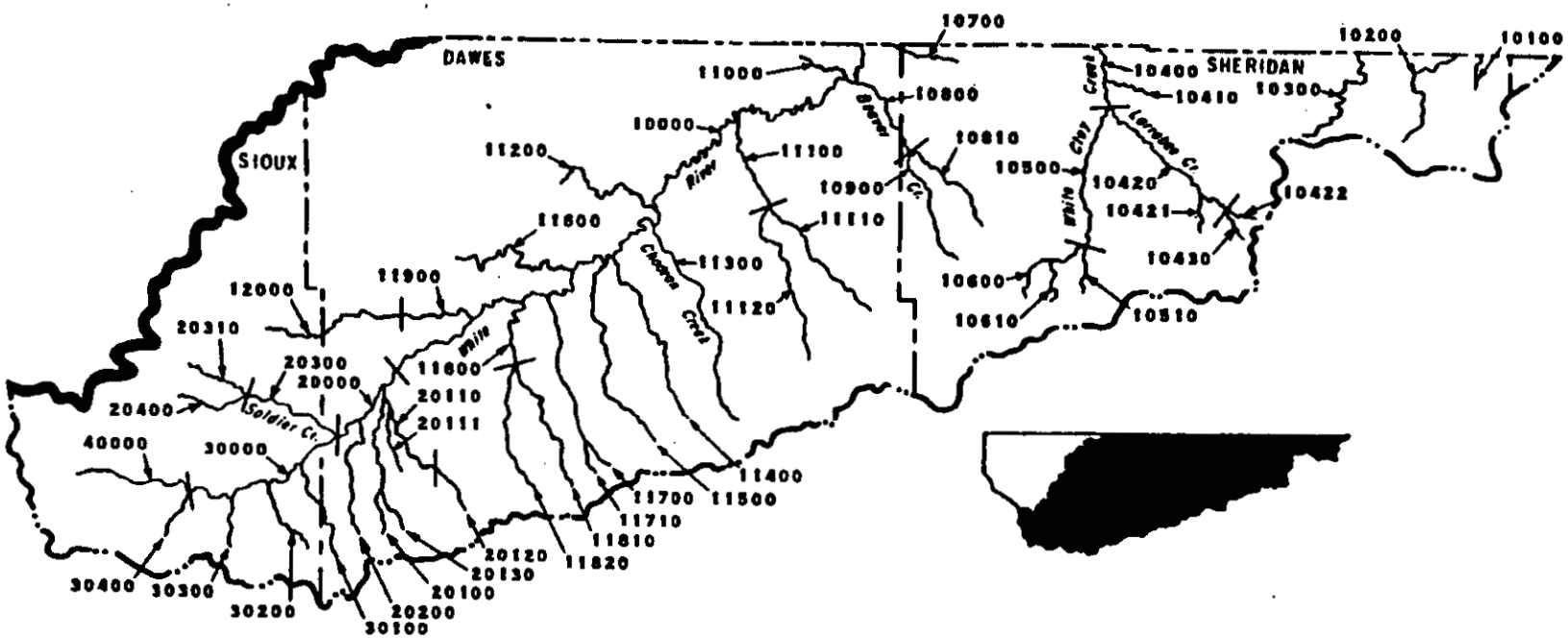
Subbasin: SP2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION									COMMENTS
				AQUATIC LIFE		WATER SUPPLY					
		STATE RESOURCE WATER	RECREATION	COLDWATER	WARMWATER	PUBLIC DRINKING WATER	AGRICULTURAL	INDUSTRIAL	AESTHETICS	KEY SPECIES	
Lodgepole Creek - Sec 20-14N-50W to Nebraska-Colorado border(Sec 19-12N-44W)	10000				B		A		●		
Lodgepole Creek - Sec 3-14N-52W to Sec 20-14N-50W	20000			B			A		●	11,d	Sensitive Species
Lodgepole Creek - Sec 29-15N-55W to Sec 3-14N-52W	30000				B		A		●		
Lodgepole Creek - Oliver Reservoir Dam to Sec 29-15N-55W	40000			B			A		●	11,d	Sensitive Species
Lodgepole Creek - Unnamed Creek (Sec 3-14N-58W) to Oliver Reservoir Dam	50000			A			A		●	11,d	Sensitive Species
Lodgepole Creek - Nebraska-Wyoming border (Sec 11-14N-59W) to Unnamed Creek (Sec 3-14N-58W)	60000				B		A		●		

Effective Date: _____



WHITE RIVER-HAT CREEK BASIN (and Subbasins)



Subbasin WH1

RIVER BASIN: White River-Hat Creek

Subbasin: WH1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
White River - Whitney Pipe Line (Aqueduct) (Sec 26-32N-52W) to Nebraska-South Dakota border (Sec 22-35N-47W)	10000				A	●	A		●	i	
Unnamed Creek - Headwaters to Nebraska-South Dakota border (Sec 22-35N-41W)	10100				B		A		●		
Unnamed Creek - Headwaters to Nebraska-South Dakota border (Sec 21-35N-41W)	10200				B		A		●		
Wounded Knee Creek - Headwaters to Nebraska-South Dakota border (Sec 19-35N-42W)	10300				B		A		●		
White Clay Creek - Larabee Creek to Nebraska-South Dakota border (Sec 24-35N-45W)	10400			B			A		●	d	
Patton Creek	10410				B		A		●		
Larabee Creek - Unnamed Creek (Sec 6-33N-43W) to White Clay Creek	10420			B			A		●	d	
Unnamed Creek (Sec 36-34N-44W)	10421			B			A		●		
Unnamed Creek (Sec 6-33N-43W)	10422			B			A		●		
Larabee Creek - Headwaters to Unnamed Creek (Sec 6-33N-43W)	10430			B			A		●	d	
White Clay Creek - Unnamed Creek (Sec 14-33N-45W) to Larabee Creek	10500			B			A		●	d	
Unnamed Creek (Sec 14-33N-45W)	10510			B			A		●		
White Clay Creek - Headwaters to Unnamed Creek (Sec 14-33N-45W)	10600			B			A		●		
Unnamed Creek (Sec 22-33N-45W)	10610			B			A		●		
Limekiln Creek - Headwaters to Nebraska-South Dakota border (Sec 24-35N-47W)	10700			B			A		●		
Beaver Creek - Little Beaver Creek to White River	10800			B			A		●	c,d	
Little Beaver Creek	10810			B			A		●		
Beaver Creek - Headwaters to Little Beaver Creek	10900			A			A		●	c,d	
Alkali Creek	11000				B		A		●		
Bordeaux Creek - Confluence of Little and Big Bordeaux Creeks to White River	11100			B			A		●	c,d, e	
Little Bordeaux Creek	11110			B			A		●	d,e	

RIVER BASIN: White River-Hat Creek

Subbasin: WH1

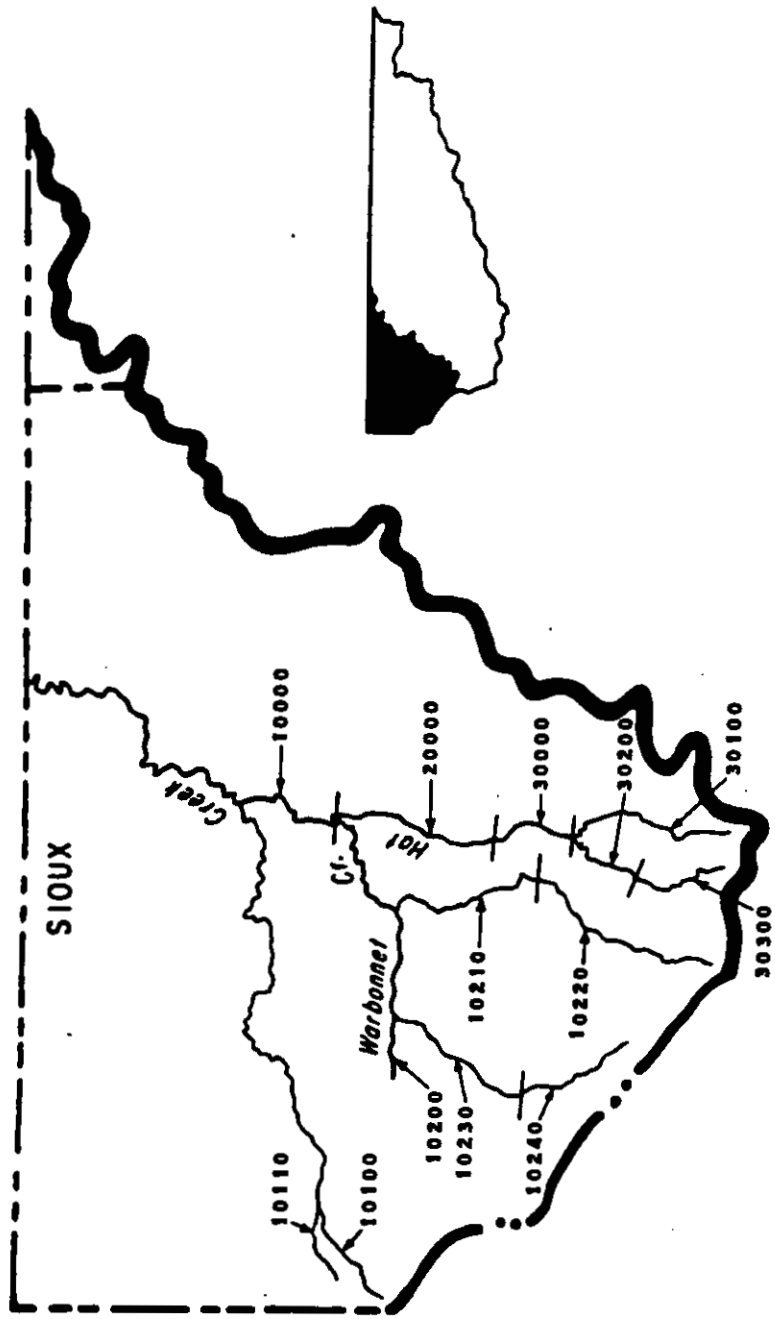
STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Big Bordeaux Creek	11120			B			A		●	c,d, e	
Lone Tree Creek	11200				B		A		●		
Chadron Creek	11300			A		●	A		●	d,e	
Dead Horse Creek	11400			A			A		●	c	
Trunk Butte Creek	11500			B			A		●		
Big Cottonwood Creek	11600				B		A		●		
Indian Creek	11700			B			A		●		
Cunningham Creek	11710	A		B			A		●		
Ash Creek - Confluence of East and West Ash Creeks to White River	11800			B			A		●		
East Ash Creek	11810			B			A		●		
West Ash Creek	11820			B			A		●	d	
Little Cottonwood Creek - Sand Creek (Sec 12-32N-52W) to White River	11900				B		A		●		
Little Cottonwood Creek - Headwaters to Sand Creek (Sec 12-32N-52W)	12000			B			A		●		
White River - Soldier Creek to Whitney Pipe Line (Aqueduct) (Sec 26-32N-52W)	20000		●	B		●	A		●	d,e	
White Clay Creek	20100			B			A		●	c	
Squaw Creek - Nebraska National Forest boundary (Sec 20-31N-51W) to White Clay Creek	20110			B			A		●		
English Creek	20111			B			A		●		
Squaw Creek - Headwaters to Nebraska National Forest boundary (Sec 20-31N-51W)	20120	A		B			A		●	c	
Unnamed Creek (Sec 36-31N-52W)	20130			B			A		●		
Bozie Creek (Sec 9-31N-52W)	20200			B			A		●		
Soldier Creek - Middle Fork Soldier Creek to White River	20300	A		A			A		●	d,e	
Middle Fork Soldier Creek	20310	A		A			A		●	d,e	
Soldier Creek - Headwaters to Middle Fork Soldier Creek	20400	A		A			A		●	d,e	

Effective Date: _____

RIVER BASIN: White River-Hat Creek

Subbasin: WH1

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
White River - Kyle Creek (Sec 35-31N-54W) to Soldier Creek	30000	B		A		●	A		●	d,e	
Dead Man's Creek	30100			B		●	A		●	c	
Deep Creek (Sec 33-31N-53W)	30200			B			A		●	e	
Bull Creek (Sec 6-30N-53W)	30300			B			A		●		
Kyle Creek (Sec 35-31N-54W)	30400			B			A		●		
White River - Headwaters to Kyle Creek (Sec 35-31N-54W)	40000	B		A		●	A		●	d,e	



Subbasin WH2

Effective Date: _____

RIVER BASIN: Whit River-Hat Creek

Subbasin: WH2

STREAM SEGMENT	SEGMENT NUMBER	USE CLASSIFICATION: STATE RESOURCE WATER	RECREATION	AQUATIC LIFE: COLDWATER	AQUATIC LIFE: WARMWATER	WATER SUPPLY: PUBLIC DRINKING WATER	WATER SUPPLY: AGRICULTURAL	WATER SUPPLY: INDUSTRIAL	AESTHETICS	KEY SPECIES	COMMENTS
Hat Creek - Warbonnet Creek to Nebraska-South Dakota border (Sec 22-35N-54W)	10000				B		A		●		
Squaw Creek	10100				B		A		●		
West Squaw Creek (Sec 22-34N-57W)	10110				B		A		●		
Warbonnet Creek	10200			B			A		●		
Sowbelly Creek - Spring Creek (Sec 34-33N-55W) to Warbonnet Creek	10210			A			A		●	c,d, e	
Sowbelly Creek - Headwaters to Spring Creek (Sec 34-33N-55W)	10220			A			A		●	c,d, e	
Monroe Creek - Sec 33-33N-56W to Warbonnet Creek	10230			A			A		●	c,d	
Monroe Creek - Headwaters to Sec 33-33N-56W	10240			A			A		●	c,d	
Hat Creek - Sec 26-33N-55W to Warbonnet Creek	20000			B			A		●	d	
Hat Creek - Confluence of East and West Hat Creeks to Sec 26-33N-55W	30000			B			A		●	d	
East Hat Creek	30100			A			A		●	d	
West Hat Creek - Sec 16-32N-55W to Hat Creek	30200			A			A		●	c,d	
West Hat Creek - Headwaters to Sec 16-32N-55W)	30300			A			A		●	c,d	

Title 117

Chapter 5

Enabling Legislation: Neb. Rev. Stat. [81-1505(1)(2)

Legal Citation: Title 117, Ch. 5, Nebraska Department of Environmental Quality

APPROVED
DON STENBERG
ATTORNEY GENERAL

JUN 30 2000

BY ..... Assistant Attorney General

APPROVED

AUG 17 2000

MIKE JOHANNS
GOVERNOR

FILED

AUG 17 2000

By SECRETARY OF STATE

Effective Date: _____

Title 117

Chapter 6

Enabling Legislation: Neb. Rev. Stat. §81-1505(1)(2)

Legal Citation: Title 117, Ch. 6, Nebraska Department of Environmental Quality

APPROVED as to amendments
DON STENBERG
ATTORNEY GENERAL
DEC 22 1999
BY
Assistant Attorney General

APPROVED
FEB 02 2003
MIKE JOHANNS
GOVERNOR

FILED
AUG 17 2000
SECRETARY OF STATE

Title 117 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 7 - WATER QUALITY STANDARDS FOR WETLANDS

001 Wetlands serve a multitude of important functions which include, but are not limited to, providing habitat for aquatic life and other wildlife, food production, stormwater control and flood attenuation, erosion control, shoreline stabilization, nonpoint source runoff filtration, groundwater recharge, and aesthetics. Wetlands are characterized by extreme variations in hydrology, soils, vegetation, water quality, and biotic assemblages. The dynamic nature of wetlands requires standards which recognize their variability of natural water quality both through time at individual sites and between sites across the State. Wetland classifications, beneficial uses, and water quality criteria contained in this chapter reflect the unique characteristics of wetlands in Nebraska.

002 Application of Standards to Wetlands.

002.01 These standards shall apply to all natural wetlands and all artificial wetlands except as provided in paragraph 002.02. Numerical criteria which rely on water in order to be measured, shall not be deemed applicable during periods when water is not present.

002.02 These standards shall not apply to artificial wetlands constructed for the purpose of wastewater treatment, wastewater retention, or irrigation reuse. However, any discharge to surface waters from artificial wetlands constructed for these purposes shall meet the applicable standards for the receiving water.

002.03 Wastewater from domestic, municipal, or industrial sources authorized by NPDES permits to discharge to wetlands shall meet all applicable standards for the wetland. No mixing zones shall be allowed within wetlands.

APPROVED
DON STENBERG
ATTORNEY GENERAL
JUN 30 2000
BY
Assistant Attorney General

APPROVED
AUG 17 2000
MIKE JOHANNS
GOVERNOR

Effective Date: 1-22-00

003 Wetland Classifications

Wetlands are classified into two categories based on hydrological characteristics which affect the attainable beneficial uses. For purposes of these standards, the two general classifications are surface-water overflow wetlands and isolated wetlands. Within each classification, specific wetland complexes and individual wetlands may be identified by their physical, chemical, and biological characteristics and functional values. Wetlands are defined in Chapter 1. Wetlands are identified and delineated using methods contained in the "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterway Experiment Station, Vicksburg, MS.

003.01 Surface-Water Overflow Wetlands.

These are wetlands which exhibit a surface water connection to an adjacent stream or lake on a regular or periodic basis. These wetlands have the potential to provide beneficial uses identical to those of the adjacent stream or lake in addition to the beneficial uses recognized for wetlands (paragraph 004). These wetlands shall be protected for the beneficial uses of the adjacent stream or lake as assigned in Chapters 5 or 6 in addition to those identified for wetlands. Water quality criteria associated with assigned beneficial uses of adjacent waterbodies (Chapter 4) shall apply to surface-water overflow wetlands in addition to criteria associated with wetland beneficial uses. When numerical criteria associated with wetland aquatic life beneficial uses differ with aquatic life criteria associated with the adjacent stream or lake, the more stringent criteria shall apply.

003.02 Isolated Wetlands.

These are wetlands which have no regular or periodic surface water connection to an adjacent stream or lake. The source of water for these wetlands may be either ground water or surface runoff. These wetlands shall be protected for the beneficial uses recognized for wetlands (paragraph 004). Water quality criteria associated with wetland beneficial uses shall apply to isolated wetlands.

004 Beneficial Uses

Beneficial uses are assigned to wetlands within or bordering upon the State of Nebraska. Assigned beneficial uses are protected by the narrative and numerical water quality criteria listed or referenced in this chapter. Additionally, assigned and existing beneficial uses are protected by

the Antidegradation Clause in Chapter 3. Some uses require higher quality water than others. When multiple uses are assigned to the same wetland, all assigned uses will be protected.

Beneficial uses assigned to all wetlands are:

Aquatic Life

Wildlife

Agricultural Water Supply

Aesthetics

These uses are not intended in any way to conflict with the quantitative beneficial uses provided for in Neb. Rev. Stat., Ch 46, regulating irrigation or the authority of the Nebraska Department of Water Resources.

004.01 Aquatic Life

Wetlands assigned this beneficial use provide, or could provide, habitat capable of supporting aquatic biota on a regular or periodic basis. Aquatic biota are life forms which require water to fulfill basic life functions such as reproduction, growth, and development. Examples of aquatic biota include, but are not limited to, fish, macroinvertebrates, amphibians, and hydrophytic vegetation.

004.01A General Criteria

Water quality criteria are established to protect assigned beneficial uses. However, traditional water quality parameters in wetlands such as pH, temperature, dissolved oxygen, ammonia, and conductivity may naturally vary outside accepted ranges for other surface waters. Water quality criteria for specific wetlands or wetland complexes, except numerical criteria for toxic substances (paragraph 004.01C1), petroleum oil (paragraph 004.01D), and residual chlorine (paragraph 004.01E), shall be based on natural background values for traditional water quality parameters. However, these criteria shall be no more stringent than those associated with the Class B Warmwater Aquatic Life classification or the General Criteria for Aquatic Life of Chapter 4, Paragraphs 003.01A, 003.01B, and 003.04B.

004.01B Biological Criteria

The biological integrity of wetlands shall be maintained and protected. Any human activity causing water pollution which would significantly degrade the biological integrity of wetlands is a violation of these Standards. Upland soil and water conservation practices or normal farming, silviculture, and ranching activities involving tilling, seeding, cultivating, harvesting, and grazing for the production of food, fiber, and forest products, shall not be considered to cause significant degradation of biological integrity in wetlands. However, the criteria in section 004.01C for toxic substances are applicable to wetlands where such toxic substances are the result of activities listed within this subsection.

004.01B1 Any human activity causing water pollution which would cause a significant adverse impact to an identified "key species" is a violation of these Standards.

004.01B1a Key Species

Key aquatic species are identified endangered or threatened species. The following list defines the aquatic species considered by the Department to be key species. In addition to this list, any key species listed in Chapter 5 for a waterbody adjacent to a surface-water overflow wetland will be considered a key species for the wetland.

COMMON NAME	SCIENTIFIC NAME
Threatened Species:	
Western Prairie Fringed Orchid	*Platanthera praeclara*
Ute Lady Tresses	*Spiranthes diluvialis*

004.01C Toxic Substances

Wetlands shall be free from toxic substances, alone or in combination with other substances, in concentrations that result in acute or chronic toxicity to aquatic life, except as specified in Chapter 2. Toxic substances shall not be present in concentrations that result in bioaccumulation or biomagnification in aquatic organisms which renders them unsuitable or unsafe for consumption.

004.01C1 The following numerical criteria for the protection of aquatic life and their uses shall not be exceeded. Unless otherwise noted, criteria are based on total concentrations.

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Pesticides:			
Acrolein	68[a]	21[b]	107028
Alachlor	760[c]	76[d]	15972608
Aldrin	3.0[a]	0.00136[b,e]	309002
Atrazine	330[cc]	12[d]	1912249
BHC[1]	100[a]	0.414[b,e]	319868
Alpha-BHC	(Reserved)	0.131[b,e]	319846
Beta-BHC	(Reserved)	0.46[b,e]	319857
Chlordane	2.4[a]	0.0043[b]	57749
Chlorpyrifos	0.083[c]	0.041[d]	2921882
DCPA[3]	(Reserved)	14,300[d]	1861321
DDT[4]	1.1[a]	0.001[b]	50293
DDT metabolite (DDE)	1050[a]	0.0059[b,e]	72559
DDT metabolite (TDE, DDD)	0.6[a]	0.0084[b,e]	72548
Demeton	(Reserved)	0.1[b]	8065483
Dieldrin	0.24[a]	0.00144[b,e]	60571
Dioxin[5]	< 0.01[a]	< 0.00000014[b,c]	1746016
Alpha-Endosulfan	0.22[a]	0.056[b]	959988
Beta-Endosulfan	0.22[a]	0.056[b]	33213659
Endosulfan sulfate	(Reserved)	2,400[b,e]	1031078
Endrin	0.086[a]	0.036[b]	72208
Endrin aldehyde	(Reserved)	8.1[b,e]	7421934

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Guthion	(Reserved)	0.01[b]	86500
Heptachlor	0.52[a]	0.00214[b,e]	76448
Heptachlor epoxide	0.52[a]	0.0011[b,e]	1024573
Isophorone	117,000[a]	26,000[b,e]	78591
Lindane[2]	0.95[a]	0.16[b]	58899
Malathion	(Reserved)	0.1[b]	121755
Methoxychlor	(Reserved)	0.03[b]	72435
Metolachlor	390[c]	100[d]	51218452
Metribuzin	(Reserved)	100[d]	21087649
Mirex	(Reserved)	0.001[d]	2385855
Parathion	0.065[c]	0.013[d]	56382
Pentachlorophenol	$e^{(1.005(pH)-4.869)}$ [c]	$e^{(1.005(pH)-5.134)}$ [d]	87865
Propachlor	(Reserved)	8.0[d]	1918167
Toxaphene	0.73[c]	0.0002[d]	8001352
Metals and Inorganics[6]:			
Aluminum	750[c]	87[d]	7429905
Antimony	88[c]	30[d]	7440360
Arsenic	340[c]	16.7[b,e]	7440382
Beryllium	130[a]	5.3[d]	7440417
Cadmium[7]	$(ACF)e^{(1.128[\ln hardness]-1.6881)}$ [c]	$CCF)e^{(0.7852[\ln hardness]-1.2951)}$ [d]	7440439
Chromium (III)	$(0.316)e^{(0.819[\ln hardness]+3.7437)}$ [c]	$(0.860)e^{(.0819[\ln hardness]+1.561)}$ [d]	16065831
Chromium (VI)	309.3[c]	207.8[d]	18540299
Copper	$(0.960)e^{(0.9422[\ln hardness]-0.6289)}$ [c]	$(0.960)e^{(.08545[\ln hardness]-0.6305)}$ [d]	7440508
Cyanide	41[c]	10[d]	57125
Iron	(Reserved)	1,000[b]	7439896
Lead[8]	$(CF)e^{(1.273[\ln hardness]-1.460)}$ [c]	$(CF)e^{(1.273[\ln hardness]-4.705)}$ [d]	7439921
Mangenese	(Reserved)	1,000[b,e]	7439965
Mercury[9]	8.76[c]	0.012[d]	7439976
Nickel	$(0.998)e^{(0.846[\ln hardness]+4.0970)}$ [c]	$(0.997)e^{(0.846[\ln hardness]+1.9003)}$ [d]	7440020
Selenium[10]	20[c]	5.0[d]	7782492

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Silver	$(0.85)e^{(1.72[\ln hardness]-6.52)}$ [c]	(Reserved)	7440224
Thallium	1,400[a]	40[b]	7440280
Zinc	$(0.978)e^{(0.8473[\ln hardness]+3.1217)}$ [c]	$(0.986)e^{(0.8473[\ln hardness]+3.0227)}$ [d]	7440666
PCBs and Related Compounds:			
PCBs	2.0[a]	0.0017[b,e]	1336363
Chlorinated Naphthalenes	1,600[a]	43,000[b,e]	.....
Halogenated Aliphatics:			
Halomethanes	11,000[a]	157[b,e]	.....
Bromoform	(Reserved)	3,600[b,e]	75252
Methyl bromide	(Reserved)	40,000[b,e]	74839
Chloroform	28,900[a]	1,240[b]	67663
Carbon tetrachloride	35,200[a]	44.2[b,e]	56235
Methylene chloride	(Reserved)	16,000[b,e]	75092
1,2-dichloroethane	118,000[a]	986[b,e]	107062
Hexachloroethane	980[a]	89.5[b,e]	67721
Pentachloroethane	7,240[a]	1,100[b]	76017
Trichlorinated ethanes	18,000[a]	(Reserved)	25323891
1,1,2-trichloroethane	(Reserved)	419.9[b,e]	79005
Tetrachloroethanes	9,320[a]	(Reserved)	25322207
1,1,2,2-tetrachloroethane	(Reserved)	110[b,e]	79345
Dichloroethylenes	11,600[a]	(Reserved)	25323303
1,1-dichloroethylene	(Reserved)	32[b,e]	75354
1,2-trans-dichloroethylene	(Reserved)	1,400,000[b,e]	156605
Tetrachloroethylene	5,280[a]	88.5[b,e]	127184
Trichloroethylene	45,000[a]	810[b,e]	79016
Chlorodibromomethane	(Reserved)	340[b,e]	124481
Dichlorobromomethane	(Reserved)	460[b,e]	75274
Dichloropropane	23,000[a]	5,700[b]	26638197
1,2-dichloropropane	(Reserved)	390[b,e]	78875
Dichloropropene	6,060[a]	244[b]	26952238

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
1,3-dichloropropylene	(Reserved)	17,000[b,c]	542756
Hexachlorobutadiene	90[a]	9.3[b]	87683
Hexachlorocyclopentadiene	7.0[a]	5.2[b]	77474
Vinyl Chloride	(Reserved)	5,250[b,c]	75014
Ethers:			
Bis(2-chloroethyl)ether	(Reserved)	14[b,c]	111444
Bis(2-chloroisopropyl)ether	(Reserved)	1,700,000[b,c]	39638329
Bis chloromethyl ether	(Reserved)	0.0078[b,c]	542881
Chloroalkyl ethers	238,000[a]	(Reserved)	.....
Haloethers	360[a]	122[b]	.....
Monocyclic Aromatics except Phenols, Cresols, and Phthalates:			
Benzene	5,300[a]	712.8[b,c]	71432
Chlorinated benzenes	250[a]	50[b]	.....
Dichlorobenzenes	1,120[a]	763[b]	25321226
Ethylbenzene	32,000[a]	290,000[b,c]	100414
Hexachlorobenzene	6.0[a]	0.0077[b,c]	118741
Nitrobenzene	27,000[a]	19,000[b,c]	98953
Pentachlorobenzene	(Reserved)	41[b,c]	608935
1,2,4,5-tetrachlorobenzene	(Reserved)	29[b,c]	95943
1,2,4-trichlorobenzene	(Reserved)	9,400[b,c]	120821
Toluene	17,500[a]	2,000,000[b,c]	108883
2,4-dinitrotoluene	330[a]	91[b,c]	121142
Phenols and Cresols:			
Phenol	10,200[a]	2,560[b]	108952
2-chlorophenol	4,380[a]	4,000[b,c]	95578
3-methyl-4-chlorophenol	30[a]	(Reserved)	59507
2,4-dichlorophenol	2,020[a]	365[b]	120832
2,4,5-trichlorophenol	100[a]	63[b]	95954
2,4,6-trichlorophenol	(Reserved)	65[b,c]	88062
Dinitrophenols	(Reserved)	140,000[b,c]	25550587
Nitrophenols	230[a]	150[b]	.....

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
2-methyl-4,6-dinitrophenol	(Reserved)	7,650[b,e]	534521
2,4-dinitrophenol	(Reserved)	140,000[b,e]	51285
2,4-dimethylphenol	2,120[a]	23,000[b,e]	105679
Phthalate Esters:			
Phthalate esters	940[a]	3.0[b]	.....
Butylbenzyl phthalate	(Reserved)	52,000[b,e]	85687
Di-N-butyl phthalate	(Reserved)	120,000[b,e]	84742
Diethyl phthalate	(Reserved)	1,200,000[b,e]	84662
Di-2-ethylhexyl phthalate	2,000[a]	59.2[b,e]	117817
Dimethyl phthalate	(Reserved)	29,000,000[b,e]	131113
Polycyclic Aromatic Hydrocarbons (PAHs):			
Acenaphthene	1,700[a]	520[b]	83329
Anthracene	(Reserved)	1,100,000[b,e]	120127
Benzo(a)anthracene	(Reserved)	0.49[b,e]	56553
Benzo(a)pyrene	(Reserved)	0.49[b,e]	50328
Benzo(b)fluoranthene	(Reserved)	0.49[b,e]	205992
Benzo(k)fluoranthene	(Reserved)	0.49[b,e]	207089
Chrysene	(Reserved)	0.49[b,e]	218019
Dibenzo(a,h)anthracene	(Reserved)	0.49[b,e]	53703
Fluoranthene	3,980[a]	3,700[b,e]	206440
Fluorene	(Reserved)	140,000[b,e]	86737
Ideno(1,2,3-cd)pyrene	(Reserved)	0.49[b,e]	193395
Naphthalene	2,300[a]	620[b]	91203
2-chloronaphthalene	1,600[a]	43,000[b,e]	91587
Phenanthrene	30[a]	6.3[b]	85018
Pyrene	(Reserved)	110,000[b,e]	129000
Nitrosamines and other Nitrogen-containing Compounds:			
Nitrosamines	5,850[a]	12.4[b,e]	35576911
Benzidine	2,500[a]	0.00535[b,e]	92875
3,3-dichlorobenzidine	(Reserved)	0.77[b,e]	91941
1,2-diphenylhydrazine	270[a]	5.4[b,e]	122667

POLLUTANT	CRITERIA (ug/l) Acute	CRITERIA (ug/l) Chronic	CAS No.*
Acrylonitrile	7,550[a]	6.65[b,e]	107131
N-nitrosodibutylamine	(Reserved)	5.87[b,e]	924163
N-nitrosodiethylamine	(Reserved)	12.4[b,e]	55185
N-nitrosodimethylamine	(Reserved)	81[b,e]	62759
N-nitrosodiphenylamine	(Reserved)	160[b,e]	86306
N-nitrosodi-N-propylamine	(Reserved)	14.0[b,e]	621647
N-nitrosopyrrolidine	(Reserved)	919[b,e]	930552

[a] Concentration not to be exceeded at any time
[b] Twenty-four hour average concentration
[c] One-hour average concentration
[d] Four-day average concentration
[e] Human health criteria at the 10^{-5} risk level for carcinogens based on the consumption of fish and other aquatic organisms

[1] Benzene hexachloride or hexachlorocyclohexane
[2] Gamma-BHC
[3] Dimethyl tetrachloroterephthalate
[4] Dichlorodiphenyltrichloroethane
[5] 2,3,7,8-tetrachloro-dibenzo-p-dioxin or 2,3,7,8-TCDD
[6] Criteria for metals and inorganics apply to dissolved concentrations
[7] The conversion factors for cadmium are hardness dependent and defined by:

$$ACF = 1.136672 - [\ln \textit{hardness}\ (0.041838)]$$
$$CCF = 1.101672 - [\ln \textit{hardness}\ (0.041838)]$$

[8] The conversion factor for lead (acute and chronic) is hardness dependent and defined by:

$$CF = 1.46203 - [(\ln \textit{hardness})(0.145712)]$$

[9] Chronic criterion for mercury applies to total recoverable concentrations
[10] Criteria for selenium apply to total recoverable concentrations

004.01D Petroleum Oil.

Not to exceed 10 mg/l.

004.01E Residual Chlorine

004.01E1 One-hour average concentration not to exceed 39 ug/l.

004.01E2 Four-day average concentration not to exceed 23 ug/l.

004.02 Wildlife

Wetlands assigned this beneficial use provide, or could provide, habitat capable of supporting wildlife on a regular or periodic basis. Wildlife are undomesticated terrestrial or avian life forms which may utilize wetlands to support life functions such as watering, feeding, loafing, predator protection, and nesting. Examples of wildlife include, but are not limited to, furbearers, waterfowl, shorebirds, migratory birds, and reptiles.

004.02A General Criteria

Because wildlife utilizing wetlands rely on aquatic biota in many cases for food and habitat, general criteria and toxic criteria listed for the protection of aquatic life (paragraphs 004.01A and 004.01C) shall also apply for the protection of wildlife.

004.02B Biological Criteria

Any human activity causing water pollution which would cause a significant adverse impact to an identified "key species" is a violation of these Standards.

004.02B1 Key Species

Key wildlife species are identified endangered or threatened species. The following list defines the wildlife species considered by the Department to be key species.

COMMON NAME	SCIENTIFIC NAME
Endangered Species:	
Bald Eagle	*Haliaeetus leucocephalus*
Peregrine Falcon	*Falco peregrinus*
Eskimo Curlew	*Numenius borealis*
Whooping Crane	*Grus americana*
Interior Least Tern	*Sterna antillarum athalassos*
River Otter	*Lutra canadensis*
American Burying Beetle	*Nicrophorus americanus*
Threatened Species:	
Piping Plover	*Charadrius melodus*

004.03 Agricultural Water Supply

Wetlands assigned this beneficial use are used or have the potential to be used for general agricultural purposes (e.g., irrigation and livestock watering) without treatment. In some cases, however, natural background water quality may limit their use for agricultural purposes.

004.03A General Criteria

Wastes or toxic substances introduced directly or indirectly by human activity in concentrations that would degrade the use (i.e., would produce undesirable physiological effects in crops or livestock) shall not be allowed. Where natural background water quality limits the use of a wetland for agricultural purposes, water quality criteria for conductivity and selenium shall be based on the natural background condition.

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AUG 17 2000
SECRETARY OF STATE

004.03B Conductivity.

Not to exceed 2,000 umhos/cm between April 1 and September 30.

004.03C Nitrate and Nitrite as Nitrogen.

Not to exceed 100 mg/l.

004.03D Selenium.

Not to exceed 0.02mg/l.

004.04 Aesthetics.

This use applies to all wetlands of the state. To be aesthetically acceptable, wetlands shall be free from human-induced pollution which causes: 1) noxious odors; 2) floating, suspended, colloidal, or settleable materials that produce objectionable films, colors, turbidity, or deposits; and 3) the occurrence of undesirable or nuisance aquatic life (e.g., algal blooms). Wetlands shall also be free of junk, refuse, and discarded dead animals.

Enabling Legislation: Neb. Rev. Stat. §§ 81-1501(1) and 81-1505(1)(2)

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APPROVED
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ATTORNEY GENERAL
JUN 30 2000
BY
Assistant Attorney General

APPROVED
AUG 17 2000
MIKE JOHANNS
GOVERNOR

Effective Date: _____

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Title 117 - NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 8 - EFFECTIVE DATE

001 These rules and regulations shall become effective five days after filing with the Secretary of State.

Enabling Legislation: Neb. Rev. Stat. §§ 81-1505(17), 84-906

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