

**TITLE 785. OKLAHOMA WATER RESOURCES BOARD
CHAPTER 45. OKLAHOMA'S WATER QUALITY STANDARDS**

SUBCHAPTER 5. SURFACE WATER QUALITY STANDARDS

PART 3. BENEFICIAL USES AND CRITERIA TO PROTECT USES

785:45-5-12. Fish and wildlife propagation

(a) **List of subcategories.** The narrative and numerical criteria in this section are designed to maintain and protect the beneficial use classification of "Fish and Wildlife Propagation". This classification encompasses several subcategories which are capable of sustaining different climax communities of fish and shellfish. These subcategories are Habitat Limited Aquatic Community, Warm Water Aquatic Community, Cool Water Aquatic Community (Excluding Lake Waters), and Trout Fishery (Put and Take).

(b) **Habitat Limited Aquatic Community subcategory.**

(1) Habitat limited aquatic community means a subcategory of the beneficial use "Fish and Wildlife Propagation" where the water chemistry and habitat are not adequate to support a "Warm Water Aquatic Community" because:

(A) Naturally occurring water chemistry prevents the attainment of the use; or

(B) Naturally occurring ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of a sufficient volume of effluent to enable uses to be met; or

(C) Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or

(D) Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the waterbody to its original condition or to operate such modification in a way that would result in the attainment of the use; or

(E) Physical conditions related to the natural features of the waterbody, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of the "Warm Water Aquatic Community" beneficial use.

(2) Habitat Limited Aquatic Community may also be designated where controls more stringent than those required by sections 301(b) and 306 of the federal Clean Water Act as amended, which would be necessary to meet standards or criteria associated with the beneficial use subcategories of Cool Water Aquatic Community or Warm Water Aquatic Community, would result in substantial and widespread economic and social impact.

(c) **Warm Water Aquatic Community subcategory.** Warm Water Aquatic Community means a subcategory of the beneficial use category "Fish and Wildlife Propagation" where the water quality and habitat are adequate to support climax fish communities.

(d) **Cool Water Aquatic Community subcategory.** Cool Water Aquatic Community means a subcategory of the beneficial use category "Fish and Wildlife Propagation" where the water quality, water temperature and habitat are adequate to support cool water climax fish communities and includes an environment suitable for the full range of cool water benthos. Typical species may include smallmouth bass, certain darters and stoneflies.

(e) **Trout Fishery subcategory.** Trout Fishery (Put and Take) means a subcategory of the beneficial use category "Fish and Wildlife Propagation" where the water quality, water temperature and habitat are adequate to support a seasonal put and take trout fishery. Typical species may include trout.

(f) **Criteria used in protection of fish and wildlife propagation.** The narrative and numerical criteria to maintain and protect the use of "Fish and Wildlife Propagation" and its subcategories shall include:

(1) **Dissolved oxygen.**

(A) Dissolved oxygen (DO) criteria are designed to protect the diverse aquatic communities of Oklahoma.

(B) Allowable loadings designed to attain these dissolved oxygen criteria are provided as follows:

(i) For streams with sufficient historical data, the allowable load shall be based on meeting the dissolved oxygen concentration standard at the seven-day, two-year low flow and the appropriate seasonal temperatures prescribed in Table 1 of Appendix G of this Chapter.

(ii) For streams lacking sufficient historical data, or when the appropriate flow is less than one (1) cubic foot per second (cfs), the allowable load shall be based on meeting the dissolved oxygen concentration standard at one (1) cfs and the appropriate seasonal temperature.

(iii) Provided, for streams designated in OAC 785:45 Appendix A as HLAC or WWAC which have sufficient historical data as determined by the permitting authority, the allowable BOD load may be based upon meeting the dissolved oxygen concentration standard at the applicable seasonal temperature and corresponding seasonal seven-day, two-year low flow.

(iv) Provided further, in stream segments where dams or other structures have substantially affected the historic flow regime of the stream segment, including but not limited to the portions of the Verdigris and Arkansas Rivers constituting the McClellan-Kerr Arkansas River Navigation System, a properly designed and implemented site-specific hydrologic study approved by the permitting authority and the Board may be used to determine the appropriate regulatory low flow. In such circumstances, the allowable BOD load may be based upon meeting the dissolved oxygen concentration standard at the applicable seasonal temperature and the site-specific regulatory low flow.

(C) Except for naturally occurring conditions and as modified in (D) of this paragraph, the dissolved oxygen criteria are as set forth in Table 1 of Appendix G of this Chapter.

(D) For purposes of assessment, listing and reporting under sections 303(d) and 305(b) of the federal Clean Water Act as amended, the procedure for determining use support of the Fish and Wildlife Propagation beneficial use or any subcategory thereof with respect to dissolved oxygen shall be as follows:

(i) **General support test for all streams.** If more than two concentrations of DO in a stream are observed to be below 2.0 mg/L in any given year, the Fish and Wildlife Propagation beneficial use shall be deemed to be not supported.

(ii) **Support tests for HLAC streams.**

(l) The HLAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be fully supported with respect to the DO criterion if 10% or less of the samples from the stream are less than 4.0 mg/L from April 1 through June 15 and less than 3.0 mg/L during the remainder of the year.

- (II) The HLAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be not supported with respect to the DO criterion if more than 10% of the samples from the stream are less than 4.0 mg/L from April 1 through June 15 or less than 3.0 mg/L during the remainder of the year due to other than naturally occurring conditions.
- (iii) **Support tests for WWAC streams.**
- (I) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be fully supported with respect to the DO criterion if 10% or less of the samples from the stream are less than 6.0 mg/L from April 1 through June 15 and less than 5.0 mg/L during the remainder of the year.
- (II) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be undetermined with respect to the DO criterion if more than 10% of the samples from the stream are less than 6.0 mg/L and 10% or less of the samples are less than 5.0 mg/L from April 1 through June 15, or more than 10% of the samples are less than 5.0 mg/L and 10% or less of the samples are less than 4.0 mg/L from June 16 through October 15.
- (III) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be not supported with respect to the DO criterion if more than 10% of the samples from the stream are less than 5.0 mg/L from April 1 through June 15, or less than 4.0 mg/L from June 16 through October 15, or less than 5.0 mg/L from October 16 through March 31, due to other than naturally occurring conditions.
- (iv) **Support tests for CWAC and Trout streams.**
- (I) The CWAC or Trout subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be fully supported with respect to the DO criterion if 10% or less of the samples from the stream are less than 7.0 mg/L from March 1 through May 31 and less than 6.0 mg/L during the remainder of the year.
- (II) The CWAC or Trout subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be undetermined with respect to the DO criterion if more than 10% of the samples from the stream are less than 7.0 mg/L and 10% or less of the samples are less than 6.0 mg/L from March 1 through May 31, or more than 10% of the samples are less than 6.0 mg/L and 10% or less of the samples are less than 5.0 mg/L from June 1 through October 15.
- (III) The CWAC or Trout subcategory of the Fish and Wildlife Propagation beneficial use designated for a stream shall be deemed to be not supported with respect to the DO criterion if more than 10% of the samples from the stream are less than 6.0 mg/L from March 1 through May 31, or less than 5.0 mg/L from June 1 through October 15, or less than 6.0 mg/L from October 16

through the last day of February, due to other than naturally occurring conditions.

(v) **Support tests for WWAC lakes.** The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be fully supported with respect to the DO criterion if both the Surface and Water Column criteria prescribed in (vi)(I) and (vii)(I) of this subparagraph (D) are satisfied. If either of the Surface or Water Column criteria prescribed in (vi)(II) or (vii)(II) produce a result of undetermined, then the WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be undetermined with respect to the DO criterion; provided, if either of the Surface or Water Column criteria prescribed in (vi)(III) or (vii)(III) produce a result of not supported, then the WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be not supported with respect to the DO criterion.

(vi) **Surface criteria for WWAC lakes.**

(I) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be fully supported with respect to the DO criterion if 10% or less of the samples from the epilimnion during periods of thermal stratification, or the entire water column when no stratification is present, are less than 6.0 mg/L from April 1 through June 15 and less than 5.0 mg/L during the remainder of the year.

(II) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be undetermined with respect to the DO criterion if more than 10% of the samples from the epilimnion during periods of thermal stratification, or the entire water column when no stratification is present, are less than 5.0 mg/L and 10% or less of the samples are less than 4 mg/L from June 16 through October 15, or more than 10% of the samples from the surface are less than 6.0 mg/L and 10% or less of the samples are less than 5.0 mg/L from April 1 through June 15.

(III) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be not supported with respect to the DO criterion if more than 10% of the samples from the epilimnion during periods of thermal stratification, or the entire water column when no stratification is present, are less than 5.0 mg/L from April 1 through June 15 or less than 4.0 mg/L from June 16 through October 15, or less than 5.0 mg/L from October 16 through March 31, due to other than naturally occurring conditions.

(vii) **Water Column criteria for WWAC lakes.**

(I) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be fully supported during periods of thermal stratification with respect to the DO criterion if less than 50% of the volume (if volumetric data is available) or 50% or less of the water column (if no volumetric data is available) of all sample sites in the lake are less than 2.0 mg/L.

(II) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be undetermined during periods of thermal stratification with respect to the DO criterion if 50% or more, but not greater than 70%, of the water column at any given sample site in the lake is less than 2.0 mg/L due to other than naturally occurring conditions.

(III) The WWAC subcategory of the Fish and Wildlife Propagation beneficial use designated for a lake shall be deemed to be not supported during periods of thermal stratification with respect to the DO criterion if 50% or more of the water volume (if volumetric data is available) or more than 70% of the water column (if no volumetric data is available) at any given sample site is less than 2.0 mg/L.

(IV) If a lake specific study including historical analysis produces a support status which is contrary to an assessment obtained from the application of (I), (II) or (III) of (D)(vii) of this section, then that lake specific result will control.

(viii) **Additional application/exercise when support undetermined.** In instances where application of the tests in this subparagraph (D) initially produce a result that the pertinent subcategory is undetermined with respect to the DO criterion, such shall be subject to additional investigation that considers diurnal data for further application of such tests in order to resolve the determination of use support.

(2) **Temperature.**

(A) At no time shall heat be added to any surface water in excess of the amount that will raise the temperature of the receiving water more than 2.8°C outside the mixing zone.

(B) The normal daily and seasonal variations that were present before the addition of heat from other than natural sources shall be maintained.

(C) In streams, temperature determinations shall be made by averaging representative temperature measurements of the cross sectional area of the stream at the end of the mixing zone.

(D) In lakes, the temperature of the water column and/or epilimnion, if thermal stratification exists, shall not be raised more than 1.7°C above that which existed before the addition of heat of artificial origin, based upon the average of temperatures taken from the surface to the bottom of the lake, or surface to the bottom of the epilimnion if the lake is stratified.

(E) No heat of artificial origin shall be added that causes the receiving stream water temperature to exceed the maximums specified below:

(i) The critical temperature plus 2.8°C in warm water and habitat limited aquatic community streams and lakes except in the segment of the Arkansas River from Red Rock Creek to the headwaters of Keystone Reservoir where the maximum temperature shall not exceed 34.4°C.

(ii) 28.9°C in streams designated cool water aquatic community.

(iii) 20°C in streams designated trout fishery (put and take).

(F) Water in privately-owned reservoirs used in the process of cooling water for industrial purposes is exempt from these temperature restrictions, provided the water released from any such lake or reservoir into a stream system shall meet the water quality standards of the receiving stream.

- (3) **pH (hydrogen ion activity).** The pH values shall be between 6.5 and 9.0 in waters designated for fish and wildlife propagation; unless pH values outside that range are due to natural conditions.
- (4) **Oil and grease (petroleum and non-petroleum related).**
- (A) All waters having the designated beneficial use of any subcategory of fish and wildlife propagation shall be maintained free of oil and grease to prevent a visible sheen of oil or globules of oil or grease on or in the water.
- (B) Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of water courses or which cause deleterious effects to the biota.
- (5) **Biological Criteria.**
- (A) Aquatic life in all waterbodies with the beneficial use designation of Fish and Wildlife Propagation (excluding waters designated "Trout, put-and-take") shall not exhibit degraded conditions as indicated by one or both of the following:
- (i) comparative regional reference data from a station of reasonably similar watershed size or flow, habitat type and Fish and Wildlife beneficial use subcategory designation or
- (ii) by comparison with historical data from the waterbody being evaluated.
- (B) Compliance with the biological criteria to protect Fish and Wildlife Propagation set forth in this paragraph shall be based upon measures including, but not limited to, diversity, similarity, community structure, species tolerance, trophic structure, dominant species, indices of biotic integrity (IBI's), indices of well being (IWB's), or other measures.
- (6) **Toxic substances (for protection of fish and wildlife).**
- (A) Surface waters of the state shall not exhibit acute toxicity and shall not exhibit chronic toxicity outside the chronic regulatory mixing zone. Acute test failure and chronic test failure shall be used to determine discharger compliance with these narrative aquatic life toxics criteria. The narrative criterion specified in this subparagraph (A) which prohibits acute toxicity shall be maintained at all times and shall apply to all surface waters of the state. The narrative criterion specified in this subparagraph (A) which prohibits chronic toxicity shall apply at all times outside the chronic regulatory mixing zone and within the zone of passage to all waters of the state except:
- (i) When a discharge into surface waters designated with the Fish and Wildlife Propagation beneficial use complies with and meets the discharge permit limitations but the flow immediately upstream from the discharge is less than one (1) cubic foot per second or when the flow falls below the seven-day, two-year low-flow, whichever is larger. For purposes of the permitting process, the regulatory low flow shall be the larger of one (1) cubic foot per second or the seven-day, two-year low flow; and
- (ii) To streams listed as ephemeral in Appendix A.
- (B) Procedures to implement these narrative criteria are found in OAC 785:46 Subchapter 3.
- (C) Toxicants for which there are specific numerical criteria are listed in Table 2 of Appendix G of this Chapter.
- (D) For toxicants not specified in Table 2 of Appendix G of this Chapter, concentrations of toxic substances with bio-concentration factors of 5 or less shall not exceed 0.1 of published LC50 value(s) for sensitive representative

species using standard testing methods, giving consideration to site specific water quality characteristics.

(E) Concentrations of toxic substances with bio-concentration factors greater than 5 shall not exceed 0.01 of published LC50 value(s) for sensitive representative species using standard testing methods, giving consideration to site specific water quality characteristics.

(F) Permit limits to prevent toxicity caused by discharge of chlorine and ammonia are determined pursuant to the narrative criteria contained within (A) and (B) of this paragraph.

(G) The acute and chronic numerical criteria listed in the "Fish and Wildlife Propagation" column in Table 2 of Appendix G of this Chapter apply to all waters of the state designed with any of the beneficial use sub-categories of Fish and Wildlife Propagation. The numerical criteria which prohibit acute toxicity apply outside the acute regulatory mixing zone.

(i) The numerical criteria specified in Table 2 of Appendix G which prohibit chronic toxicity shall apply at all times outside the chronic regulatory mixing zone and within the zone of passage to all waters of the state except:

(I) When a discharge into surface waters designated with the Fish and Wildlife Propagation beneficial use complies with and meets the discharge permit limitations but the flow immediately upstream from the discharge is less than one (1) cubic foot per second or when the flow falls below the seven-day, two-year low-flow, whichever is larger. For purposes of the permitting process, the regulatory low flow shall be the larger of one (1) cubic foot per second or the seven-day, two-year low flow; and

(II) To streams listed as ephemeral in Appendix A.

(ii) Equations are presented in Table 2 of Appendix G for those substances whose toxicity varies with water chemistry. Metals listed in Table 2 of Appendix G are measured as total metals in the water column.

(H) For purposes of assessment per OAC 785:46-15-5, criteria for dissolved metals identified in Table 3 of Appendix G of this Chapter may be ascertained and implemented as an alternative to the total recoverable metals criteria set forth in Table 2 of Appendix G. Such dissolved metals criteria may be determined by multiplying the total recoverable numerical criteria in OAC 785:45 Appendix G, Table 2 by the conversion factors identified in Table 3 of Appendix G.

(7) **Turbidity.**

(A) Turbidity from other than natural sources shall be restricted to not exceed the following numerical limits:

(i) Cool Water Aquatic Community/Trout Fisheries: 10 NTUs;

(ii) Lakes: 25 NTUs; and

(iii) Other surface waters: 50 NTUs.

(B) In waters where background turbidity exceeds these values, turbidity from point sources shall be restricted to not exceed ambient levels.

(C) Numerical criteria listed in (A) of this paragraph apply only to seasonal base flow conditions.

(D) Elevated turbidity levels may be expected during, and for several days after, a runoff event.

(8) **Sediments.** Concentrations or loads of suspended or bedded sediments that are caused by human activity shall not impair the Fish and Wildlife Propagation use or any subcategory thereof.

785:45-5-13. Agriculture

(a) **General.** The surface waters of the State shall be maintained so that toxicity does not inhibit continued ingestion by livestock or irrigation of crops.

(b) **Definitions.** The following words and terms, when used in this Section, shall have the following meaning unless the context clearly indicates otherwise:

(1) **"Long term average concentration"** means the arithmetic mean of at least ten samples taken across at least twelve months.

(2) **"Short term average concentration"** means the arithmetic mean of all samples taken during any 30-day period.

(c) **Subcategories of the Agriculture beneficial use.**

(1) The narrative and numerical criteria stated or referenced in this section and in Appendix F of this chapter are designed to maintain and protect the beneficial use classification of "Agriculture". This classification encompasses two subcategories which are capable of sustaining different agricultural applications. These subcategories are Irrigation Agriculture and Livestock Agriculture.

(2) Irrigation Agriculture means a subcategory of the Agriculture beneficial use requiring water quality conditions that are dictated by individual crop tolerances.

(3) Livestock Agriculture is a subcategory of the Agriculture beneficial use requiring much less stringent protection than crop irrigation.

(4) If a waterbody is designated in Appendix A of this Chapter with the Agriculture beneficial use but does not have a designation of a subcategory thereof, the criteria for Irrigation Agriculture shall be applicable.

(d) **Highly saline water.** Highly saline water should be used with best management practices as outlined in "Diagnosis and Reclamation of Saline Soils," United States Department of Agriculture Handbook No. 60 (1958).

(e) **General criteria for the protection of Irrigation Agriculture.** This subsection prescribes general criteria to protect the Irrigation Agriculture subcategory. For chlorides, sulfates and total dissolved solids at 180°C (see Standard Methods), the arithmetic mean of the concentration of the samples taken for a year in a particular segment shall not exceed the historical "yearly mean standard" determined from the table in Appendix F of this Chapter. For permitting purposes, the long term average concentration shall not exceed the yearly mean standard. Yearly mean standards shall be implemented by the permitting authority using the greater of 1.47 cfs or long term average flows and complete mixing of effluent and receiving water. For permitting purposes, the short term average concentration shall not exceed the sample standard. Sample standards shall be implemented by the permitting authority using the greater of 1.0 cfs or short term average flows and complete mixing of effluent and receiving water. The data from sampling stations in each segment are averaged, and the mean chloride, sulfate, and total dissolved solids at 180°C are presented in Appendix F of this Chapter. Segment averages shall be used unless more appropriate data are available.

(f) **Historic concentrations.** The table in Appendix F of this Chapter contains statistical values from historical water quality data of mineral constituents. In cases where mineral content varies within a segment, the most pertinent data available should be used.

(g) **Criteria to protect Irrigation Agriculture subcategory.** For the purpose of protecting the Irrigation Agriculture subcategory, neither long term average concentrations nor short term average concentrations of minerals shall be required to be less than 700 mg/L for TDS, nor less than 250 mg/L for either chlorides or sulfates.

(h) **Criteria to protect Livestock Agriculture subcategory.** For the purpose of protecting the Livestock Agriculture subcategory, neither long term average concentrations nor short term average concentrations of minerals shall be required to be less than 2500 mg/L for TDS.

(i) **Support tests.** For purposes of assessment, listing and reporting under sections 303(d) and 305(b) of the federal Clean Water Act as amended, the procedure for determining use support of the Agriculture beneficial use or any subcategory thereof with respect to TDS, chlorides and sulfates shall be as follows:

(1) The Agriculture beneficial use designated for a waterbody shall be deemed to be fully supported with respect to TDS or chlorides or sulfates if both the mean of all sample concentrations calculated for that parameter from that waterbody do not exceed the yearly mean standard prescribed in OAC 785:45 Appendix F or site specific criteria prescribed in OAC 785:45 Appendix E, and no more than 10% of the sample concentrations from that waterbody exceed the sample standard prescribed in OAC 785:45 Appendix F or site specific criteria prescribed in OAC 785:45 Appendix E.

(2) The Agriculture beneficial use designated for a waterbody shall be deemed to be not supported with respect to TDS or chlorides or sulfates if either the mean of all sample concentrations calculated for that parameter from that waterbody exceeds the yearly mean standard prescribed in OAC 785:45 Appendix F or site specific criteria prescribed in OAC 785:45 Appendix E, or greater than 10% of the sample concentrations from that waterbody exceed the sample standard prescribed in Appendix F or site specific criteria prescribed in OAC 785:45 Appendix E. Provided, if the sample concentrations are each less than 700 mg/L for TDS, or less than 250 mg/L for either chlorides or sulfates, then the Agriculture beneficial use shall be deemed to be fully supported for that parameter.

785:45-5-19. Aesthetics

(a) To be aesthetically enjoyable, the surface waters of the state must be free from floating materials and suspended substances that produce objectionable color and turbidity.

(b) The water must also be free from noxious odors and tastes, from materials that settle to form objectionable deposits, and discharges that produce undesirable effects or are a nuisance to aquatic life.

(c) The following criteria apply to protect this use:

(1) **Color.** Surface waters of the state shall be virtually free from all coloring materials which produce an aesthetically unpleasant appearance. ~~For permitting purposes, color producing substances, from other than natural sources, shall be limited to concentrations equivalent to 70 Platinum-cobalt true color units.~~

(2) **Nutrients; numerical criterion applicable to waters designated Scenic Rivers.** The thirty (30) day geometric mean total phosphorus concentration in waters designated "Scenic River" in Appendix A of this Chapter shall not exceed 0.037 mg/L. The criterion stated in this subparagraph applies in addition to, and shall be construed so as to be consistent with, any other provision of this Chapter which may be applicable to such waters. Such criterion became effective July 1, 2002 and shall be implemented as authorized by state law through Water Quality Standards Implementation Plans and other rules, permits, settlement agreements, consent orders, compliance orders, compliance schedules or voluntary measures designed to achieve full compliance with the criterion in the stream by June 30, 2012.

785:45-5-20. Fish consumption

(a) **General.** The surface waters of the state shall be maintained so that toxicity does not inhibit ingestion of fish and shellfish by humans. The numerical criteria and values for substances listed in the column "Fish Consumption" in Table 2 of Appendix G of this Chapter shall apply to surface waters designated as Warm Water Aquatic Community, Cool Water Aquatic Community, or Trout Fishery.

(b) **Water column criteria to protect for the consumption of fish flesh.** The water column numerical criteria (total recoverable) identified in the "Fish Consumption" column in Table 2 of

Appendix G protect human health for the consumption of fish, shellfish and aquatic life. Water column numerical criteria to protect human health for human consumption of fish flesh are considered long term average standards. For purposes of permitting discharges for attainment of these standards, the permitting authority shall use long term average receiving stream flows and complete mixing of effluent and receiving water to determine appropriate permit limits.

(c) **Fish tissue levels.** Surface waters of the state shall be maintained to prevent bio-concentration of toxic substances in fish, shellfish, or other aquatic organisms to levels that become a risk to human health.

**APPENDIX A. DESIGNATED BENEFICIAL USES OF SURFACE WATERS
[REVOKED]**

APPENDIX A. DESIGNATED BENEFICIAL USES OF SURFACE WATERS [NEW]

(a) **Introduction.** The Tables in the following Appendices A.1 through A.7 identify certain waterbodies throughout the state of Oklahoma and designate beneficial uses for those waterbodies. The waterbodies are identified by their name (e.g., "Horse Creek") or other description (e.g., "Tributary of Lebos Creek at Sec. 2, T2N, R 26W, IM", "Red River from the Arkansas State Line to the Kiamichi River") and a Waterbody ID Number. The Waterbody ID numbers are used in the State of Oklahoma "Water Quality Assessment Integrated Report" published by the Oklahoma Department of Environmental Quality. The first digit of the Waterbody ID number indicates the basin number; the next three digits indicate the major drainage segment within that basin; the next two digits indicate the subdivision of the major drainage segment, the next two digits indicate a smaller section of that six digit basin, and the last four digits represent a hydrologic sequence of waterbodies, going from the most downstream point in the eight-digit watershed up to the furthest upstream point in the watershed. In some cases, two additional digits are added to indicate further delineations within the waterbody segment. Not all waterbodies have a Waterbody ID number, primarily due to limited resources and need. Where a specific Waterbody ID has not been assigned, the six-digit Water Quality Management Segment is listed until such time as the waterbody is assigned a specific Waterbody ID number. The Tables in Appendices A.1 through A.7 also set forth columns to show the beneficial uses or subcategories of uses which are designated for each identified waterbody.

(b) **Beneficial Use designations.** Designations of beneficial uses for a waterbody are reflected in the Tables in Appendices A.1 through A.7 by the presence of the following codes or a dot ("•") in the columns to the right of the waterbody name. An empty space in a column means that column's beneficial use or subcategory thereof is not designated for that waterbody.

- (1) EWS - Emergency Water Supply beneficial use
- (2) PPWS - Public and Private Water Supply beneficial use
- (3) F&W Prop. - Fish and Wildlife Propagation beneficial use
 - (A) WWAC - Warm Water Aquatic Community subcategory
 - (B) HLAC - Habitat Limited Aquatic Community subcategory
 - (C) CWAC - Cool Water Aquatic Community subcategory
 - (D) Trout - Trout Fishery (put and take) subcategory
- (4) Ag - Agriculture beneficial use
- (5) Rec - Recreation beneficial use
 - (A) PBCR - Primary Body Contact beneficial use
 - (B) SBCR - Secondary Body Contact beneficial use
- (6) Nav - Navigation beneficial use
- (7) Aes - Aesthetics beneficial use

A dot ("•") used in a column indicates that the beneficial use in that column's heading is designated for that waterbody without a more specific subcategory or other designation. The criteria to protect the beneficial uses are provided in Subchapter 5 and Appendix G of this Chapter.

(c) **Limitations for Additional Protection.**

- (1) Limitations for additional protection are described in 785:45-5-25.

(2) Waterbodies that are subject to limitations for additional protection in 785:45-5-25 are identified by the designation of any of the following codes in the "Limitations" column to the right of the waterbody's name:

- (A) "ORW" - indicates waters designated Outstanding Resource Waters;
- (B) "HQW" - indicates waters designated High Quality Waters; and
- (C) "SWS" - indicates waters designated Sensitive Public and Private Water Supplies.

(d) **Remarks used in Appendices A.1 through A.7.** The presence of any of the following footnotes in the "Remarks" column to the right of a waterbody's name denotes special circumstances which are applicable to that waterbody.

(1) A footnote (1) designates those streams for which further investigations are pending. Beneficial use designations for those streams are provided in Subchapter 5 of this Chapter.

(2) A footnote (2) indicates that criteria for the beneficial use of Primary Body Contact Recreation apply regardless of the recreation use designated.

(3) A footnote (3) excludes the Scenic River designation from that portion of Lee Creek necessary for a dam to be built in the State of Arkansas with a crest elevation of no more than the 420 foot MSL elevation according to plans, specifications and conditions contained in U.S. Army Corps of Engineer Permit WD-050-03-3541 and in the Federal Energy Regulatory Commission License for Project No. 5251-002, which were approved by the U.S. Environmental Protection Agency. Changes in water quality caused by the impoundment of water by said dam shall not constitute a violation of Oklahoma's Water Quality Standards.

(4) The remark "CSW" designates those waters identified as Culturally Significant Waters.

(5) The remark "NLW" designates a nutrient-limited watershed. Specific delineations of nutrient-limited watersheds are provided in 785:45-5-29.

**APPENDIX A.1
Designated Beneficial Uses of Surface Waters
Water Quality Management Basin 1, Middle Arkansas River**

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Arkansas River from mouth of Canadian River to the mouth of the Verdigris River including Webbers Falls Reservoir	120400010260, 120400010010, 120400010070, 121500010005	EWS	WWAC	•	PBCR	•	•		
Dirty Creek	120400020010	PPWS	WWAC	•	PBCR		•		
Tributary of Dirty Creek at SW 1/4, Sec. 31, T12N, R21E, IM	120400020015_00		HLAC	•	SBCR		•		
South Fork of Dirty Creek	120400020030		WWAC	•	PBCR		•		
East Pourum Creek at NE SE SE, Sec. 2, T10N, R19E, IM	120400020060		HLAC	•	SBCR		•		
Georges Fork	120400020110	EWS	WWAC	•	PBCR		•		
Tributary of Georges Fork at SE 1/4, Sec. 35, T12N, R19E, IM (Howland Creek)	120400020120_00	EWS	HLAC	•	SBCR		•		
Warner (Connors) Lake	120400020140	PPWS	WWAC	•	PBCR		•		
Tributary of Dirty Creek at SE 1/4, Sec. 1, T12N, R18E, IM	120400020250		WWAC	•	PBCR		•		
Lower Illinois River from headwater of Robert S. Kerr Reservoir to Tenkiller Dam	121700010010	PPWS	Trout	•	PBCR	•	•	HQW	
Upper Illinois River from Tenkiller Dam, including Tenkiller Lake upstream to Barren Fork confluence	121700020300_00, 121700020020, 121700020220	PPWS	CWAC	•	PBCR		•	HQW	NLW
Cato Creek	121700020090	PPWS	WWAC	•	PBCR		•		
Terrapin Creek	121700020130	PPWS	WWAC	•	PBCR		•		
Caney Creek	121700040010,	PPWS	CWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Negro Jake (Hollow) Creek	121700040020		CWAC		PBCR		•		
Park Hill Branch	121700020270		WWAC	•	PBCR		•		
Barren Fork from mouth upstream to Hwy. 59	121700020310, 121700050010, 121700050170_00	PPWS	CWAC	•	PBCR		•	ORW	Scenic River
North Mining Camp (Hollow) Creek	121700050040		CWAC		PBCR		•		
Tyner Creek	121700050090	PPWS	CWAC	•	PBCR		•	ORW	
Dennison Hollow	121700050110	PPWS	CWAC	•	PBCR		•	ORW	
Peacheater Creek	121700050120	PPWS	CWAC	•	PBCR		•	ORW	
Scraper Hollow	121700050130	PPWS	CWAC	•	PBCR		•	ORW	
England Hollow	121700050140	PPWS	CWAC	•	PBCR		•	ORW	
Green Creek	121700050150	PPWS	CWAC	•	PBCR		•	ORW	
Shell Branch	121700050180	PPWS	CWAC	•	PBCR		•	ORW	
(East) Peavine Creek	121700050190		CWAC		PBCR		•		
Barren Fork from Hwy. 59 to Arkansas State Line	121700050170_10	PPWS	CWAC	•	PBCR		•	ORW	
Evansville Creek	121700050200	PPWS	CWAC	•	PBCR		•	ORW	
Upper Illinois River upstream of Barren Fork confluence	121700020300_10, 121700030010, 121700030080, 121700030280, 121700030350	PPWS	CWAC	•	PBCR		•	ORW	Scenic River
Luna (Branch) Creek	121700030260		CWAC		PBCR		•		
Winset Hollow Creek	121700030230	PPWS	WWAC	•	PBCR		•		
Steely Hollow Creek	121700030120		CWAC		PBCR		•		
Tahlequah Creek (Town Branch)	121700030020, 121700030040	PPWS	CWAC	•	PBCR		•	ORW	
Flint Creek	121700030290, 121700060010_00, 121700060010_10	PPWS	CWAC	•	PBCR		•	ORW	Scenic River
Sager Creek	121700060080	PPWS	CWAC	•	PBCR		•	ORW	
Ballard Creek	121700030370	PPWS	CWAC	•	PBCR		•	ORW	

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Tributary of Arkansas River at Sec. 7, T12N, R21E, IM	120400010035_00		WWAC	•	PBCR		•		
Greenleaf Creek including Greenleaf Lake and Watershed	120400010110, 120400010120, 120400010130, 120400010140, 120400010150, 120400010160, 120400010170, 120400010180, 120400010190, 120400010200	PPWS	WWAC	•	PBCR		•	SWS	
Star (Oxbow) Lake	120400010230		WWAC	•	PBCR		•		
Sand Creek	120400010240		HLAC	•	SBCR		•		
Bayou Manard	120400010280	PPWS	WWAC	•	PBCR		•		
Coody Creek	120400010400	PPWS	WWAC	•	PBCR		•		
Grand River Main Stem (Grand Neosho River) from mouth to Kansas State Line, including Lake Hudson and (Grand) Lake O' the Cherokees but excluding Fort Gibson Lake	121600010010, 121600010040, 121600010280, 121600020010, 121600020020, 121600020140, 121600020170, 121600030020, 121600030030, 121600030040, 121600040010, 121600040120, 121600040220	PPWS	WWAC	•	PBCR		•		
Fort Gibson Lake	121600010050, 121600010200	PPWS	WWAC	•	PBCR		•		NLW
Ranger Creek	121600010060	PPWS	WWAC	•	PBCR		•		
Fourteen Mile Creek	121600010100	PPWS	CWAC	•	PBCR		•	HQW	
Black Bird Creek	121600010130	PPWS	CWAC	•	PBCR		•		
Double Springs Creek	121600010090	PPWS	WWAC	•	PBCR		•		
Clear Creek	121600010210	PPWS	CWAC	•	PBCR		•		
Spring Creek	121600010290	PPWS	CWAC	•	PBCR		•	HQW	
Snake Creek	121600010330		CWAC	•	PBCR		•	HQW	
Little Spring Creek	121600010340	PPWS	CWAC	•	PBCR		•	HQW	
Double Spring Creek	121600010390	PPWS	CWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Chouteau Creek	121600010430	PPWS	WWAC	•	PBCR		•		
Tributary of Chouteau Creek at SE 1/4, Sec.13, T20N, R18E, IM	121600010435_00		WWAC	•	SBCR		•		
Tributary of Chouteau Creek at SE 1/4, Sec. 29, T20N, R19E, IM	121600010432_00		HLAC	•	SBCR		•		
Pryor Creek downstream from the road crossing in Sec. 30, T21N, R19E, IM	121610000010, 121610000050_00		WWAC	•	PBCR		•		
Pryor Creek upstream from the road crossing in Sec. 30, T21N, R19E, IM to the road crossing in Sec. 12, T21N, R18E, IM	121610000050_10	PPWS	WWAC	•	PBCR		•		
Pryor Creek upstream from the road crossing in Sec. 12, T21N, R18E, IM	121610000090_00, 121610000090_10		WWAC	•	SBCR		•		
Crutchfield Branch	121600010440		WWAC	•	PBCR		•		
W.R. Holway Reservoir	121600020050	PPWS	WWAC	•	PBCR		•		
Saline Creek	121600020030	PPWS	CWAC	•	PBCR		•		
Little Saline Creek	121600020070	PPWS	CWAC	•	PBCR		•		
Horse Creek	121600030160	EWS	WWAC	•	PBCR		•		
Little Horse Creek	121600030190		WWAC		PBCR		•		
Spavinaw Creek below Spavinaw Lake dam	121600020150_00	PPWS	CWAC	•	PBCR		•		
Spavinaw Lake and watershed upstream of Spavinaw Lake dam	121600050020, 121600050030, 121600050040, 121600050050, 121600050060,	PPWS	CWAC	•	PBCR		•	SWS	NLW

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Eucha Lake and watershed	121600050060, 121600050070, 121600050080, 121600050090, 121600050100, 121600050110, 121600050120, 121600050130, 121600050150, 121600050170, 121600050180, 121600050190, 121600050200, 121600050210, 121600050220	PPWS	CWAC	•	PBCR		•	SWS	NLW
Brush Creek	121600050140	PPWS	CWAC	•	PBCR		•	HQW	
Beaty Creek	121600050160	PPWS	CWAC	•	PBCR		•	HQW	
Rock Creek	121600020180	PPWS	WWAC	•	PBCR		•		
Big Cabin Creek downstream from the road crossing in Sec. 10, T24N, R20E, IM	121600020190, 121600060010, 121600060060_00	PPWS	WWAC	•	PBCR		•		
Mustang Creek	121600060040		WWAC	•	PBCR		•		
Big Cabin Creek upstream from the road crossing in Sec. 10, T24N, R20E, IM to the road crossing in Sec. 8, T26N, R20E, IM	121600060060_10, 121600060220, 121600060300_00		WWAC	•	SBCR		•		
Little Cabin Creek	121600060080		WWAC	•	PBCR		•		
Bull Creek	121600060200		WWAC		PBCR		•		
Big Cabin Creek upstream from the road crossing in Sec. 8, T26N, R20E, IM	121600060300_10		WWAC	•	PBCR		•		
Drowning Creek	121600030090	PPWS	CWAC	•	PBCR		•		
Tributary of Muskrat Creek (Hollow) in Sec.36, T23N, R 23E, IM (Jay Creek)	121600030120_00		HLAC	•	SBCR		•		
Honey Creek	121600030445	PPWS	CWAC	•	PBCR		•	HQW	
Elm Creek	121600030310	PPWS	CWAC	•	PBCR		•		
Whitewater Creek	121600030320	PPWS	CWAC	•	PBCR		•		
Cave Springs Branch	121600030340	PPWS	CWAC	•	PBCR		•	HQW	
Elk River	121600030440	PPWS	CWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
(Council) Hollow Creek	121600030490	PPWS	CWAC	•	PBCR		•		
Sycamore Creek	121600030510	PPWS	CWAC	•	PBCR		•		
Brush Creek	121600030520	PPWS	CWAC	•	PBCR		•		
Lost Creek	121600030560	PPWS	CWAC	•	PBCR		•		
Spring River	121600070010	PPWS	CWAC	•	PBCR		•		
Shawnee Branch	121600070020	PPWS	CWAC	•	PBCR		•		
Flint Branch	121600070040	PPWS	CWAC	•	PBCR		•		
Warren Branch	121600070050	PPWS	CWAC	•	PBCR		•	HQW	
Devil's Hollow	121600070070	PPWS	CWAC	•	PBCR		•		
Five Mile Creek	121600070110	PPWS	CWAC	•	PBCR		•		
Hudson Creek	121600040040		WWAC	•	PBCR		•		
Tributary of Hudson Creek at SE 1/4, Sec. 30, T27N, R23E, IM	121600040043_00		HLAC	•	SBCR		•		
Tar Creek	121600040060		HLAC		SBCR				
Verdigris River from its mouth to Oologah Lake Dam	121500010010, 121500010060, 121500010200, 121500020010, 121500020120, 121500020260, 121500030010_00, 121500030010_10	PPWS	WWAC	•	PBCR	•	•		
Tributary of Verdigris River at SW 1/4, Sec. 20, T16N, R19E, IM(Okay Creek)	121500010280		HLAC	•	SBCR		•		
Coal Creek (near Wagoner)	121500010100	PPWS	WWAC	•	PBCR		•		
Tributary of Verdigris River at SE 1/4, Sec. 34, T17N, R17E, IM(Strawberry Creek)	121500010170		HLAC	•	SBCR		•		
Coal Creek	121500010270	PPWS	WWAC	•	PBCR		•		
Inola Creek	121500020110		WWAC	•	PBCR		•		
Pea Creek	121500020100		WWAC	•	PBCR		•		
Adams Creek	121500020150	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Salt Creek	121500020270		WWAC	•	SBCR		•		
Tributary of Salt Creek at NW 1/4, Sec. 1, T19N, R15E, IM	121500020275_00		HLAC	•	SBCR		•		
Dog Creek downstream from Lake Claremore	121500020360, 121500040010	PPWS	WWAC	•	PBCR		•		
Cat Creek	121500020390	EWS	WWAC	•	PBCR		•		
Tributary of Cat Creek at NW 1/4, Sec. 21, T21N, R16E, IM	121500	EWS	HLAC	•	SBCR		•		
Lake Claremore and Watershed	121500040010, 121500040020, 121500040030	PPWS	WWAC	•	PBCR		•	SWS	NLW
Chambers Creek	121500	EWS	HLAC	•	SBCR		•		
Mossy Creek	121500020430	EWS	HLAC	•	SBCR		•		
Spunky Creek	121500020480, 121500020470		WWAC	•	PBCR		•		
Tributary of Spunky Creek at Sec. 6, T19N, R15E	121500020500_00		HLAC	•	SBCR		•		
Tributary of Verdigris River at Sec. 28, T20N, R15E, IM	121500020465_00		HLAC	•	SBCR		•		
Bird Creek	121300010010, 121300020010, 121300030010	PPWS	WWAC	•	PBCR		•		
Mingo Creek	121300010030	EWS	WWAC	•	PBCR		•		
Unnamed tributary of Mingo Creek	121300010035_00	EWS	HLAC	•	SBCR		•		
Elm Creek	121300010020		WWAC		PBCR		•		
Owasso Creek	121300010055_00		HLAC	•	SBCR		•		
Tributary of Owasso Creek at SE1/4, Sec. 31, T21N, R14E, IM	121300010057_00		HLAC	•	SBCR		•		
Ranch Creek	121300010060		WWAC		PBCR		•		
Lake Yahola and Watershed	121300010130	PPWS	WWAC	•	PBCR		•	SWS	
Flat Rock Creek	121300010120		WWAC	•	SBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Tributary of Flat Rock Creek at SE 1/4, Sec. 18, T20N, R13E, IM (Dirty Butter Creek)	121300010140		HLAC	•	SBCR		•		
Delaware Creek	121300010150	PPWS	WWAC	•	PBCR		•		
Hominy Creek downstream from Skiatook Lake	121300040010, 121300040070	PPWS	WWAC	•	PBCR		•		
Hominy Creek upstream from and including Skiatook Lake	121300040070, 121300040080, 121300040280	PPWS	WWAC	•	PBCR		•	SWS	
Claremore Creek	121300040320	PPWS	WWAC	•	PBCR		•		
Hominy Municipal Lake and Watershed	121300040320, 121300040330	PPWS	WWAC	•	PBCR		•	SWS	
Candy Creek	121300020080	PPWS	WWAC	•	PBCR		•		
Pecan Hollow Creek	121300020090	PPWS	WWAC	•	PBCR		•	SWS	
Avant Public Utility Lake	121300020100	PPWS	WWAC	•	PBCR		•		
Waxoma Lake	121300020190	PPWS	WWAC	•	PBCR		•		
Tributary of Bird Creek at Sec. 19, T24N, R11E, IM	121300030070_00		HLAC	•	SBCR		•		
Birch Creek downstream from Birch Reservoir	121300030020	PPWS	WWAC	•	PBCR		•		
Birch Reservoir and Watershed	121300030020, 121300030030, 121300030040, 121300030050	PPWS	WWAC	•	PBCR		•	SWS	
Tributary of Birch Creek at Sec. 14, T24N, R9E, IM	121300030055_00		HLAC	•	SBCR		•	SWS	
Clear Creek	121300030200	PPWS	WWAC	•	PBCR		•		
Pawhuska Lake	121300030230	PPWS	WWAC	•	PBCR		•		
Bluestem Lake and Watershed	121300030280, 121300030290, 121300030300, 121300030310	PPWS	WWAC	•	PBCR		•	SWS	
Tributary of Verdigris River at Sec. 11, T21N, R15 E, IM (Keetonville Creek)	121500030050		HLAC	•	SBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Caney River from the mouth to the Kansas State Line	121400010010, 121400020010, 121400030010	PPWS	WWAC	•	PBCR		•		
Hulah Lake and watershed	121400030010, 121400030020, 121400030030, 121400030040, 121400030050, 121400030060, 121400030080, 121400030090, 121400030100, 121400030110, 121400030120, 121400030130, 121400030140, 121400030150, 121400030160, 121400030170, 121400030180, 121400030190, 121400030200	PPWS	WWAC	•	PBCR		•		NLW
Rabb Creek	121400010090	PPWS	WWAC	•	PBCR		•		
Nellie Bly Creek	121400010180	PPWS	WWAC	•	PBCR		•		
Hogshooter Creek	121400010300		WWAC		PBCR		•		
Keeler Creek	121400010320		WWAC	•	PBCR		•		
Tributary of Keeler Creek at NW 1/4 Sec. 19, T25N, R13E, IM (East Keeler Creek)	121400010322		HLAC	•	SBCR		•		
Sand Creek	121400040010	PPWS	WWAC	•	PBCR		•		
Buck Creek	121400040050	PPWS	WWAC	•	PBCR		•		
Coon Creek	121400020040	PPWS	WWAC	•	PBCR		•		
Deer Creek	121400020050		WWAC	•	PBCR		•		
Lake Hudson on Butler Creek	121400020090	PPWS	WWAC	•	PBCR		•		
Little Caney River including Copan Lake and Watershed	121400020140, 121400050010, 121400050020, 121400050030, 121400050040, 121400050050, 121400050060, 121400050070, 121400050080	PPWS	WWAC	•	PBCR		•	SWS	
Pond Creek	121400030090	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Buck Creek	121400030170	PPWS	WWAC	•	PBCR		•		
Fourmile Creek	121500030070		WWAC	•	PBCR		•		
Verdigris River from and including Oologah Lake to the Kansas State Line	121510010010, 121510010020, 121510020010	PPWS	WWAC	•	PBCR	•	•		
Blue Creek	121510010030	PPWS	WWAC	•	PBCR		•		
Spencer Creek including Chelsea Reservoir and Watershed	121510010040, 121510010060	PPWS	WWAC	•	PBCR		•	SWS	
Lightning Creek	121510010130	PPWS	WWAC	•	PBCR		•		
Salt Creek	121510010190	PPWS	WWAC	•	PBCR		•		
Big Creek	121510030010	PPWS	WWAC	•	PBCR		•		
California Creek	121510020050	PPWS	WWAC	•	PBCR		•		
Tributary to Oologah Lake NW 1/4, Sec. 5, T26N, R16E, IM (Delaware Creek)	121510020060	EWS	HLAC	•	SBCR		•		
Snow Creek	121510020250	PPWS	WWAC	•	PBCR		•		
Onion Creek	121510020340	PPWS	WWAC	•	PBCR		•		
Arkansas River from mouth of Verdigris River to Keystone Dam	120410010010, 120410010080_00, 120410010080_10, 120420010010_00, 120420010010_10, 120420010130	EWS	WWAC	•	SBCR	•	•		(2)
Pecan Creek	120410010030	PPWS	WWAC	•	PBCR		•		
Cloud Creek	120410010100, 120410020010	PPWS	WWAC	•	PBCR		•		
Ash Creek	120410010110	PPWS	WWAC	•	PBCR		•		
Mountain Creek including Bixhoma Lake	120410010180	PPWS	WWAC	•	PBCR		•		
Snake Creek	120410010220	PPWS	WWAC	•	PBCR		•		
Rock Creek	120410030020	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Lake Boren	120410030080	PPWS	WWAC	•	PBCR		•		
Posey Creek	120420010030		WWAC	•	PBCR		•		
Polecat Creek downstream from Heyburn Lake	120420020050_00, 120420020050_10, 120420020290		WWAC	•	PBCR		•		
Coal Creek downstream from Sec. 35, T18N, R12E, IM	120420020030_00	PPWS	WWAC	•	PBCR		•		
Coal Creek upstream from Sec. 35, T18N, R12E, IM	120420020030_10	PPWS	HLAC	•	PBCR		•		
Rock Creek downstream from Sahoma Lake	120420020060, 120420020120		WWAC	•	PBCR		•		
Country Club Lake (Middle Lake)	120420020090	PPWS	WWAC	•	PBCR		•		
Sapulpa Lake	120420020110	PPWS	WWAC	•	PBCR		•		
Childress Creek	120420020160		HLAC	•	SBCR		•		
Jackson Creek	120420020200	PPWS	WWAC	•	PBCR		•		
Little Polecat Creek	120420020260		WWAC	•	SBCR		•		
Sahoma Lake and Watershed	120420020120, 120420020130, 120420020140	PPWS	WWAC	•	PBCR		•	SWS	
Heyburn Lake and Watershed	120420020290, 120420020300, 120420020310, 120420020320, 120420020330, 120420020340, 120420020350, 120420020360, 120420020370, 120420020380, 120420020390, 120420020400, 120420020410	PPWS	WWAC	•	PBCR		•	SWS	
Shell Creek downstream from Shell Lake	120420010230	PPWS	WWAC	•	PBCR		•		
Shell (Creek) Lake and Watershed	120420010230, 120420010240 120420010250, 120420010260, 120420010270	PPWS	WWAC	•	PBCR		•	SWS	

APPENDIX A.2
Designated Beneficial Uses of Surface Waters
Water Quality Management Basin 2, Lower Arkansas River Basin

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Arkansas River from the Arkansas State Line to the mouth of the Canadian River including R.S. Kerr Reservoir	220200010010, 220200020010, 220200020020	PPWS	WWAC	•	PBCR	•	•		
Lee Creek downstream from the 420 ft. elevation level	220200050010_00	PPWS	CWAC	•	PBCR		•	HQW	HQW
Lee Creek upstream from the 420 ft. elevation level	220200050010_10	PPWS	CWAC	•	PBCR		•	ORW	Scenic River(3)
Webber(s) Creek	220200050020	PPWS	CWAC	•	PBCR		•	ORW	
Briar Creek (Bear Creek)	220200050030	PPWS	CWAC	•	PBCR		•	ORW	
Little Lee Creek	220200050040	PPWS	CWAC	•	PBCR		•	ORW	Scenic River
Jenkins Creek	220200050050	PPWS	CWAC	•	PBCR		•	ORW	
Poteau River downstream from Brazil Creek	220100010010	PPWS	WWAC	•	PBCR		•		
Tributary of Cedar Creek at Sec. 8, T9N, R27E, IM	220100010030		WWAC	•	PBCR		•		
Hoil-Tuska Creek including New Spiro Lake	220100010050	PPWS	WWAC	•	PBCR		•	SWS	NLW
James Fork	220100010070	PPWS	WWAC	•	PBCR		•		
Brazil Creek	220100030010	PPWS	WWAC	•	PBCR		•		
Red Oak Pit	220100	PPWS	WWAC	•	PBCR		•		
Poteau River upstream from Brazil Creek	220100010010, 220100020010_10	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Wister Lake and watershed	220100020010, 220100020020, 220100020030, 220100020040, 220100020050, 220100020070, 220100020080, 220100020090, 220100020100, 220100020110, 220100040010, 220100040020, 220100040030, 220100040040, 220100040050, 220100040060, 220100040070, 220100040080, 220100040090, 220100040110, 220100040120, 220100040160, 220100040170, 220100040180	PPWS	WWAC	•	PBCR		•		NLW
Riddle Creek	220100010120		HLAC	•	SBCR		•		
Tributary of Riddle Creek at SE 1/4 Sec. 4, T07N, R26E, IM (Cameron Creek)	220100010130		HLAC	•	SBCR		•		
Sugarloaf Creek	220100010160	PPWS	WWAC	•	PBCR		•		
Morris Creek	220100010170		WWAC	•	PBCR		•		
Caston Creek	220100010180	PPWS	WWAC	•	PBCR		•		
Coal Creek	220100010200	EWS	WWAC	•	PBCR		•		
Fourche Maline Creek including Lake Wayne Wallace	220100040010, 220100040020, 220100040150	PPWS	WWAC	•	PBCR		•		
Little Fourche Maline Creek	220100040070	PPWS	WWAC	•	PBCR		•		
Red Oak Creek	220100040050		WWAC		PBCR		•		
Bandy Creek	220100040080		WWAC	•	PBCR		•		
Tributary of Bandy Creek at NE 1/4, Sec. 17, T5N, R19E, IM	220100		WWAC	•	SBCR		•		
Lloyd Church Lake and Watershed	220100040090, 220100040100	PPWS	WWAC	•	PBCR		•	SWS	
Tributary to Bandy Creek (Cunneo Bandy)	220100040090	PPWS	WWAC	•	PBCR		•		
Tributary of Fourche Maline Creek at SE 1/4, Sec. 12, T5N, R19E, IM	220100040110		HLAC	•	SBCR		•		
Coon Creek Lake and Watershed	220100040120, 220100040130	PPWS	WWAC	•	PBCR		•	SWS	

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Lake Wayne Wallace	220100040150	PPWS	WWAC	•	PBCR		•		
Black Fork downstream from Cedar Creek	220100020030, 220100020040	PPWS	WWAC	•	PBCR		•		
Black Fork upstream from Cedar Creek	220100020040	PPWS	CWAC	•	PBCR		•	HQW	
Cedar Creek including Cedar Lake	220100020050, 220100020060	PPWS	WWAC	•	PBCR		•		
Shawnee Creek	220100020070	PPWS	WWAC	•	PBCR		•		
Big Creek	220100020080	PPWS	CWAC	•	PBCR		•		
Tributary of Big Creek at NE 1/4, Sec. 22, T3N, R26E, IM	220100020090	EWS	WWAC	•	PBCR		•		
Oil Branch	220100020100		WWAC	•	PBCR		•		
Garrison Creek	220200050060	PPWS	WWAC	•	PBCR		•		
Unnamed tributary of Garrison Creek at sect.18, T11N, R27E, IM	220200050070_00		HLAC		SBCR		•		
Camp Creek	220200010020	PPWS	CWAC	•	PBCR		•		
Big Skin Bayou Creek	220200010030	PPWS	WWAC	•	PBCR		•		
Muldrow City Lake	220200010025_00	PPWS	WWAC	•	PBCR		•		
Cache Creek	220200010060	PPWS	WWAC	•	PBCR		•		
Onion Creek	220200010100		HLAC	•	SBCR		•		
Sans Bois Creek	220200040010	PPWS	WWAC	•	PBCR		•		
Lake John Wells and Watershed	220200040030	PPWS	WWAC	•	PBCR		•	SWS	
Beaver Creek	220200040060	EWS	WWAC	•	PBCR		•		
Sallisaw Creek downstream from U.S. Hwy. 64	220200030010_10	PPWS	CWAC	•	PBCR		•		
Shilo(h) Branch	220200030020		WWAC	•	PBCR		•		
Tributary of Shilo Branch at SW 1/4, Sec. 1, T11N, R23E, IM	220200030035_00		HLAC	•	SBCR		•		
Little Sallisaw Creek (Cedar Creek)	220200020040	PPWS	WWAC	•	PBCR		•		
Sallisaw Creek upstream from U.S. Hwy 64	220200030010_10, 220200030010_20, 220200030010_30	PPWS	CWAC	•	PBCR		•	HQW	
Stillwell City Lake	220200030120	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Brushy Creek downstream from Brushy (Creek) Reservoir	220200030030	PPWS	CWAC	•	PBCR		•		
Brushy (Creek) Reservoir and Watershed	220200030030, 220200030040, 220200030050	PPWS	CWAC	•	PBCR		•	SWS	
Greasy Creek	220200030080	PPWS	CWAC	•	PBCR		•		
Vian Creek	220200020130	PPWS	CWAC	•	PBCR		•		
Little Vian Creek	220200020140	PPWS	CWAC	•	PBCR		•		
Canadian River from mouth to Eufaula Lake Dam	220300000010	PPWS	WWAC	•	PBCR	•	•		
Taloka Creek	220300000020	PPWS	WWAC	•	PBCR		•		
Snake Creek	220300000030		WWAC	•	SBCR		•		
Emachaya Creek	220300000040	PPWS	WWAC	•	PBCR		•		
Canadian River including Eufaula Lake (excluding the North Canadian River) to its confluence with Little River	, 220300010020, 220600040050, 220600010060, 220600010119, 220600050010	PPWS	WWAC	•	PBCR		•		
Mud Creek	220600050060	PPWS	WWAC	•	PBCR		•		
Longtown Creek	220600010070	PPWS	WWAC	•	PBCR		•		
Gibson Creek	220600050020		HLAC	•	SBCR		•		
Tributary of Gibson Creek at NW NW Sec.18,T8N,R16E, IM	220600050023_00		HLAC	•	SBCR		•		
Gaines Creek	220600040010	PPWS	WWAC	•	PBCR		•		
Coal Creek	220600020010	PPWS	WWAC	•	PBCR		•		
Talawanda Lakes #1 and #2	220600020050, 220600020060	PPWS	WWAC	•	PBCR		•		
Lake McAlester and Watershed	220600020020, 220600020030	PPWS	WWAC	•	PBCR		•	SWS	
Deer Creek	220600020080		WWAC	•	PBCR		•		
Sandy Creek	220600020090		WWAC	•	SBCR		•		
Tributary of Sandy Creek at NW 1/4, Sec. 3, T5N, R14E, IM	220600020093_00		WWAC	•	SBCR		•		
Tributary of Coal Creek at SW NW SW Sec. 18, T5N, R12E, IM	220600		HLAC	•	SBCR		•		
Ash Creek	220600050040	PPWS	WWAC	•	PCBR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Mud Creek	220600050060		WWAC	•	PBCR		•		
Brushy Creek	220600030010	PPWS	WWAC	•	PBCR		•		
Blue Creek	220600030020	PPWS	WWAC	•	PBCR		•		
Peaceable Creek	220600030050	PPWS	WWAC	•	PBCR		•		
Chun Creek upstream from Sec. 15, T4N, R14E, IM	220600030060_10	EWS	WWAC	•	SBCR		•		
Tributary of Chun Creek at SW 1/4, Sec. 16, T4N, R14E, IM	220600030065_00		HLAC	•	SBCR		•		
Chun Creek in and downstream from Sec. 15, T4N, R14E, IM	220600030060_00	EWS	WWAC	•	PBCR		•		
Bull Creek downstream from Brown Lake	220600030080		WWAC	•	PBCR		•		
Brown Lake and Watershed	220600030080, 220600030090	PPWS	WWAC	•	PBCR		•	SWS	
Mill Creek	220600010100_10, 220600010100_20	PPWS	WWAC	•	PBCR		•		
Big Creek	220600010170		WWAC	•	PBCR		•		
Unnamed tributary of Canadian River at SE 1/4, Sec. 22, T6N, R10E, IM	220600010128_00		HLAC	•	SBCR		•		

APPENDIX A.3
Designated Beneficial Uses of Surface Waters
Water Quality Management Basin 3, Upper Red River Basin

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Lake Texoma	311100010020, 311100010030, 311100010080, 310800010011, 310800010050	PPWS	WWAC	•	PBCR		•		
Glasses Creek including Carter Lake	310800010020, 310080010040	PPWS	WWAC	•	PBCR		•		
Tributary at Old Channel Washita, NE 1/4, Sec. 33, T5S, R7E, IM	310800010055_00	EWS	HLAC	•	SBCR		•		
Pennington Creek	310800010120	PPWS	CWAC	•	PBCR		•	HQW	
Spring Creek	310800010160	PPWS	WWAC	•	PBCR		•		
Mill Creek	310800010190	PPWS	WWAC	•	PBCR		•		
Tributary of Three Mile Creek at SW Sec. 7, T2S, R5E, IM to SE Sec. 12, T2S, R4E	310800010205		HLAC	•	SBCR		•		
Washita River upstream from the headwaters of Lake Texoma including Foss Reservoir	310800010010, 310800020010, 310810010010, 310810020010, 310820010010, 310830010010, 310830020010, 310830030010, 310840010010, 310840010020, 310840020010	PPWS	WWAC	•	PBCR		•		
Cool Creek	310800020010	PPWS	WWAC	•	PBCR		•		
Oil Creek	310800010240	PPWS	WWAC	•	PBCR		•		
Caddo Creek	310800030010	PPWS	WWAC	•	PBCR		•		
Sand Creek	310800030020		WWAC	•	PBCR		•		
Unnamed tributary to Caddo Creek	310800030035		HLAC		SBCR				
Ardmore City Lake	310800030070		WWAC	•	PBCR		•		
Rock Creek downstream from Lake Scott King Dam	310800030100	PPWS	WWAC	•	PBCR		•		
Lake Scott King (Rock Creek Reservoir) including Watershed	310800030100, 310800030110, 310800030120	PPWS	WWAC	•	PBCR		•	SWS	
Lake Jean Neustadt	310800030140	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Hickory Creek downstream from Mountain Lake	310800030190_00	PPWS	WWAC	•	PBCR		•		
Mountain Lake and Watershed	310800030190, 310800030200, 310800030210	PPWS	WWAC	•	PBCR		•	SWS	
Rock Creek including Lake of the Arbuckles	310800020080, 310800020090, 310800020100, 310800020122	PPWS	WWAC	•	PBCR		•	SWS	
Guy Sandy Creek	310800020130	PPWS	WWAC	•	PBCR		•	HQW	
Falls Creek	310800020140	PPWS	WWAC	•	PBCR		•		
Dry Sandy Creek	310800020150	PPWS	WWAC	•	PBCR		•		
Tributary of Dry Sandy Creek at Sec. 7, T1S, R2E, IM	310800020152_00		HLAC	•	SBCR		•		
Honey Creek	310800020160	PPWS	WWAC	•	PBCR		•	HQW	
Chigley Sandy Creek	310800020190	PPWS	WWAC	•	PBCR		•		
Wildhorse Creek	310810010020, 310810030010, 310810040010, 310810040140	PPWS	WWAC	•	PBCR		•		
Sandy Creek	3108100030020	PPWS	WWAC	•	PBCR		•		
Rock Creek	310810030040	PPWS	WWAC	•	PBCR		•		
Elmore City Lake	310810030060	PPWS	WWAC	•	PBCR		•		
Salt Creek	310810030080	PPWS	WWAC	•	PBCR		•		
Black Bear Creek downstream from Lake Fuqua	310810040030, 310810040040	PPWS	WWAC	•	PBCR		•		
Lake Fuqua and Watershed	310810040030, 310810040040, 310810040050	PPWS	WWAC	•	PBCR		•	SWS	
Duncan Lake and Watershed	310810040070, 310810040080, 310810040090	PPWS	WWAC	•	PBCR		•	SWS	
Clear Creek downstream from Clear Creek Lake	310810040130	PPWS	WWAC	•	PBCR		•		
Clear Creek Lake and Watershed	310810040110, 310810040120, 310810040130	PPWS	WWAC	•	PBCR		•	SWS	
Lake Humphreys and Watershed	310810040140, 310810040150, 310810040160	PPWS	WWAC	•	PBCR		•	SWS	

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Kickapoo Sandy Creek	310810010050	PPWS	WWAC	•	PBCR		•		
Turkey Sandy Creek	310810010060		WWAC	•	PBCR		•		
Tributary of Turkey Sandy Creek at SE 1/4, Sec. 26, T2N, R1E, IM	310810010062_00		WWAC	•	PBCR		•		
W. Sandy Creek (upper) upstream from Sec. 34, T2N, R1E, IM	310810010065_10		HLAC	•	SBCR		•		
W. Sandy Creek (lower) downstream from Sec. 27, T2N, R1E, IM	310810010065_00		WWAC	•	PBCR		•		
Red Branch	310810010070		WWAC	•	SBCR		•		
Rush Creek downstream from U.S. Hwy. 77 near Pauls Valley	310810010090_00		WWAC	•	SBCR		•		
Rush Creek upstream from U.S. Hwy. 77 near Pauls Valley	310810010090_10, 310810050010		WWAC	•	PBCR		•		
Taylor (Marlow) Lake near Rush Springs	310810050060	PPWS	WWAC	•	PBCR		•		NLW
Cherokee Sandy Creek	310810010100	PPWS	WWAC	•	PBCR		•		
R. C. Longmire Lake	310810010186		WWAC	•	PBCR		•		
Peavine Creek	310810010120	PPWS	WWAC	•	PBCR		•		
Washington Creek	310810010170, 310810010190	PPWS	WWAC	•	PBCR		•		
Pauls Valley Lake and Watershed	310810010170, 310810010180, 310810010190	PPWS	WWAC	•	PBCR		•	SWS	
Owl Creek	310810010200		WWAC	•	PBCR		•		
Wiley Post Memorial Lake	310810010220	PPWS	WWAC	•	PBCR		•		
Beef Creek	310810010230	EWS	HLAC	•	SBCR		•		
Tributary of Beef Creek at SE 1/4, Sec.15, T4N, R2W, IM	310810010232_00	EWS	HLAC	•	SBCR		•		
Finn Creek	310810020020	PPWS	WWAC	•	PBCR		•		
Criner Creek	310810020050	PPWS	WWAC	•	PBCR		•		
Colbert Creek	310810020160	PPWS	WWAC	•	PBCR		•		
Roaring Creek	310810020170	PPWS	WWAC	•	PBCR		•		
East Roaring Creek	310810020180		WWAC		PBCR		•		
Laflin Creek	310810020200	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Winter Creek	310810020220	PPWS	WWAC	•	PBCR		•		
Little Washita River	310820020010	PPWS	WWAC	•	PBCR		•		
Lake Burtschi	310800020070		WWAC	•	PBCR		•		
Gladys Creek downstream from U.S. Hwy. 277	310820020150_00		HLAC	•	SBCR		•		
Gladys Creek upstream from U.S. Hwy. 277	310820020150_10	PPWS	WWAC	•	PBCR		•		
Bitter Creek	310820010030	PPWS	WWAC	•	PBCR		•		
East Fork of Bitter Creek	310820010040	PPWS	WWAC	•	PBCR		•		
West Fork of Bitter Creek	310820010060	PPWS	WWAC	•	PBCR		•		
Tributary of Washita River at NE 1/4, Sec. 35, T7N, R7W, IM	310820		HLAC	•	SBCR		•		
Ionine Creek	310820010160	PPWS	WWAC	•	PBCR		•		
Jack Hollow Creek	310820010170	PPWS	WWAC	•	PBCR		•		
Spring Creek including Lake Chickasha	310830040010, 310830040020	PPWS	WWAC	•	PBCR		•		NLW
Stinking Creek	310830040030	PPWS	WWAC	•	PBCR		•		
Delaware Creek	310830010030		WWAC	•	SBCR		•		
Sugar Creek	310830050010		WWAC	•	SBCR		•		
Tributary of Sugar Creek at NW 1/4, Sec. 29, T11N, R11W, IM	310830		HLAC	•	SBCR		•		
Cobb Creek downstream from Fort Cobb Reservoir	310830060010	PPWS	WWAC	•	PBCR		•		
Fort Cobb Lake and Watershed including Crowder Lake and watershed	310830060010, 310830060020, 310830060030, 310830060040, 310830060050, 310830060060, 310830060070, 310830060080, 310830060090, 310830060100, 310830060110, 310830060120, 310830060130, 310830060140	PPWS	WWAC	•	PBCR		•	SWS	NLW
Lake Creek	310830060040	PPWS	WWAC	•	PBCR		•	SWS	
Stinking Creek	310830020020	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
9 Rainy Mountain Creek downstream from S.H.	310830020060_00		WWAC	•	PBCR		•		
Rainy Mountain Creek upstream from S.H. 9	310830020060_10		WWAC	•	SBCR		•		
Oak Creek	310830020090	PPWS	WWAC	•	PBCR		•		
Lake Vanderwork and watershed	310830020100, 310830020110		WWAC	•	PBCR		•		NLW
Two Baby Creek	310830030060		WWAC	•	PBCR		•		
Cavalry Creek	310830030070	PPWS	WWAC	•	PBCR		•		
South Fork of Cavalry Creek	310830030080		WWAC	•	PBCR		•		
N. Cavalry Creek	310830030090	EWS	HLAC	•	SBCR		•		
Tributary to N. Cavalry Creek at NW 1/4, Sec. 11, T9N, R17W, IM	310830030095_00	EWS	HLAC	•	SBCR		•		
Boggy Creek	310830030100		WWAC	•	PBCR		•		
Beaver Creek	310830030190		WWAC	•	SBCR		•		
Barnitz Creek	310830030200	PPWS	WWAC	•	PBCR		•		
East Barnitz Creek	310830030210	PPWS	WWAC	•	PBCR		•		
West Barnitz Creek	310830030230	PPWS	WWAC	•	PBCR		•		
Turkey Creek downstream from Clinton Lake	310830030260		WWAC	•	PBCR		•		
Clinton Lake	310830030280	PPWS	WWAC	•	PBCR		•	SWS	NLW
Oak Creek	310830030310	PPWS	WWAC	•	PBCR		•		
Panther Creek	310840010050	PPWS	WWAC	•	PBCR		•		
Quartermaster Creek	310840010060	PPWS	WWAC	•	PBCR		•		
Tributary of Quartermaster Creek at Sec. 17, T16N, R20W, IM (North Branch)	310840010080		HLAC	•	SBCR		•		
Hay Creek	310840010100	PPWS	WWAC	•	PBCR		•		
White Shield Creek	310840010120		HLAC	•	SBCR		•		
Sandstone Creek	310840020020, 310840020070	PPWS	WWAC	•	PBCR		•		
Dead Indian Creek	310840020120	PPWS	WWAC	•	PBCR		•		
Sergeant Major Creek	310840020140	PPWS	HLAC	•	SBCR		•		
Croton Creek	310840020190	PPWS	WWAC	•	PBCR		•		
Rush Creek	310840020210	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Buncombe Creek	311100010070	PPWS	WWAC	•	PBCR		•		
Hauani Creek including Hauani Lake	311100010130, 311100010140	PPWS	WWAC	•	PBCR		•		
Hickory Creek	311100020010	PPWS	WWAC	•	PBCR		•		
Anadarche Creek downstream from Lake Murray	311100020020	PPWS	WWAC	•	PBCR		•		
Lake Murray and Watershed	311100020020, 311100020030, 311100020040, 311100020050, 311100020060, 311100020070, 311100020080, 311100020090	PPWS	WWAC	•	PBCR		•	SWS	
Red River from headwaters of Lake Texoma to Cache Creek	311100010190, 311200000010	PPWS	WWAC	•	PBCR		•		
Walnut Bayou	311100030010, 311100010250	PPWS	WWAC	•	PBCR		•		
Simon Creek	311100030020	PPWS	WWAC	•	PBCR		•		
Walnut Creek	311100030070	PPWS	WWAC	•	PBCR		•		
Tributary of Walnut Creek at Sec. 28, T4S, R2W, IM	311100030180_00		HLAC	•	SBCR		•		
Healdton Lake	311100030130	PPWS	WWAC	•	PBCR		•		
Whiskey Creek	311100030140		HLAC	•	SBCR		•		
Cottonwood Creek	311100030090	PPWS	WWAC	•	PBCR		•		
Tributary of Cottonwood Creek at Sec. 28, T4S, R1W, IM	311100030190_00		HLAC	•	SBCR		•		
Bull Creek	311100030060		HLAC	•	SBCR		•		
Mud Creek	311100040010	PPWS	WWAC	•	PBCR		•		
Clear Creek	311100040020	PPWS	WWAC	•	PBCR		•		
North Mud Creek	311100040030	PPWS	HLAC	•	PBCR		•		
Tributary of North Mud Creek at SW 1/4, Sec. 34, T4S, R4W, IM	311100040035_00		HLAC	•	SBCR		•		
West Mud Creek	311100040200	PPWS	WWAC	•	PBCR		•		
Negro Creek	311100040100	PPWS	WWAC	•	PBCR		•		
Willow Branch	311100040110	PPWS	WWAC	•	PBCR		•		
Crooked Creek	311100040120	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Deer Creek	311100040130	PPWS	WWAC	•	PBCR		•		
Comanche Lake	311100040170		WWAC	•	PBCR		•		
Red Creek	311100010290	PPWS	WWAC	•	PBCR		•		
Fleetwood Creek	311100010300	PPWS	WWAC	•	PBCR		•		
Beaver Creek downstream from Waurika Lake	311200000030, 311200000010	PPWS	WWAC	•	PBCR		•		
Cow Creek	311200000060	EWS	WWAC	•	PBCR		•		
Dry Creek	311200000080	PPWS	WWAC	•	PBCR		•		
Cotton Creek	311200000090	PPWS	WWAC	•	PBCR		•		
Claridy (Clarity) Creek	311200000110	EWS	WWAC		PBCR		•		
East Cow Creek	311200000100	EWS	HLAC	•	SBCR		•		
Tributary of East Cow Creek SW 1/4, Sec. 15, T1S, R7W, IM	311200000160_00	EWS	HLAC	•	SBCR		•		
Beaver Creek upstream from and including Waurika Lake	311210000010, 311210000020	PPWS	WWAC	•	PBCR		•	SWS	
Walker Creek	311210000030	PPWS	WWAC	•	PBCR		•	SWS	
Little Beaver Creek	311210000050	PPWS	WWAC	•	PBCR		•	SWS	
Stage Stand Creek	311210000060	PPWS	WWAC	•	PBCR		•	SWS	
Hell Creek	311210000080	PPWS	WWAC	•	PBCR		•	SWS	
Ninemile Beaver Creek	311210000130	PPWS	WWAC	•	PBCR		•		
Cache Creek	311300010010	PPWS	WWAC	•	PBCR		•		
West Cache Creek downstream from Panther Creek	311310020010, 311310020020, 311310020140	PPWS	WWAC	•	PBCR		•		
Deep Red Creek including Lake Fredrick	311310030010, 311310030110, 311310030120	PPWS	WWAC	•	PBCR		•		
Pecan Creek	311310020030	PPWS	WWAC	•	PBCR		•		
Little Deep Red Creek	311310030040	PPWS	WWAC	•	PBCR		•		
Jack Creek	311310030030	PPWS	WWAC	•	PBCR		•		
East Jack Creek	311310030070	PPWS	WWAC	•	PBCR		•		
Horse Creek	311310030080	PPWS	WWAC	•	PBCR		•		
Deadman Creek	311310030090	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Blue Beaver Creek	311310020050, 311310020060	PPWS	WWAC	•	PBCR		•		
Post Oak Creek	311310020070	PPWS	WWAC	•	PBCR		•		
Crater Creek	311310020100	PPWS	WWAC	•	PBCR		•	HQW	
Panther Creek	311310020150	PPWS	WWAC	•	PBCR		•	HQW	
West Cache Creek upstream from Panther Creek	311310020140	PPWS	WWAC	•	PBCR		•	HQW	
East Cache Creek downstream from Lake Ellsworth	311300010020, 311300020010	PPWS	WWAC	•	PBCR		•		
Temple Lake (Mooney) and Watershed	311300010040, 311300010050	PPWS	WWAC	•	PBCR		•	SWS	
Walters Lake (Dave Boyer Lake) and Watershed	311300010070, 311300010080	PPWS	WWAC	•	PBCR		•	SWS	
Ninemile Creek	311300020030		WWAC	•	PBCR		•		
Tributary to Ninemile Creek within Sec. 23, T 1 N, R 11 WIM including Comanche Lake	311300020032_00		WWAC		PBCR		•		
Wolf Creek	311300020040	PPWS	WWAC	•	PBCR		•		
Medicine Creek downstream from Lake Lawtonka	311300040010, 311300040060	PPWS	WWAC	•	PBCR		•		
Elmer Thomas Lake and Watershed	311300040040, 311300040050	PPWS	WWAC	•	PBCR		•	SWS	
Lake Lawtonka and Watershed	311300040060, 311300040070, 311300040080, 311300040090, 311300040110_00, 311300040100_00	PPWS	WWAC	•	PBCR		•	SWS	
Lake Ellsworth and Watershed	311300030010, 311300030020, 311300030030, 311300030040, 311300030050, 311300030060, 311300030070, 311300030080	PPWS	WWAC	•	PBCR		•	SWS	
Red River from Cache Creek to North Fork of the Red River	311310010010	EWS	WWAC	•	PBCR		•		
Rabbit Creek	311310010020	PPWS	WWAC	•	PBCR		•		
Tributary of Red River at Sec. 29, T4S, R13W, IM	311310010035_00		HLAC	•	SBCR		•		
Blue Creek	311310010040	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Suttle Creek	311310010070		WWAC	•	SBCR		•		
Tributary of Suttle Creek at SW 1/4, Sec. 20, T3S, R17W, IM	311310010090_00		HLAC	•	SBCR		•		
North Fork of the Red River including Lugert-Altus Reservoir	311500010020, 311510010010, 311510010020, 311510020010	PPWS	WWAC	•	PBCR		•		
Stinking Creek	311500010050	PPWS	WWAC	•	PBCR		•		
Tributary of Stinking Creek at SE 1/4, Sec. 30, T2N, R19W, IM	311500010055_00	EWS	HLAC	•	SBCR		•		
Otter Creek	311500010080	PPWS	WWAC	•	PBCR		•		
West Otter Creek downstream from Tom Steed Reservoir	311500020040	PPWS	WWAC	•	PBCR		•		
Tom Steed Reservoir (Mountain Park) and Watershed	311500020040, 311500020050, 311500020060, 311500020070	PPWS	WWAC	•	PBCR		•	SWS	
Glen Creek	311500020070	PPWS	WWAC	•	PBCR		•	SWS	
Elk Creek downstream from the confluence with Little Elk Creek	311500030010, 311500030030_00	PPWS	WWAC	•	PBCR		•		
Elk Creek from headwaters to confluence with Little Elk Creek	311500030030_10		HLAC	•	SBCR		•		
Little Elk Creek downstream from Lake Hobart	311500030040	PPWS	WWAC	•	PBCR		•		
Hobart (Rocky Hobart) Lake	311500030060	PPWS	WWAC	•	PBCR		•	SWS	NLW
Spring Creek	311500030080	PPWS	WWAC	•	PBCR		•		
Elk City Reservoir	311500030120		WWAC	•	PBCR		•		NLW
Elm Fork of the Red River	311800000010	PPWS	WWAC	•	PBCR		•		
Haystack Creek	311800000040	PPWS	WWAC	•	PBCR		•		
Deer Creek	311800000070	PPWS	WWAC	•	PBCR		•		
Fish Creek	311800000130	PPWS	WWAC	•	PBCR		•		
Bull Creek	311800000150	PPWS	WWAC	•	PBCR		•		
North Elm Creek (West Elm Creek)	311800000170	PPWS	WWAC	•	PBCR		•		
Flat Creek	311510010070		WWAC	•	PBCR		•		
Timber Creek	311510010090	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Sand Creek	311510020040	PPWS	WWAC	•	PBCR		•		
Long Creek	311510020050	PPWS	WWAC	•	PBCR		•		
Turkey Creek	311510020060	PPWS	WWAC	•	PBCR		•		
Starvation Creek	311510020070	PPWS	WWAC	•	PBCR		•		
Buffalo Creek	311510020090	PPWS	WWAC	•	PBCR		•		
Sweetwater Creek	311510020120	PPWS	WWAC	•	PBCR		•		
Red River from confluence of the North Fork of the Red River to Buck Creek	311600010010	EWS	WWAC	•	PBCR		•		
Salt Fork of the Red River to the Texas State Line	311600020010	PPWS	WWAC	•	PBCR		•		
Turkey Creek	311600020060	PPWS	WWAC	•	PBCR		•		
Bitter Creek downstream of the boundary of Sections 3 & 2, T1N, R21W, IM	311600020110_00	EWS	WWAC	•	SBCR		•		
Bitter Creek upstream of the boundary of Sections 3 & 2, T1N, R21W, IM	311600020110_05, 311600020110_10	EWS	HLAC	•	SBCR		•		
Gypsum Creek	311600010020	PPWS	WWAC	•	PBCR		•		
Sandy Creek (Lebos)	311600010040	EWS	HLAC	•	SBCR		•		
Lebos Creek	311600010060_00		HLAC	•	SBCR		•		
Tributary of Lebos Creek at Sec. 2, T2N, R26W, IM	311600010065_00		HLAC	•	SBCR		•		
Prairie Dog Town Fork of the Red River from confluence of Buck Creek to 100 degree West Longitude	311600010080	EWS	WWAC	•	PBCR		•		

**APPENDIX A.4
Designated Beneficial Uses of Surface Waters
Water Quality Management Basin 4, Lower Red River**

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Red River from the Arkansas State Line to the Kiamichi River	410100010010	PPWS	WWAC	•	PBCR		•		
Norwood Creek	410100010050	PPWS	WWAC	•	PBCR		•		
Waterhole Creek	410100010340	PPWS	WWAC	•	PBCR		•		
Buzzard Creek	410100010450		WWAC	•	PBCR		•		
Tributary of Buzzard Creek at NW 1/4, Sec. 5, T7S, R22E, IM (Millerton Trib)	410100010456_00		HLAC	•	SBCR		•		
Garland Creek	410100010460		WWAC		PBCR				
Tributary of Garland Creek at SE 1/4, Sec. 34, T6S, R21E, IM (Valiant Creek)	410100010470		HLAC	•	SBCR		•		
Little River from the Arkansas State Line to Pine Creek Dam	410200010010, 410200010200, 410210010010, 410210020010	PPWS	CWAC	•	PBCR		•	HQW	
Rock Creek	410200010220	PPWS	CWAC	•	PBCR		•		
Mountain Fork River downstream from U.S. Hwy 70 bridge	410210040010_00	PPWS	CWAC	•	PBCR		•	HQW	
Mountain Fork River upstream from U.S. Hwy 70 bridge to Broken Bow Dam	410210040010_10, 410210040050, 410210050010	PPWS	Trout	•	PBCR		•	HQW	
Upper Mountain Fork River from Dam including Broken Bow Lake to the 600 foot elevation level	410210050010, 410210050020, 410210060010_00	PPWS	CWAC	•	PBCR		•	SWS	
Egypt Creek	410210050140	PPWS	CWAC	•	PBCR		•	SWS	
Otter Creek	410210050190	PPWS	CWAC	•	PBCR		•	SWS	
Panther Creek	410210050360	PPWS	CWAC	•	PBCR		•	ORW	
Buffalo Creek	410210060020	PPWS	CWAC	•	PBCR		•	SWS	
Big Hudson	410210060030		CWAC		PBCR		•		
Mine Creek	410210060060		CWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Upper Mountain Fork River upstream from the 600 foot elevation level	410210060010_10	PPWS	CWAC	•	PBCR		•	ORW	Scenic River
Boktuklo Creek	410210060100	PPWS	CWAC	•	PBCR		•	ORW	
Blue Creek	410210060110	PPWS	CWAC	•	PBCR		•	ORW	
Big Eagle Creek	410210060160	PPWS	CWAC	•	PBCR		•	ORW	
Little Eagle Creek	410210060170	PPWS	CWAC	•	PBCR		•	ORW	
Dry Creek	410210060270		CWAC	•	PBCR		•		
Cucumber Creek	410210060210	PPWS	CWAC	•	PBCR		•	ORW	
Beech Creek	410210060320	PPWS	CWAC	•	PBCR		•	ORW	
Cow Creek	410210060350	PPWS	CWAC	•	PBCR		•	ORW	
Yanubbe Creek	410200010150	PPWS	CWAC	•	PBCR		•		
Tributary of Yanubbe Creek at NE 1/4, Sec. 29, T6S, R25E, IM	410200010155_00		HLAC	•	SBCR		•		
Mud Creek	410200010210	EWS	WWAC	•	SBCR		•		
Tributary of Mud Creek at SE 1/4, Sec. 31, T7S, R24E, IM	410200010218_00		HLAC	•	SBCR		•		
Yashau (Yashoo) Creek	410200010230	PPWS	CWAC	•	PBCR		•		
Lukfata Creek	410210070010	PPWS	CWAC	•	PBCR		•	HQW	
Glover River	410210080010	PPWS	CWAC	•	PBCR		•	HQW	
Cedar Creek	410210080120	PPWS	CWAC	•	PBCR		•	HQW	
Carter Creek	410210080210	PPWS	CWAC	•	PBCR		•	HQW	
Pine Creek	410210080270	PPWS	CWAC	•	PBCR		•	HQW	
West Fork	410210090070	PPWS	CWAC	•	PBCR		•	HQW	
Silver Creek	410210090100		CWAC	•	PBCR		•		
Bluff Creek	410210090160	PPWS	CWAC	•	PBCR		•	HQW	
East Fork	410210090010	PPWS	CWAC	•	PBCR		•	HQW	
Horse Head Creek	410210010060	PPWS	WWAC	•	PBCR		•		
Tributary of Horse Head Creek at Sec. 10, T6S, R22E, IM	410210010065_00		HLAC	•	SBCR		•		
Cypress Creek	410210010070	PPWS	CWAC	•	PBCR		•	HQW	

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Little River upstream from and including Pine Creek Lake	410210020010, 410210020140, 410210020020, 410210030010	PPWS	CWAC	•	PBCR		•	HQW	
Pine Creek	410210020030	PPWS	CWAC	•	PBCR		•	HQW	
Terrapin Creek	410210020150	PPWS	CWAC	•	PBCR		•	HQW	
Houston Creek	410210020210	PPWS	CWAC	•	PBCR		•	HQW	
Caney Creek	410210020240		CWAC	•	PBCR		•		
Cloudy Creek	410210020300	PPWS	CWAC	•	PBCR		•	HQW	
Jack Creek	410210020430	PPWS	CWAC	•	PBCR		•	HQW	
Black Fork	410210030020	PPWS	CWAC	•	PBCR		•	HQW	
Red River upstream from the Kiamichi River to the Blue River	410400010010	PPWS	WWAC	•	PBCR		•		
Kiamichi River including Hugo Lake to U.S. Hwy. 271 Bridge near Clayton	410300010010, 410300020010, 410300020020, 410300030010_00	PPWS	WWAC	•	PBCR		•		
Gates Creek	410300010020, 410300010030	PPWS	CWAC	•	PBCR		•		
Lake Raymond Gary	410300010040		WWAC	•	PBCR		•		
Negro Creek	410300010060		HLAC	•	SBCR		•		
Bird Creek	410300010100	PPWS	WWAC	•	PBCR		•		
Long Creek	410300020080	PPWS	WWAC	•	PBCR		•		
North Fork	410300020060	PPWS	WWAC	•	PBCR		•		
Frazier Creek	410300020130	PPWS	CWAC	•	PBCR		•		
Rock Creek	410300020190	PPWS	CWAC	•	PBCR		•		
Cedar Creek	410300030020	PPWS	CWAC	•	PBCR		•	HQW	
Beaver Creek	410300030200	PPWS	WWAC	•	PBCR		•		
Tenmile Creek	410300030270	PPWS	WWAC	•	PBCR		•		
Buck Creek	410300030420	PPWS	WWAC	•	PBCR		•		
Clayton Lake and Watershed	410300030760, 410300030780	PPWS	WWAC	•	PBCR		•	SWS	
Kiamichi River upstream from U.S. Hwy 271 Bridge near Clayton	410300030010_10, 410300030570, 410310010010, 410310020010	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Jackfork Creek including Sardis Lake	410310010020 , 410310030020, 410310030100	PPWS	WWAC	•	PBCR		•	SWS	
Buffalo Creek	410310030030	PPWS	WWAC	•	PBCR		•	SWS	
Lake Nanih Waiya	410310010050		WWAC	•	PBCR		•		
Rock Creek	410310010170	PPWS	WWAC	•	PBCR		•		
Lake Ozzie Cobb and watershed	410300020190, 410300020220		WWAC	•	PBCR		•		NLW
Carl Albert Lake and Watershed	410310010210, 410310010220	PPWS	WWAC	•	PBCR		•	SWS	
Talihina Lake and Watershed	410310010230	PPWS	WWAC	•	PBCR		•	SWS	
Pigeon Creek	410310020110	PPWS	CWAC	•	PBCR		•		
Horse Creek downstream from the borders of Sections 10 & 15, T7S, R17E, IM	410400010040_00	PPWS	WWAC	•	PBCR		•		
Horse Creek upstream from the borders of Sections 10 & 15, T7S, R17E, IM	410400010040_10		WWAC	•	SBCR		•		
Tributary of Horse Creek at NE 1/4, Sec. 4, T7S, R17E, IM	410400010045_00		HLAC	•	SBCR		•		
Unnamed tributary of Red River at SW SE SE Sec. 22, T7S, R17E, IM	410400010090_00		HLAC	•	SBCR		•		
Muddy Boggy Creek	410400010070, 410400050010, 410400050270, 410400060010	PPWS	WWAC	•	PBCR		•		
Tributary of Muddy Boggy Creek at NW 1/4, Sec. 12, T2S, R11E, IM	410400050495_00		HLAC	•	SBCR		•		
Lick Creek	410400010130	PPWS	WWAC	•	PBCR		•		
Clear Boggy Creek	410400020010, 410400030010, 410400030230, 410400040010	PPWS	WWAC	•	PBCR		•		
Mayhew Creek	410400020020		WWAC	•	PBCR		•		
Unnamed tributary to Mayhew Creek at sect. 7, T6S, R14E, IM (Boswell Creek)	410400020025_00		HLAC		SBCR		•		
Caney Creek	410400030020		WWAC	•	SBCR		•		
Delaware Creek	410400030240	PPWS	WWAC	•	PBCR		•		
Sandy Creek	410400030280	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Tributary of Sandy Creek at SE 1/4, Sec. 14, T2S, R8E, IM (Wapanucka Creek)	410400030290		HLAC	•	SBCR		•		
Wide Springs Branch	410400030320	PPWS	WWAC	•	PBCR		•		
Bois D' Arc Creek	410400020160		WWAC		PBCR		•		
(Byrds) Mill Creek	410400040090	PPWS	WWAC	•	PBCR		•		
McGee Creek including McGee Creek Reservoir	410400070010, 410400070020	PPWS	WWAC	•	PBCR		•	SWS	
North Boggy Creek downstream from Atoka Reservoir	410400050410_00	PPWS	WWAC	•	PBCR		•		
Tributary of North Boggy Creek at NW1/4, Sec. 29, T1S, R12E, IM	410400050415_00		HLAC	•	SBCR		•		
North Boggy Creek upstream from and including Atoka Reservoir	410400080010, 410400080020	PPWS	WWAC	•	PBCR		•	SWS	
Sub Penitentiary Lake (Blue Stem)	410400080060	PPWS	WWAC	•	PBCR		•		
Kiowa City Lake on trib to Buck Creek	410400080200	PPWS	WWAC	•	PBCR		•		
Coal Creek	410400050540	PPWS	WWAC	•	PBCR		•		
Tributary of Brier Creek at Sec. 35, T1N, R10E, IM	410400050585_00		HLAC	•	SBCR		•		
Caney Creek	410400060020	PPWS	WWAC	•	PBCR		•		
Coon Creek	410400060030	PPWS	WWAC	•	PBCR		•		
Coalgate Reservoir and Watershed	410400060030, 410400060040, 410400060050	PPWS	WWAC	•	PBCR		•	SWS	
Caney Boggy Creek	410400060120	PPWS	WWAC	•	PBCR		•		
Sandy Creek	410400030280	PPWS	WWAC	•	PBCR		•		
Little Sandy Creek	410400060270		HLAC	•	SBCR		•		
Town Branch	410400060310_00		HLAC	•	SBCR		•		
Whitegrass Creek	410400010210	PPWS	WWAC	•	PBCR		•		
Blue River downstream from the State Hwy. 48A Bridge	410600010010, 410600010290, 410600020010	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Tributary of Bokchito Creek at Sec. 22, T6S, R11E, IM	410600010095		HLAC	•	SBCR		•		
Caddo Creek	410600010140		WWAC	•	PBCR		•		
Mineral Bayou	410600010300	EWS	WWAC	•	PBCR		•		
Little Blue River	410600010340	PPWS	WWAC	•	PBCR		•		
Sandy Creek	410600010250	PPWS	WWAC	•	PBCR		•		
Blue River upstream from State Hwy. 48A Bridge to State Hwy. 7 Bridge	410600020010_10	PPWS	Trout	•	PBCR		•	HQW	
Blue River upstream from State Hwy. 7 Bridge	410700020010_20	PPWS	CWAC	•	PBCR		•	HQW	
Red River upstream from the Blue River to Lake Texoma Dam	410700000010	PPWS	WWAC	•	PBCR		•		
Island Bayou	410700000040	EWS	WWAC	•	SBCR		•		
Sandy Creek	410700000250	PPWS	WWAC	•	PBCR		•		
Tributary of Sandy Creek at Sec. 20, T8S, R8E, IM	410700000250_00		HLAC	•	SBCR		•		

**APPENDIX A.5
Designated Beneficial Uses of Surface Waters
Water Quality Management Basin 5, Canadian River**

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
North Canadian River from Canadian River to S.H. 99 bridge	520500010110_10, 520510000010, 520510000110_00	PPWS	WWAC	•	PBCR		•		
Deep Fork of Canadian River downstream from Arcadia Lake	520700010120, 520700020010, 520700030010, 520700040010, 520700050010, 520710010010, 520710020010	PPWS	WWAC	•	PBCR		•		
Wolf Creek downstream from Lake Henryetta	520700010130, 520700010170_00		WWAC	•	PBCR		•		
Coal Creek	520700010140	EWS	WWAC	•	SBCR		•		
Henryetta Lake and Watershed	520700010170_10, 520700010180	PPWS	WWAC	•	PBCR		•	SWS	
Moore Creek	520700010190		WWAC	•	PBCR		•		
Burgess Creek at Montezuma Creek NE 1/4, Sec. 8, T12N, R13E, IM	520700010230	EWS	WWAC	•	PBCR		•		
Cussetah (Cosseetta) Creek	520700010250		WWAC	•	PBCR		•		
Tributary of Cussetah at NE 1/4, Sec. 12, T13N, R13E, IM	520700010310_00		HLAC	•	SBCR		•		
Salt Creek downstream from Okmulgee Lake	520700020020	PPWS	WWAC	•	PBCR		•		
Dripping Springs Lake	520700020060	PPWS	WWAC	•	PBCR		•		
Okmulgee Lake and Watershed	520700020040, 520700020050, 520700020060	PPWS	WWAC	•	PBCR		•	SWS	
Adams Creek including Beggs Lake	520700020080, 520700020110	PPWS	WWAC		PBCR		•		
Flat Rock Creek	520700020090	PPWS	WWAC	•	PBCR		•		
New Beggs Lake	520700020130	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Tributary of Adams Creek at NW1/4, Sec. 5, T14N, R12E, IM (West Beggs Creek)	520700020100	EWS	WWAC	•	PBCR		•		
Little Deep Fork Creek downstream from Sand Creek	520700060010, 520700060100		WWAC	•	PBCR		•		
Brown's Creek	520700060050	PPWS	WWAC		PBCR		•		
Little Deep Fork Creek upstream from Sand Creek to State Hwy. 48 Bridge	520700060130_00	PPWS	HLAC	•	SBCR		•		
Little Deep Fork Creek upstream from State Hwy. 48 Bridge	520700060130_10	PPWS	WWAC	•	PBCR		•		
Catfish Creek	520700060140	PPWS	WWAC	•	PBCR		•		
Tributary of Little Deep Fork Creek at SE 1/4, Sec. 6, T15N, R8E, IM	520700060220_00		HLAC	•	SBCR		•		
Nuyaka Creek	520700020200	PPWS	WWAC	•	PBCR		•		
Buckeye Creek	520700020270, 520700020280	PPWS	WWAC	•	PBCR		•		
Okemah Lake and Watershed	520700020280, 520700020290, 520700020300	PPWS	WWAC	•	PBCR		•	SWS	
Salt Creek	520700030100	PPWS	WWAC	•	PBCR		•		
Camp Creek downstream from Stroud Lake	520700030220	PPWS	WWAC	•	PBCR		•		
Stroud Lake and Watershed	520700030220, 520700030230, 520700030240	PPWS	WWAC	•	PBCR		•	SWS	
Gray Horse Creek	520700040030		HLAC	•	SBCR		•		
Dry Creek	520700040020	PPWS	WWAC	•	PBCR		•		
Chuckaho Creek	520700040060	PPWS	WWAC	•	PBCR		•		
West Beaver Creek	520700040170		WWAC	•	SBCR		•		
Deer Creek	520700040190	PPWS	WWAC	•	PBCR		•		
Robinson Creek	520700040180	PPWS	WWAC	•	PBCR		•		
Prague Lake	520720040025		WWAC	•	PBCR		•		
Quapaw Creek	520700040260	PPWS	WWAC	•	PBCR		•		
Sparks City Lake	520700040280	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Meeker Lake and Watershed	520700040350, 520700040360, 520700040370	PPWS	WWAC	•	PBCR		•	SWS	
Bellcow Creek including Bellcow Lake	520700050020, 520700050030, 520720050025	PPWS	WWAC	•	PBCR		•		
Chandler Lake and Watershed	520700050050, 520700050060, 520700050250	PPWS	WWAC	•	PBCR		•	SWS	
Tributary of Bellcow Creek at Sec. 6, T15N, R3E, IM	520700050260_00		HLAC	•	SBCR		•		
Kickapoo Creek	520700050090	PPWS	WWAC	•	PBCR		•		
East Captain Creek	520700050150	PPWS	WWAC	•	PBCR		•		
Bear Creek	520700050170	PPWS	WWAC	•	PBCR		•		
Smith Creek	520710010020	PPWS	HLAC	•	PBCR		•		
Coon Creek	520710010030		WWAC	•	PBCR		•		
Coffee Creek downstream from the boundaries of Sec. 22 & 23, T14N, R02W, IM	520710010090_00	PPWS	HLAC	•	PBCR		•		
Coffee Creek upstream from the boundaries of Sec. 22 & 23, T14N, R02W, IM	520710010090_10, 520710010100	PPWS	WWAC	•	PBCR		•		
Arcadia Lake and Watershed	520710020010, 520710020020, 520710020030, 520710020040, 520710020050, 520710020060, 520710020070, 520710020080, 520710020090, 520710020100, 520710020110, 520710020120, 520710020130, 520710020140, 520710020150, 520710020160	PPWS	WWAC	•	PBCR		•	SWS	
Bad Creek	520500010170	PPWS	WWAC	•	PBCR		•		
Dustin Lake	520500010152	PPWS	WWAC	•	PBCR		•		
Alabama Creek	520500010200	PPWS	WWAC	•	PBCR		•		
Weleetka Lake and Watershed	520500010210, 520500010220	PPWS	WWAC	•	PBCR		•	SWS	

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Wewoka Creek downstream from the boundaries of Secs. 27 & 28, T9N, R6E, IM	520500020010, 520500020240_00	EWS	WWAC	•	PBCR		•		
Sportsman Lake	520500020220	PPWS	WWAC	•	PBCR		•		
Fish Creek	520500020030	PPWS	WWAC	•	PBCR		•		
Tributary of Wewoka Creek at SE NE SW Sec. 27, T9N, R10E, IM (Wetumka Creek)	520500020035		HLAC	•	SBCR		•		
Graves Creek	520500020060	PPWS	WWAC	•	PBCR		•		
Little Wewoka Creek	520500020090	PPWS	WWAC	•	PBCR		•		
Tributary of Wewoka Creek at Sec. 20, T8N, R8E, IM (Oakwood Cemetery Creek)	520500020280		HLAC	•	SBCR		•		
Wewoka Lake and Watershed	520500020170, 520500020180, 520500020190	PPWS	WWAC	•	PBCR		•	SWS	
Wewoka Creek upstream from the boundaries of Sec. 27 & 28, T9N, R6E, IM	520500020240_10	PPWS	HLAC	•	SBCR		•		
Tributary of Wewoka Creek at NW 1/4, Sec. 16, T9N, R5E, IM	520500020290_00		HLAC	•	SBCR		•		
Tributary of North Canadian River at Sec. 22, T10N, R11E, IM	520500		HLAC	•	SBCR		•		
Lake Wetumka	520500010270	PPWS	WWAC	•	PBCR		•		
Flat Rock Creek	520500010280_00	PPWS	WWAC	•	PBCR		•		
Sand Creek	520510000050		HLAC	•	SBCR		•		
Tributary of Sand Creek at SW 1/4, Sec. 34, T11N, R8E, IM	520510000053_00		HLAC	•	SBCR		•		
Boley Creek	520510000055		HLAC	•	SBCR		•		
Turkey Creek	520510000100	PPWS	WWAC	•	PBCR		•		
Tecumseh Lake and Watershed	520510000200, 520510000210, 520510000220	PPWS	WWAC	•	PBCR		•	SWS	
Shan Creek	520510000120		HLAC	•	SBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Tributary of Squirrel Creek at SE 1/4 of NW 1/4 of SW 1/4 of Sec. 6, T9N, R4E, IM	520510000390_00		WWAC	•	PBCR		•		
Shawnee Twin Lakes and Watershed	520510000250, 520510000280, 520510000290, 520510000300	PPWS	WWAC	•	PBCR		•	SWS	
North Deer Creek including Wes Watkins Reservoir (N. Deer Creek Lake)	520510000310, 520510000255	PPWS	WWAC	•	PBCR		•		
Tributary of the North Canadian River at NE 1/4, Sec. 36, T12N, R1E, IM	520510000320_00		HLAC	•	SCBR		•		
Horseshoe Lake	520510000330		WWAC		PBCR		•		
North Canadian River from State Hwy. 99 Bridge to Portland Street Bridge, Oklahoma City	520510000110, 520520000010_40	EWS	WWAC	•	PBCR		•		
Choctaw Creek	520520000030	EWS	HLAC	•	SBCR		•		
Tributary of Choctaw Creek at NW 1/4, Sec. 27, T12N, R1W, IM	520520000035_00		HLAC	•	PBCR		•		
Crutcho Creek from North Canadian River to S.E. 15th Street, Del City	520520000070_00		WWAC	•	PBCR		•		
Soldier Creek	520520000080		WWAC	•	PBCR		•		
Tributary of Soldier Creek at NW 1/4, Sec. 13, T11N, R02W, IM	520520000290		WWAC	•	SBCR		•		
Crutcho Creek upstream from S.E. 15th Street, Del City	520520000070_10, 520520000090		HLAC	•	SBCR		•		
Tributary of Crutcho Creek at SW 1/4, Sec. 16, T11N, R2W, IM	520520000190_00		WWAC	•	PBCR		•		
Cherry Creek	520520000110		HLAC	•	SBCR		•		
Crooked Oak Creek	520520000150	PPWS	WWAC	•	PBCR		•		
North Canadian River from Portland Street Bridge to Canton Lake Dam	520520000010_50, 520520000250, 520530000010	PPWS	WWAC	•	PBCR		•		
Mustang Creek	520520000240		WWAC	•	PBCR		•		
Lake Overholser	520520000260	PPWS	WWAC	•	PBCR		•		NLW
Shell Creek	520530000030	PPWS	WWAC	•	PBCR		•		
Purcell Creek	520530000040	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Six Mile Creek	520530000050	PPWS	WWAC	•	PBCR		•		
Lake El Reno	520530000080		WWAC	•	PBCR		•		
Unnamed tributary of North Canadian River at Sec. 6, T13N, R10W, IM and NW SE NE 1/4 of Sec. 31, T14N, R10W, IM	520530000200_00		HLAC	•	SBCR		•		
Minnehaha Creek	520530000190	PPWS	WWAC	•	SBCR		•		
Canadian River from its confluence with Little River to Buckhead Creek	520600010010, 520600020010, 520610010010	PPWS	WWAC	•	PBCR		•		
Little River	520800010010, 520800010090, 520800010130, 520800020010	PPWS	WWAC	•	PBCR		•		
Lake Holdenville and Watershed	520800010030, 520800010040	PPWS	WWAC	•	PBCR		•	SWS	
Bird Creek	520800010050		HLAC	•	SBCR		•		
Tributary of Bird Creek at NW 1/4, Sec. 6, T6N, R9E, IM	520800010150_00		WWAC	•	SBCR		•		
Salt Creek	520800030010	PPWS	WWAC	•	PBCR		•		
Tributary to Salt Creek at NW SW Sec. 33, T8N R5E, IM (Maud Creek)	520800030040_00		WWAC	•	PBCR		•		
Unnamed tributary of Little River at Sec. 33, T8N, R6E, IM	520800010200_00		HLAC	•	SBCR		•		
Lake Thunderbird and Watershed	520810000010, 520810000020, 520810000030, 520810000040, 520810000050, 520810000060, 520810000070, 520810000080, 520810000090, 520810000100, 520810000110, 520810000120, 520810000130, 520810000140, 520810000150, 520810000170, 520810000175, 520810000180	PPWS	WWAC	•	PBCR		•	SWS	NLW
Stanley Draper Lake	520810000130	PPWS	WWAC	•	PBCR		•		
Tributary of Canadian River at SE 1/4, Sec.18, T5N, R7E, IM	520600010120_00		HLAC	•	SBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Jumper Creek including Lake Konawa	520600010080, 520600010090, 520600010100	EWS	WWAC	•	PBCR		•		
Canadian Sandy Creek	520600030010	PPWS	WWAC	•	PBCR		•		
Little Sandy Creek	520600030020	PPWS	WWAC	•	PBCR		•		
Spring Brook Creek	520600030030	PPWS	WWAC	•	PBCR		•		
Tributary of Cat Creek at Sec. 7, T6N, R4E, IM	520600020165_00		HLAC	•	SBCR		•		
Pond Creek	520600020190	PPWS	WWAC	•	PBCR		•		
Canadian River upstream from its confluence with Buckhead Creek to the US Hwy. 81 bridge	520610010010, 520610020010, 520610020150_00		WWAC	•	PBCR		•		
Buckhead Creek	520610010020	PPWS	WWAC	•	PBCR		•		
Tributary of Canadian River at NE 1/4, Sec. 35, T6N, R1W, IM	520610		HLAC	•	SBCR		•		
Walnut Creek	520610030010		WWAC	•	PBCR		•		
Purcell Lake	520610030040		WWAC	•	PBCR		•		
Bridge Creek at Sec. 22, T9N, R5W, IM	520610030100		WWAC	•	PBCR		•		
Pond Creek (return flow, City of Newcastle)	520610010210	PPWS	WWAC	•	PBCR		•		
Tributary of Pond Creek at NE 1/4, Sec. 14, T9N, R4W, IM (Tim's Creek)	520610010215		HLAC	•	SBCR		•		
Cow Creek	520610010230	PPWS	WWAC	•	PBCR		•		
Dry Creek	520610020070	PPWS	WWAC	•	PBCR		•		
Store Creek	520610020080	PPWS	WWAC	•	PBCR		•		
West Creek	520610020090		HLAC	•	SBCR		•		
Buggy Creek	520610020120	EWS	WWAC	•	PBCR		•		
Tributary of Canadian River at SW 1/4, Sec. 3, T10N, R7W, IM	520610020155_00		HLAC	•	SBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Canadian River upstream from US Hwy. 81 bridge	520610020150_10, 520620010010, 520620020010, 520620030010, 520620040010, 520620050010	EWS	WWAC	•	PBCR		•		
Deer Creek	520620060010	PPWS	WWAC	•	PBCR		•		
Little Deep Creek	520620060040		HLAC	•	PBCR		•		
Little Deer Creek	520620060070	PPWS	WWAC	•	PBCR		•		
Horse Creek	520620060080	PPWS	WWAC	•	PBCR		•		
American Horse Lake	520620010100		WWAC	•	PBCR		•		
Tributary of Canadian River at SE 1/4, Sec. 4, T15N, R14W, IM (West Fay Creek)	520620010160		HLAC	•	SBCR		•		
Squirrel Creek	520620020080	PPWS	WWAC	•	PBCR		•		
Lone Creek	520620030020	PPWS	WWAC	•	PBCR		•		
Trail Creek	520620020090	EWS	HLAC	•	SBCR		•		
Gyp Creek	520620030100	PPWS	WWAC	•	PBCR		•		
Red Creek	520620030110	PPWS	WWAC	•	PBCR		•		
Turkey Creek	520620030130	PPWS	WWAC	•	PBCR		•		
South Turkey Creek	520620030150	PPWS	WWAC	•	PBCR		•		
Hackberry Creek	520620040050	PPWS	WWAC	•	PBCR		•		
Trib to Mosquito Creek downstream from Sec. 31, T19N, R24W, IM	520620050110	PPWS	WWAC	•	PBCR		•		
Trib to Mosquito Creek upstream from Sec. 6, T18N, R24W, IM	520620050120	EWS	HLAC	•	SBCR		•		
Red Bluff Creek	520620050140	PPWS	WWAC	•	PBCR		•		
Commission Creek	520620050160	PPWS	WWAC	•	PBCR		•		
Lake Lloyd Vincent	520620050200		WWAC	•	PBCR		•		

**APPENDIX A.6
Designated Beneficial Uses of Surface Waters
Water Quality Management Basin 6, Upper Arkansas River**

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Arkansas River upstream from and including Keystone Reservoir to Kaw Dam	620900010020, 620900010090, 621200010020, 621200010040, 621200010050, 621200020010	PPWS	WWAC	•	PBCR		•		
Cimarron River upstream from Keystone Reservoir to the Kansas State Line	620900010170, 620900020010, 620900030010, 620910010010, 620910020010, 620920010010, 620920020010, 620920030010	EWS	WWAC	•	PBCR		•		
Buckeye Creek	620900010220		WWAC		PBCR		•		
Tiger Creek	620900010250		WWAC	•	PBCR		•		
Euchee Creek downstream from Sec. 5, T17N, R6E, IM	620900010290_00	EWS	WWAC	•	PBCR		•		
Euchee Creek upstream from Sec. 5, T17N, R6E, IM	620900010290_10	EWS	WWAC	•	SBCR		•		
Cottonwood Creek	620900010310	EWS	WWAC	•	PBCR		•		
Wildhorse Creek	620900010320	EWS	WWAC	•	PBCR		•		
Skull Creek	620900010360	EWS	WWAC	•	PBCR		•		
Salt Creek	620900020020	PPWS	WWAC	•	PBCR		•		
Council Creek	620900020050	PPWS	WWAC	•	PBCR		•		
Big Creek downstream from Cushing Lake	620900020100	PPWS	WWAC	•	PBCR		•		
Cushing Lake and Watershed	620900020110, 620900020120, 620900020130	PPWS	WWAC	•	PBCR		•	SWS	
Stillwater Creek downstream from Little Stillwater Creek	620900040040	PPWS	WWAC	•	PBCR		•		
Little Stillwater Creek	620900040050	PPWS	WWAC	•	PBCR		•		
Stillwater Creek from Little Stillwater Creek to Sec. 32, T19N, R3E, IM	620900040070_00	EWS	HLAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Stillwater Creek upstream from Sec. 33, T19N, R3E to the Carl Blackwell Lake Dam	620900040070_10, 620900040270_00	EWS	HLAC	•	SBCR		•		
Brush Creek	620900040090		HLAC	•	SBCR		•		
Boomer Creek below Boomer Lake	620900040140, 620900040180	PPWS	WWAC	•	PBCR		•		
Boomer Lake and Watershed	620900040180, 620900040190	PPWS	WWAC	•	PBCR		•	SWS	
Lake McMurtry and Watershed	620900040220, 620900040230, 620900040240	PPWS	WWAC	•	PBCR		•	SWS	
Carl Blackwell Lake and Watershed	620900040270_10, 620900040280, 620900040290, 620900040300	PPWS	WWAC	•	PBCR		•	SWS	
Sand Creek	620900030040		HLAC	•	SBCR		•		
Dugout Creek	620900030080	PPWS	WWAC	•	PBCR		•		
Fitzgerald Creek	620900030150	PPWS	WWAC	•	PBCR		•		
Langston Lake and Watershed	620900030170, 620900030180	PPWS	WWAC	•	PBCR		•	SWS	
Beaver Creek	620900030230	PPWS	WWAC	•	PBCR		•		
Skeleton Creek downstream from Bitter Creek	620910030010, 620910030170_00	PPWS	WWAC	•	PBCR		•		
Wolf Creek	620910030020	PPWS	WWAC	•	PBCR		•		
Otter Creek	620910030040	PPWS	WWAC	•	PBCR		•		
Horse Creek	620910030110	PPWS	WWAC	•	PBCR		•		
Bitter Creek	620910030180	PPWS	WWAC	•	PBCR		•		
Skeleton Creek from Bitter Creek to Boggy Creek	620910030170_10,	EWS	HLAC	•	SBCR		•		
Hackberry Creek	620910030220	EWS	WWAC	•	SBCR		•		
Tributary of Skeleton Creek at Sec. 27, T22N, R5W, IM (Fairmont Creek)	620910030230_00		HLAC	•	SBCR		•		
Skeleton Creek upstream from Boggy Creek	620900030240_00	PPWS	WWAC	•	PBCR		•		
Tributary of Boggy Creek at NW 1/4, Sec. 14, T22N, R6W, IM	621010		HLAC	•	SBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Cottonwood Creek	620910040010	PPWS	WWAC	•	PBCR		•		
Guthrie Lake and Watershed	620910040050, 620910040060	PPWS	WWAC	•	PBCR		•	SWS	
Liberty Lake and Watershed	620910040070, 620910040080	PPWS	WWAC	•	PBCR		•	SWS	
Chisholm Creek	620910040100	PPWS	WWAC	•	PBCR		•		
Deer Creek	620910040120	PPWS	WWAC	•	PBCR		•		
Bluff Creek	620910040140	PPWS	WWAC	•	PBCR		•		
Kingfisher Creek	620910050010		WWAC	•	PBCR		•		
Uncle John Creek	620910050030		WWAC	•	PBCR		•		
Winter Camp Creek	620910050080	PPWS	WWAC	•	PBCR		•		
Tributary of Winter Camp Creek at NE 1/4, Sec. 19, T15N, R8W, IM	620910050085_00	EWS	HLAC	•	SBCR		•		
Otter Creek	620910050130	PPWS	WWAC	•	PBCR		•		
Turkey Creek	620910060010	PPWS	WWAC	•	PBCR		•		
Unnamed tributary of Turkey Creek at Sec. 23, T19N, R7W, IM (Narragansett Creek)	620910060025_00		HLAC	•	SBCR		•		
Dry Salt Creek	620910060140		HLAC	•	SBCR		•		
Tributary of Dry Salt Creek at NW 1/4, Sec. 15, T21N, R8W, IM	620910060145_00		HLAC	•	SBCR		•		
Cooper Creek	620910020040	PPWS	WWAC	•	PBCR		•		
Salt Creek downstream from the Blaine-Kingfisher County Line	620910020100_00	EWS	WWAC	•	SBCR		•		
Salt Creek upstream from the Blaine-Kingfisher County Line	620910020100_10	EWS	HLAC	•	SBCR		•		
Spring Creek	620910020110	PPWS	WWAC	•	PBCR		•		
Tributary of Spring Creek at Sec. 19, T19N, R10W, IM	620910020115_00		HLAC	•	SBCR		•		
Tributary of Salt Creek at Sec. 11, T17N, R11W, IM (Hitchcock Creek)	620910020120_00		HLAC	•	SBCR		•		
Hoyle Creek	620910020210	PPWS	WWAC	•	PBCR		•		
Deep Creek	620910020250	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Elm Creek	620910020270	PPWS	WWAC	•	PBCR		•		
Indian Creek	620910020310	PPWS	WWAC	•	PBCR		•		
Sand Creek	620920010020	PPWS	WWAC	•	PBCR		•		
Gypsum Creek	620920010030	PPWS	WWAC	•	PBCR		•		
Cottonwood Creek	620920010080	PPWS	WWAC	•	PBCR		•		
Eagle Chief Creek	620920040010	PPWS	WWAC	•	PBCR		•		
Tributary of Eagle Chief Creek at Sec. 36, T24N, R12W, IM (Big Timber Lake Creek)	620920040030		HLAC	•	SBCR		•		
Lake Creek	620920040100		WWAC	•	PBCR		•		
Cheyenne Creek	620920010100	PPWS	WWAC	•	PBCR		•		
Barney Creek	620920010110	PPWS	WWAC	•	PBCR		•		
Griever Creek	620920010130	PPWS	WWAC	•	PBCR		•		
East Griever Creek	620920010140	PPWS	WWAC	•	PBCR		•		
Main Creek	620920010180	PPWS	WWAC	•	PBCR		•		
Ewers Creek	620920010190	PPWS	WWAC	•	PBCR		•		
Dog Creek	620920020020	EWS	WWAC	•	PBCR		•		
Sand Creek	620920020030	PPWS	WWAC	•	PBCR		•		
Chimney Creek	620920020040	PPWS	WWAC	•	PBCR		•		
White Horse Creek	620920020050	PPWS	WWAC	•	PBCR		•		
Doe Creek	620920020060	PPWS	WWAC	•	PBCR		•		
Long Creek	620920020080	PPWS	WWAC	•	PBCR		•		
Red Horse Creek	620920020110	PPWS	WWAC	•	PBCR		•		
Anderson Creek	620920020120	PPWS	WWAC	•	PBCR		•		
Traders Creek	620920020170	PPWS	WWAC	•	PBCR		•		
Moccasin Creek	620920020180	PPWS	WWAC	•	PBCR		•		
Sand Creek	620920020200	PPWS	WWAC	•	PBCR		•		
Buffalo Creek	620920050010	PPWS	WWAC	•	PBCR		•		
Sleeping Bear Creek	620920050030	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Sand Creek	620920050050	PPWS	WWAC	•	PBCR		•		
Day Creek	620920030030	PPWS	WWAC	•	PBCR		•		
Keno Creek	620920030040	PPWS	WWAC	•	PBCR		•		
Cimarron River from Kansas State Line near Englewood, Kansas to the Kansas State Line near Forgan, Oklahoma	620930000010	PPWS	WWAC	•	PBCR		•		
Snake Creek	620930000020	PPWS	WWAC	•	PBCR		•		
Redoubt Creek	620930000030	PPWS	WWAC	•	PBCR		•		
Horse Creek	620930000060	EWS	WWAC	•	SBCR		•		
Crooked Creek	620930000100	PPWS	WWAC	•	PBCR		•		
Cottonwood Creek	620930000110	PPWS	WWAC	•	PBCR		•		
Bug Creek	621200010320	PPWS	WWAC	•	PBCR		•		
Ranch Creek including Cleveland Lake	621200010260, 621200010270	PPWS	WWAC	•	PBCR		•		
Black Bear Creek	621200030010, 621200030260	PPWS	WWAC	•	PBCR		•		
Camp Creek including Lone Chimney Lake	621200030040, 621200030060	PPWS	WWAC	•	PBCR		•		
Pawnee Lake and Watershed	621200030080, 621200030090, 621200030100, 621200030110, 621200030120	PPWS	WWAC	•	PBCR		•	SWS	
Oak Creek	621200030190	PPWS	WWAC	•	PBCR		•		
Tributary of Oak Creek at SE 1/4, Sec. 27, T21N, R3E, IM	621200030195_00		WWAC	•	PBCR		•		
Mule Creek	621200030230	PPWS	WWAC	•	PBCR		•		
Cow Creek downstream from Lake Perry	621200030270,	PPWS	WWAC	•	PBCR		•		
Lake Perry and Watershed	621200030340, 621200030350	PPWS	WWAC	•	PBCR		•	SWS	
West Warren Creek	621200030390	PPWS	WWAC	•	PBCR		•		
Salt Creek	621200040010	PPWS	WWAC	•	PBCR		•		
Fairfax City Lake and Watershed	621200040030, 621200040040	PPWS	WWAC	•	PBCR		•	SWS	
Little Chief Creek	621200040070	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Phillips Lake (Shidler) and Watershed	621200040170, 621200040180	PPWS	WWAC	•	PBCR		•	SWS	
Tributary of Salt Creek at SW 1/4, Sec. 34, T27N, R6E, IM	621200040270_00		HLAC	•	SBCR		•		
Elm Creek	621200040210	PPWS	WWAC	•	PBCR		•		
Doga Creek	621200020020	PPWS	WWAC	•	PBCR		•		
Greasy Creek including Sooner Lake	621200020110, 621200020130		WWAC	•	PBCR		•		
Red Rock Creek	621200050010		WWAC	•	PBCR		•		
Tributary of Red Rock Creek at NW 1/4, Sec. 7, T23N, R2E, IM (Marland Creek)	621200050070_00		HLAC	•	SBCR		•		
Salt Fork of the Arkansas River	621000010010, 621000020010, 621010010010, 621010010160, 621010010220	PPWS	WWAC	•	PBCR		•		
Great Salt Plains Reservoir	621010010010, 621010010050, 621010010060, 621010010100		WWAC		PBCR		•		NLW
Bois d'Arc Creek	621000030010	PPWS	WWAC	•	PBCR		•		
Spring Creek downstream from Sec. 3, T27N, R2E, IM	621000030070, 621000030090_00	EWS	WWAC	•	PBCR		•		
Spring Creek upstream from Sec. 10, T27N, R2E, IM to Sec. 27, T28N, R2E, IM	621000030110_00	EWS	HLAC	•	SBCR		•		
Spring Creek upstream from Sec. 34, T28N, R2E, IM	621000030110_10	EWS	WWAC	•	PBCR		•		
Chikaskia River	621100000010, 621100000190	PPWS	WWAC	•	PBCR		•		
Duck Creek	621100000030	PPWS	WWAC	•	PBCR		•		
Stink Creek	621100000050	PPWS	WWAC	•	PBCR		•		
Bitter Creek	621100000100	PPWS	WWAC	•	PBCR		•		
Doe Creek	621100	PPWS	WWAC	•	PBCR		•		
Bluff Creek	621100000230	PPWS	WWAC	•	PBCR		•		
Deer Creek	621000040010	PPWS	WWAC	•	PBCR		•		
Pond Creek	621000050010	PPWS	WWAC	•	PBCR		•		
Polecat Creek	621000050030	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Bullwacker Creek	621000050080	EWS	HLAC	•	SBCR		•		
Osage Creek	621000050100	PPWS	WWAC	•	PBCR		•		
Crooked Creek	621000060010	PPWS	WWAC	•	PBCR		•		
Sand Creek	621000060030	PPWS	WWAC	•	PBCR		•		
Wagon Creek	621000020200	PPWS	WWAC	•	PBCR		•		
Tributary of Wagon Creek at Sec. 10, T25N, R9W, IM	621000020210_00		HLAC	•	SBCR		•		
Clay Creek	621010010090	EWS	WWAC	•	PBCR		•		
East Clay Creek	621010010110	PPWS	WWAC	•	PBCR		•		
West Clay Creek	621010010130	PPWS	WWAC	•	PBCR		•		
Sandy Creek	621010020010	PPWS	WWAC	•	PBCR		•		
Little Sandy Creek	621010020030	PPWS	WWAC	•	PBCR		•		
Medicine Lodge River	621010030010	PPWS	WWAC	•	PBCR		•		
Driftwood Creek	621010030030	PPWS	WWAC	•	PBCR		•		
Turkey Creek	621010010230	PPWS	WWAC	•	PBCR		•		
Greenleaf Creek	621010010250	PPWS	WWAC	•	PBCR		•		
Yellowstone Creek	621010010270	PPWS	WWAC	•	PBCR		•		
Hoover Ditch	621200		HLAC	•	SBCR		•		
Lake Ponca and Watershed	621200020190, 621200020200, 621200020210, 621200020220	PPWS	WWAC	•	PBCR		•	SWS	
Arkansas River upstream from Kaw Dam to Kansas State Line including Kaw Lake	62121000020, 621210000030, 62121000040	PPWS	WWAC	•	PBCR		•		
Beaver Creek	621210000050	PPWS	WWAC	•	PBCR		•		

**APPENDIX A.7
Designated Beneficial Uses of Surface Waters
Water Quality Management Basin 7, Panhandle Region**

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
North Canadian River upstream from and including Canton Lake (Crystal Beach Lake) to Hwy 50	720500010010, 720500010020, 720500010140_00	PPWS	WWAC	•	PBCR		•		
Cheyenne Creek	720500010040	PPWS	WWAC	•	PBCR		•		
Deep Creek	720500010060	PPWS	WWAC	•	PBCR		•		
Bent Creek	720500010070	PPWS	WWAC	•	PBCR		•		
Camp Creek	720500010080	PPWS	WWAC	•	PBCR		•		
Kizer Creek	720500010090	PPWS	WWAC	•	PBCR		•		
Cottonwood Creek	720500010110	PPWS	WWAC	•	PBCR		•		
Persimmon Creek	720500010150	PPWS	WWAC	•	PBCR		•		
North Persimmon Creek	720500010170	PPWS	WWAC	•	PBCR		•		
South Persimmon Creek	720500010180	PPWS	WWAC	•	PBCR		•		
Indian Creek	720500010200	PPWS	WWAC	•	PBCR		•		
North Canadian (Beaver) River upstream from Hwy. 50 to Optima Lake	720500010140_10, 720500010140_20, 720500020010, 720500020140, 720500020290, 720500020450		WWAC	•	PBCR		•		
Wolf Creek	720500020030, 720500030010	PPWS	WWAC	•	PBCR		•	SWS	
Fort Supply Reservoir	720500030020	PPWS	WWAC	•	PBCR		•	SWS	NLW
Sixteenmile Creek	720500030050	PPWS	WWAC	•	PBCR		•	SWS	
Little Wolf Creek	720500030070	PPWS	WWAC	•	PBCR		•	SWS	
Buzzard Creek	720500030080	PPWS	WWAC	•	PBCR		•	SWS	
Twentyfive mile Creek	720500030090	PPWS	WWAC	•	PBCR		•	SWS	
Willow Creek	720500030100	PPWS	WWAC	•	PBCR		•	SWS	
Rock Creek	720500030110	PPWS	WWAC	•	PBCR		•	SWS	
Otter Creek	720500020050	PPWS	WWAC	•	PBCR		•		
Clear Creek	720500020070	PPWS	WWAC	•	PBCR		•		

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Kiowa Creek	720500020130	PPWS	WWAC	•	PBCR		•		
Camp Creek	720500020150	PPWS	WWAC	•	PBCR		•		
Sand Creek	720500020160	PPWS	WWAC	•	PBCR		•		
Coon Creek	720500020190	PPWS	WWAC	•	PBCR		•		
Mexico Creek	720500020210	PPWS	WWAC	•	PBCR		•		
Duck Pond Creek	720500020250	PPWS	WWAC	•	PBCR		•		
Camp Creek	720500020260	PPWS	WWAC	•	PBCR		•		
Clear Creek	720500020300	PPWS	WWAC	•	PBCR		•		
Cottonwood Creek	720500020310	PPWS	WWAC	•	PBCR		•		
South Fork of Clear Creek	720500020330	PPWS	WWAC	•	PBCR		•		
North Fork of Clear Creek	720500020340	PPWS	WWAC	•	PBCR		•		
Home Creek	720500020380	PPWS	WWAC	•	PBCR		•		
Sixmile Creek	720500020390	PPWS	WWAC	•	PBCR		•		
Willow Creek	720500020420	PPWS	WWAC	•	PBCR		•		
Sharp Creek	720500020430	PPWS	WWAC	•	PBCR		•		
Jackson Creek	720500020460	PPWS	WWAC	•	PBCR		•		
Bull Creek	720500020480	PPWS	WWAC	•	PBCR		•		
Fulton Creek	720500020510	PPWS	WWAC	•	PBCR		•		
Sand Creek	720500020520	PPWS	WWAC	•	PBCR		•		
Palo Duro Creek	720500020500	PPWS	WWAC	•	PBCR		•		
Chiquita Creek	720500020530	PPWS	WWAC	•	PBCR		•		
Hackberry Creek	720500020560	PPWS	WWAC	•	PBCR		•		
North Canadian (Beaver) River upstream from Optima Lake to Texas State Line	720510010020, 720510000100, 720510000190_00	PPWS	WWAC	•	PBCR		•		
Coldwater Creek	720510000040	PPWS	WWAC	•	PBCR		•		
Pony Creek	720510000090	PPWS	WWAC	•	PBCR		•		
Goff Creek	720510000110	PPWS	WWAC	•	PBCR		•		
Dry Sand Draw	720510000150								(1)

Amendments Proposed by OWRB Staff as of 11/15/2012

Waterbody Name and Sequence	Waterbody ID Numbers	Water Supply	F&W Prop	Ag	Rec	Nav	Aes	Limitations	Remarks
Tepee Creek	720510000200	PPWS	WWAC	•	PBCR		•		
Sand Creek	720510000220	PPWS	WWAC	•	PBCR		•		
North Canadian (Beaver) River upstream from Texas State Line to New Mexico State Line	720510000190_10, 720510000275	PPWS	WWAC	•	PBCR		•	HQW	
Cienequilla Creek from mouth to New Mexico State Line	720510000240	PPWS	WWAC	•	PBCR		•		
Cimarron River upstream from the Colorado State Line to the New Mexico State Line	720900000010, 720900000180	PPWS	WWAC	•	PBCR		•	HQW	
South Picket House Draw	720900000050	PPWS	WWAC	•	PBCR		•		
Cold Springs Creek	720900000100	PPWS	WWAC	•	PBCR		•		
Gallinas Cañon	720900000130	PPWS	WWAC	•	PBCR		•		
Water Canyon	720900000190	PPWS	WWAC	•	PBCR		•		
South Carrizo Creek	720900000200	PPWS	WWAC	•	PBCR		•		
Lake Carl Etling	720900000240	PPWS	WWAC	•	PBCR		•		NLW
Cottonwood Canyon Creek	720900000210	PPWS	WWAC	•	PBCR		•		
Tesesquite Creek	720900000260	PPWS	WWAC	•	PBCR		•		
North Carrizo Creek	720900000280	PPWS	WWAC	•	PBCR		•		
Carrizozo Creek	720900000320	PPWS	WWAC	•	PBCR		•		

**APPENDIX G. NUMERICAL CRITERIA TO PROTECT BENEFICIAL USES
[REVOKED]**

**APPENDIX G. NUMERICAL CRITERIA TO PROTECT BENEFICIAL USES
[NEW]**

(a) **Introduction.** This Appendix prescribes numerical limits for certain criteria which are necessary to protect beneficial uses as and wherever designated. Table 1 is a chart that states the numerical limits to protect the beneficial use and subcategories of Fish and Wildlife Propagation for the single parameter of dissolved oxygen as set forth in OAC 785:45-5-12(f)(1). The latter limits vary depending upon several factors including the pertinent subcategory or fishery class, the time of the year, and the seasonal temperature. Table 2 prescribes the numerical limits for certain substances or parameters in order to protect beneficial uses and subcategories as set forth in OAC 785:45-5-10(1), 785:45-5-10(6), 785:45-5-12(f)(6), and 785:45-5-20. The numerical limits may vary from one beneficial use or subcategory to another according to how the criteria are required by OAC 785:45 or OAC 785:46 to be implemented. Table 3 is a chart that sets forth conversion factors that can be used to determine criteria for dissolved metals in order to protect the beneficial use of Fish and Wildlife Propagation and all its subcategories as set forth in OAC 785:45-5-12(f)(6)(H).

(b) **Explanations for abbreviations and certain terms in Tables.**

- (1) "CAS #" refers to a parameter's Chemical Abstract Service registry number. Each of these numbers is a unique identifier of a particular compound with a particular structure; the number provides additional and further specificity for the parameter in question than simply identifying it by a systematic, generic, proprietary, or [trivial] name. The CAS number has no particular chemical significance.
- (2) Equations are prescribed for those substances the toxicity of which varies with water chemistry.
- (3) Metals that are listed in Tables 2 and 3 shall be measured as total metals in the water column.

TABLE 1.

**Dissolved Oxygen Criteria to Protect Fish and Wildlife Propagation
and All Subcategories Thereof ¹**

SUBCATEGORY OF FISH AND WILDLIFE PROPAGATION (FISHERY CLASS)	DATES APPLICABLE	D.O. CRITERIA (MINIMUM) (mg/L)	SEASONAL TEMPERATURE (°C)
Habitat Limited Aquatic Community			
Early Life Stages	4/1 - 6/15	4.0	25 ³
Other Life Stages			
Summer Conditions	6/16 - 10/15	3.0	32
Winter Conditions	10/16 - 3/31	3.0	18
Warm Water Aquatic Community			
Early Life Stages	4/1 - 6/15	6.0 ²	25 ³
Other Life Stages			
Summer Conditions	6/16 - 10/15	5.0 ²	32
Winter Conditions	10/16 - 3/31	5.0	18
Cool Water Aquatic Community & Trout			
Early Life Stages	3/1 - 5/31	7.0 ²	22
Other Life Stages			
Summer Conditions	6/1 - 10/15	6.0 ²	29
Winter Conditions	10/16 - 2/28	6.0	18

¹ For use in calculation of the allowable load.

² Because of natural diurnal dissolved oxygen fluctuation, a 1.0 mg/l dissolved oxygen concentration deficit shall be allowed for not more than eight (8) hours during any twenty-four (24) hour period.

³ Discharge limits necessary to meet summer conditions will apply from June 1 of each year. However, where discharge limits based on Early Life Stage (spring) conditions are more restrictive, those limits may be extended to July 1.

TABLE 2.
Numerical Criteria to Protect Beneficial Uses and All Subcategories Thereof

PARAMETER	CAS #	Fish & Wildlife Propagation		Public & Private Water Supply (Raw Water)	Fish Consumption (+ Other Organisms) and Water	Fish Consumption (+ Other Organisms)
		ACUTE	CHRONIC			
		µg/L	µg/L	µg/L	µg/L	µg/L
INORGANICS						
Arsenic	7440382	360.0	190	40		205.0
Barium	7440393			1000		
Cadmium	7440439	e(1.128[ln(hardness)] -1.6774)	e(0.7852[ln(hardness)] -3.490)	20	14.49	84.13
Cadmium for trout streams		e(1.128[ln(hardness)] -3.828)	e(0.7852[ln(hardness)] -3.490)	20	14.49	84.13
Chromium (total)			50	50	166.3	3365.0
Copper	7440508	e(0.9422[ln(hardness)] -1.3844)	e(0.8545[ln(hardness)] -1.386)	1000		
Cyanide	57125	45.93	10.72	200		
Fluoride @ 90° F				4000		
Lead	7439921	e(1.273[ln(hardness)] -1.460)	e(1.273[ln(hardness)] -4.705)	100	5.0	25.0
Mercury	7439976	2.4	1.302	2	0.050	0.051
Nickel	7440020	e(0.8460[ln(hardness)] +3.3612)	e(0.846[ln(hardness)] +1.1645)		607.2	4583.0
Nitrates (as N)	14797558			10,000		
Selenium	7782492	20.0	5	10		
Silver	7440224	e(1.72[ln(hardness)] -6.52)		50	104.8	64620.0
Thallium	7440280	1400.0			0.24	0.47
Zinc	7440666	e(0.8473[ln(hardness)] +0.8604)	e(0.8473[ln(hardness)] +0.7614)	5000		

Amendments Proposed by OWRB Staff as of 11/15/2012

PARAMETER	CAS #	Fish & Wildlife Propagation		Public & Private Water Supply (Raw Water)	Fish Consumption (+ Other Organisms) and Water	Fish Consumption (+ Other Organisms)
		ACUTE	CHRONIC			
		µg/L	µg/L	µg/L	µg/L	µg/L
ORGANICS						
1-1-1 TCE	71556				3094.0	173100.0
2-4-5-TP Silvex	93721		10.0	10		
2-4-6-TNT		450.0				
2-4-D	94757			100		
Acrolein	107028				6.0	9.0
Acrylonitrile	107131	7550.0			0.51	2.5
Aldrin	309002	3.0			0.00049	0.00050
Benzene	71432		2200.0		22	510
Benzidine	92875			1		
Carbon Tetrachloride	56235				2.3	16
Chlordane	57749	2.4	0.17		0.0080	0.0081
Chloroform	67663				56.69	4708.0
Chlorpyrifos (Dursban)	2921882	0.083	0.041			
4,4'-DDD	72548				0.0031	0.0031
4,4'-DDT	50293	1.1	0.001		0.0022	0.0022
Demeton	8065483		0.1			
Detergents (total)				200		
Diazinon	333415	0.17				
Dichlorobromomethane	75274				5.5	170
Dieldrin	60571	2.5	0.0019		0.00052	0.00054
Dioxin (TCDD)	1746016				5.0E-08	5.1E-08
Endosulfan		0.22	0.056			
Endrin	72208	0.18	0.0023	0.2	0.059	0.060
Ethylbenzene	100414				530	2100
Guthion	86500		0.01			
gamma BHC (Lindane)	58899	2.0	0.08	4	0.98	1.8
Heptachlor	76448	0.52	0.0038		0.00079	0.00079

Amendments Proposed by OWRB Staff as of 11/15/2012

PARAMETER	CAS #	Fish & Wildlife Propagation		Public & Private Water Supply (Raw Water)	Fish Consumption (+ Other Organisms) and Water	Fish Consumption (+ Other Organisms)
		ACUTE	CHRONIC			
		µg/L	µg/L	µg/L	µg/L	µg/L
Hexachlorobenzene	118741				0.0028	0.0029
Malathion	121755		0.10			
Methoxychlor	72435		0.03	100		
Methylene blue active substances			0.001	500		
Mirex	2385855		0.001			
Nonylphenol	25154523	28	6.6			
Parathion	56382	0.065	0.013			
PCB			0.044		0.00064	0.00064
PCE (Tetrachloroethylene)	127184	5280.0			6.9	33
Pentachlorophenol	87865	e[1.005(pH)-4.830]	e[1.005(pH)-5.290]		2.7	30
Perchlorate	7601-90-3	6600	1800		9	
Phenol	108952				10,000.0	860,000.0
Phthalate esters				3		
Bis(2-ethylhexyl) phthalate (BEHP)	117817				12	22
Butylbenzyl phthalate	85687			150	1500	1900
Diethyl phthalate	84662				17000	44000
Dimethyl phthalate	131113				2.7E+05	1.1E+06
Di-n-Butyl phthalate	84742				2000	4500
RDX	121824	2591.5				
Toluene	108883		875.0		1300	15000
Toxaphene	8001352	0.78	0.0002	5		

TABLE 3

**Conversion Factors for Total to Dissolved Fractions
[H=hardness as CaCO₃ (mg/L)]**

METAL	CAS#	ACUTE	CHRONIC
Arsenic	7440382	1.000	1.000
Cadmium	7440439	1.136672 – 0.041838 lnH	1.101672 – 0.041838 lnH
Copper	7440508	0.960	0.960
Lead	7439921	1.46203 – 0.145712 lnH	1.46203 – 0.145712 lnH
Mercury	7439976	0.85	N/A
Nickel	7440020	0.998	0.997
Silver	7440224	0.85	N/A
Zinc	7440666	0.978	0.986

APPENDIX H. BENEFICIAL USE DESIGNATIONS FOR CERTAIN LIMITED AREAS OF GROUNDWATER [REVOKED]

APPENDIX H. BENEFICIAL USE DESIGNATIONS FOR CERTAIN LIMITED AREAS OF GROUNDWATER [NEW]

A. Within Oklahoma there are some bodies or areas of groundwater the quality of which is not suitable for the beneficial uses that are designated on a default basis in OAC 785:45-7-3(b). In most cases this unsuitability is caused by natural conditions or irreversible human-induced impacts such as pollution. Consequently, it is necessary to provide for beneficial use designations for these limited areas of groundwater which are more accurate and appropriate than the default designations in 785:45-7-3(b). The absence of an area of a groundwater formation from this appendix does not indicate that area is free from contamination or has quality suitable for any beneficial use.

B. The groundwater formations or portions thereof that require special designations are identified in the tables that follow in this Appendix. The groundwater formations or units are identified by their name (e.g., "Garber Wellington") and legal description (e.g., "2-4, 9-11, 13-16 T2N R20W " denoting section(s), Township and Range). The area identified may be localized and not necessarily inclusive of the entire hydrogeologic basin or groundwater formation. The tables also set forth a general description of the physical location above the groundwater formation or unit for use as a general point of reference. The tables also set forth columns to show the groundwater classifications and beneficial uses which are designated for each identified area of groundwater. A "Depth Zone" also is indicated, to which the beneficial uses and "Remarks" listed in following columns are applicable.

C. Designations of beneficial uses for an identified groundwater formation or portion thereof are reflected in the tables by the presence of a dot ("•") in the columns to the right of the groundwater name and location. An empty space in a column means that column's beneficial use or subcategory thereof is not designated for that groundwater. Groundwater not identified in this Appendix is subject to the default designations detailed in OAC 785:45-7-3.

D. The state environmental agency that requested the groundwater formation or unit to be so identified and designated with certain beneficial uses and/or limitations is shown in the column headed "Agency". A specific division within that agency may also be listed. Questions relating to the quality of the groundwater found in any particular formation or unit, or concerns related to any comment in the "Remarks" column, should be addressed to the agency denoted in the "Agency" column.

E. The presence of any comment in the "Remarks" column denotes special circumstances which are applicable only to the groundwater formation or unit so identified. These comments may refer to certain constituents of the groundwater at that location, special well construction requirements, or other information deemed pertinent by the agency that requested this listing.

F. Definitions

"ACOG" means Association of Central Oklahoma Governments

"Corp Comm" means Oklahoma Corporation Commission

"DEQ" means Oklahoma Department of Environmental Quality

"SEP" means Supplemental Environmental Projects

"RCRA" means Resource Conservation and Recovery Act

"VCP" means Voluntary Cleanup Program

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Garber-Wellington (Thunderhead Hills)	W 1/2 of W 1/2 Sec. 20, T14N, R2W, IM; W 1/2 of NW 1/4 & NW SW 1/4 Sec. 29, T14N, R2W, IM.	Along and ¼ mile east of Coltrane from Danforth Rd to Sherrywood Rd, Edmond, Oklahoma County	85 – 200 ft. deep; ¼ mile wide by at least 1 ¾ mile long	2		•		Corp Comm, Oil & Gas Division, & ACOG	Brine plume moving south about 80 ft/year. Case/cement new wells through upper affected zone.
Garber-Wellington (Double Eagle / 4 th St Superfund site)	SE 1/4 Sec. 35, T12N, R3W, IM & SW 1/4 Sec. 36, T12N, R3W, IM.	Oklahoma County	0 – 160 ft.	2		•	•	DEQ	Brine, chlorinated solvents and hydrocarbons. Special well construction required.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Boone (Tar Creek Superfund site)	Sec. 13, 14, 23, 24, 25, 26, 35, & 36 of T29N, R22E, IM. Sec. 13-36 of T29N, R23E, IM. Sec. 17-19, W 1/2 Sec. 20, W 1/2 Sec. 29, & Sec. 30-32 of T29N, R24E, IM. Sec. 1, E 1/2 Sec. 2, E 1/2 Sec. 11, Sec. 12, N 1/2 Sec. 13, NE 1/4 Sec. 14 all in T28N, R22E, IM. Sec. 1, W 1/2 Sec. 5, Sec. 6, Sec. 7, W 1/2 Sec. 8, NW 1/4 Sec. 17, N 1/2 Sec. 18 all in T28N, R23 E, IM, W 1/2 Sec. 5, Sec. 6 all in T28N, R24E, IM.	Ottawa County	0 – 350 ft.	2	•	•	•	DEQ, Land Protection Division	Acidic conditions, mine voids, and toxic metals (lead, cadmium and arsenic exceeding MCLs) may be present in the Boone aquifer. Therefore special protective well construction is required to seal off the Boone to protect the underlying Roubidoux aquifer. For Boone wells, competent groundwater testing for toxic metals is required for potable and domestic use; and treatment may be required when groundwater exceeds the MCLs for lead (15 µg/l), arsenic (10 µg/l), or cadmium (5 µg/l).

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Quaternary Terrace (Kingfisher Wellhead Protection Area)	Sec. 33, SW 1/4 Sec. 36 in T18N, R7W, IM. SW 1/4 Sec. 1, NW 1/4 & S 1/2 Sec. 2, N 1/2 Sec. 3, N 1/2 Sec. 4, NE 1/4 Sec. 11, & Sec. 12 all in T17N, R7W, IM.	Kingfisher County	0 – 100 ft.	1	•	•	•	DEQ	Zone 1 Wellhead Protection Area - No pollution sources
Southwestern Oklahoma (Altus AFB area)	Sec. 34-36 in T3N, R20W, IM. Sec. 1-3, Sec. 10-15, & Sec. 22-24 all in T2N, R20W, IM.	North of US 62, eastern edge of City of Altus and entire AFB, Jackson County	0 – 60 ft.	3		•	•	OWRB	TCE & by-products - Remediation activity in-place
Ogallala (Dobson Ranch)	One square acre within NW 1/4 Sec. 17, T11N, R26W, IM.	State Highway 152, approx. four miles west of Sweetwater, OK, Roger Mills County	0 – 20 ft.	2	•	•	•	DEQ – VCP	Restriction on groundwater use within the 1 square mile recorded on a deed notice due to Benzene contamination. See DEQ or county clerk for location details
Quaternary Terrace Deposits – (Cornerstone Shopping Center)	SE 1/4 Sec. 16, T12N, R4W, IM, Approx six (6) acres of WEST PARK ADDITION to Oklahoma County, Oklahoma.	3900 N. MacArthur Avenue, Oklahoma City, Oklahoma County, Oklahoma	0 – 22 ft.	2	•	•	•	DEQ – VCP	Tetrachloroethylene - Deed restriction on file. See DEQ or county clerk for location details.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Alluvium & Terrace Deposits – (OKC Urban Renewal, Phase I)	21.6 acres of the NW 1/4 Sec. 3, T11N, R3W, IM.	An area bounded to the South of Reno Avenue, East of the BNSF railroad tracks, North of Interstate 40/or its replacement street and west of a line extended from Stiles Avenue to Interstate 40/or its replacement street in Oklahoma City, Oklahoma County, Oklahoma.	0 – 30 ft.	2	•	•	•	DEQ – VCP	Deed restriction on groundwater use. See DEQ or county clerk for location details.
Coffeyville Formation (Compass Industries Landfill Superfund site)	SE NE 1/4 & NE SE 1/4 Sec. 13, T19N, R11E, IM, & S 1/2 of NW 1/4 & N 1/2 of SW 1/4 Sec. 18, T19N, R12E, IM.	7600 W 26th St, Tulsa, Tulsa County, Oklahoma	0 – 105 ft.	2	•	•	•	DEQ – Superfund	Deed restriction on groundwater use for any purpose. See DEQ or county clerk for location details.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Weatherford Member of the Cloud Chief Formation & Rush Springs Sandstone Formation (Oklahoma Refining Company Superfund site)	S 1/2 of SW 1/4 Sec. 18, T5N, R9 W1M, & NW 1/4 Sec. 19, T5N, R9W, IM, & NW 1/4 Sec. 19, T5N, R9 W, IM, & SE SE 1/4 Sec. 13, T5N, R10W, IM and E 1/2 of NE 1/4 of NE 1/4 Sec. 24, T5N, R10W, IM.	South Baskett St, Cyril, Caddo County, Oklahoma	0 – 145 ft.	2	•	•	•	DEQ – Superfund	Deed restriction on disturbing landfill caps & on groundwater use for any purpose due to hydrocarbon contamination. See DEQ or county clerk for location details.
North Canadian Alluvium (Tenth Street Superfund site)	2.931 acres in the NW 1/4 Sec. 31, T12N, R2W, IM.	3200 NE 10th St Oklahoma City, Oklahoma County, Oklahoma	0 – 20 ft.		•	•	•	DEQ – Superfund	Deed restriction on drilling of any type of wells through the landfill cap or into the landfill. See DEQ or county clerk for location details.
North Canadian Alluvium and Garber (Mosley Road Landfill Superfund site)	71.765 acres in NE 1/4 Sec. 21, T12N, R2W, IM.	Mosley Road Between NE 23 & NE 36 Oklahoma City, Oklahoma County, Oklahoma	0 – 150 ft.	2	•	•	•	DEQ – Superfund	Restriction on groundwater use for any purpose. See DEQ or county clerk for location details.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Tallant Formation (Blackstar Performance)	SE 1/4 Sec. 25, T20N, R8E, IM & NE 1/4 Sec. 25, T20N, R8E, IM.	East of Highway OK-48, about 4 miles north of Highway OK-51 intersection, in Terlton, Pawnee County, Oklahoma	0 – 30 ft., depth of contamination not yet defined.	2	•	•	•	DEQ – RCRA	1,1,1-Trichloroethane & 1,1-Dichloroethane - Depth of contamination unknown, private wells to 200 feet are impacted. See DEQ for additional details.
N. Canadian Terrace Deposits underlain by Hennessey Group (OKC Solvent Plume)	Approximately 80 acres in NE 1/4 Sec. 27, T12N, R4 W, IM & NW 1/4 Sec. 27, T12N, R4W, IM.	Between NW 23rd and NW 19th and N Meridian and Ann Arbor, Oklahoma City, Oklahoma County, Oklahoma	0 – 30 ft., depth of contamination not yet defined.	2	•	•	•	DEQ – SEP	Tetrachloroethylene (max. 1200 ppb) & Trichloroethylene (max. 35 ppb) - Plume not delineated; private wells impacted. See DEQ for details.
Garber-Wellington (Eagle Industries)	Approximately 6 acres in SE 1/4 Sec. 7, T11N, R1W, IM.	North of SE 29th & West of Westminster Road, Midwest City, Oklahoma County, Oklahoma	0 – 50 ft., depth of contamination not yet defined.	2	•	•	•	DEQ – RCRA	Trichloroethylene (max 2280 ppb) - Plume not delineated. See DEQ for details.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
East Central Oklahoma bedrock	SE SE SE 1/4 Sec. 5, T7N, R9E, IM.	Hughes County	200 ft. deep; aerial extent unknown	2	•	•	•	Corp Comm, Oil & Gas Division	Brine affecting aquifer. Disposal well offsetting old (now plugged) oil well was the most likely conduit.
Garber-Wellington Sandstone Formation	NW SE 1/4 Sec. 1, T9N, R2E, IM.	Pottawatomie County	160 – 200 ft. deep; 20 Acres	2	•	•	•	Corp Comm, Oil & Gas Division	Brine affecting aquifer. Now plugged disposal well was the most likely source.
Rush Springs Sandstone, Marlow Formation (Cyril Plume)	Portions of Sections 1 & 12, T5N, R10W, IM & Sec. 6 & 7, T5N, R9W, IM & Sec. 36, T6N, R10W, IM & Sec. 31, T6N, R9W, IM.	2-3 miles north of Cyril, Caddo County.	Up to 450 ft. deep; some saline groundwater discharge into Little Washita River tributaries; ~960 acre plume	2	•	•	•	Corp Comm, Oil & Gas Division	~960 acre plume moving S-SW @ 90'/year; 30 year monitoring program started in 1999. Cyril municipal wells affected were abandoned.
Blaine (Drummond Flats)	NE 1/4 Sec. 33, T22N, R8W, IM.	From NE corner of Drummond 4 miles north, 1 west, 1 south and 3/8 west. Near Turkey creek.	20 – 50 ft. in affected wells.	2	•	•	•	Corp Comm, Oil & Gas Division	Drummond Flats, water has historical contamination.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Terrace Deposits (Drummond Flats)	SW 1/4 Sec. 12, R21N, R9W, IM.	From Ames, 1/2 mile east, 4 miles north, 3 3/4 east, north into site.	About 40 ft. deep in affected wells.	2	•	•	•	Corp Comm, Oil & Gas Division	Drummond Flats, water has historical contamination.
Arkansas River Alluvium (Sand Springs Petrochemical Superfund site)	W 1/2 of NW 1/4 Sec. 13, T19N, R11 E, IM & NW 1/4 Sec. 14, T19N, R11E, IM.	Tulsa County	0 – 37 ft.	2		•	•	DEQ	Metals, VOC - Special Well Construction Required.
North-Central Oklahoma (former Farmland Feedmill site)	36.26 acres in SW/4 Sec. 19, T22N, R6W, IM.	3013 South Van Buren Street, Enid, Garfield County, Oklahoma	0 – 30 ft. depth of contamination not defined.	2	•	•	•	DEQ, Water Quality Division	Restriction on groundwater use due to nitrate contamination. Nitrate concentrations exceed drinking water standards. Therefore, drinking water wells should not be constructed in this area. See DEQ Water Quality Division for location details.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Vanoss Group (Hudson Refinery Superfund site)	NE NW 1/4 Sec. 4, T17N, R5E, IM & SW 1/4 Sec. 33, T18N, R5E, IM.	Payne County	18 – 168 ft.	2	•	•	•	DEQ, Land Protection Division	Deed restriction was filed with county prohibiting groundwater use for any purpose due to hydrocarbon contamination. See DEQ-Land Protection Division or county clerk for location details.
North-Central Oklahoma (Blackwell Zinc Company (“BZC”) site)	Portions of Sec. 14, 15, 16, 21, 22, 23, 26, 27 & 28, T27N, R1W, IM. Generally located to the north and south between 500 ft. north of Doolin Avenue and Adams Avenue and to the west and east between 21st Street and 200 ft. east of Main Street, City of Blackwell	Kay County	0 – 40 ft.	2	•	•	•	DEQ, Land Protection Division	City of Blackwell Ordinance No. 2801 prohibiting installation of groundwater wells within the groundwater protective area due to cadmium, & zinc contamination. Contact DEQ Land Protection Division or city for location details.

Amendments Proposed by OWRB Staff as of 11/15/2012

Groundwater Formation Name (Site name)	Location	Address	Depth Zone (upper-lower limit) feet	Class* (1-4)	Water Supply	Ag	M&I	Agency	Remarks
Hennessey Shale/Garber-Wellington	NE NE 1/4 Sec. 31, T14N, R3W, IM.	West of the intersection of N. 178 th Street & Pennsylvania, Oklahoma County	0 – 50 ft.	2	•	•	•	Corp Comm, ACOG, & OWRB	Chloride impacted groundwater in upper zone of Hennessey Shale/Garber-Wellington formations, case and cement to a depth of 50 ft.
Rush Springs Aquifer (Putnam-Oswego former Gas Plant)	NW NW NW 1/4 Sec. 35, T16N, R16W, IM & NE NE NE 1/4 Sec. 34, T16N, R16W, IM.	SE & SW corners of intersection of County Road N2310 & County Road E0820 in Putnam, Dewey County, Oklahoma	0 – 50 ft.	2	•	•	•	Corp Comm	Petroleum hydrocarbons impacting shallow aquifer. Case off from zero to fifty (0-50) ft. below ground surface, completing any water well below this zone
Arbuckle-Simpson	612.5 square miles in Murray, Pontotoc, Johnston, Garvin, Coal and Carter Counties			1	•	•	•	OWRB	